

Graduation Ceremonies

24 - 27 March

Gradeplegtighede

24 - 27 Maart

2025

Our vision 2040

Stellenbosch University will be Africa's leading research-intensive university, globally recognised as excellent, inclusive and innovative, where we advance knowledge in service of society.

Our mission

Stellenbosch University is a research-intensive university, where we attract outstanding students, employ talented staff and provide a world-class environment; a place connected to the world, while enriching and transforming local, continental and global communities.

Umbono Wethu 2040

IYunivesithi yaseStellenbosch iya kuba yiyunivesithi egxininisa kuphando nekhokelayo eAfrika, neyamkelwa kwihlabathi lonke njengegqwesileyo, equkayo neyenza inguqulelo ezintsha, nalapho ulwazi olusiqhubela phambili lunika iinkonzo kuluntu.

Ubizo lwethu

IYunivesithi yaseStellenbosch yiyunivesithi egxininise kuphando nalapho sitsala abafundi abagqwesileyo, siqesha abasebenzi abanesiphiwo kwaye sibonelela ngemeko ekwinqanaba lehlabathi; indawo eqhagamshelana nehlabathi, ngeli lixa ityebisa ngophuhliso kwaye iguqula uluntu lwendawo, elizwekazi nolwehlabathi.

Ons visie 2040

Die Universiteit Stellenbosch sal Afrika se voorste navorsingsintensiewe universiteit wees wat wêreldwyd as uitnemend, inklusief en innoverend erken word en waar ons kennis tot diens van die samelewing bevorder.

Ons missie

Die Universiteit Stellenbosch is 'n navorsings-intensiewe universiteit wat uitmuntende studente lok, talentvolle personeel aanstel en 'n wêreldklasomgewing bied; 'n plek wat met die wêreld verbind is en gemeenskappe plaaslik, op die vasteland en in die res van die wêreld verryk en transformeer.

In its commitment to transformation and redress, Stellenbosch University has renewed its academic attire. Discover more about this significant process:

Ekuzibopheleleni kwayo kwinguqu nolungiso, iYunivesithi yaseStellenbosch iye yahlaziya isinxibo sayo sezifundiswa. Fumana banzi ngale nkqubo ibaluleke kangaka: As beliggaming van die instelling se verbintenis tot transformasie en regstelling het die Universiteit Stellenbosch ons akademiese drag vernuwe. Vind meer oor hierdie betekenisvolle proses uit:





Mr Lesetja Kganyago Chancellor | Kanselier

Dear Stellenbosch University graduates,

Today is a celebration of your dedication, perseverance, and the dreams that have brought you to this moment. Graduation is not just about reaching the finish line—it is about opening new doors, embracing new opportunities, and stepping forward with confidence into the future you have worked so hard to build.

Stellenbosch University is known for producing individuals who make a real difference in the world. Now, as you step into this next phase of your journey, you join a global family of Maties who are shaping industries, strengthening communities, and creating a better future for all.

Your qualification is more than a personal achievement—it is a responsibility. You have the knowledge, skills, and character to contribute meaningfully to society. Whether you lead, innovate, or serve, always stay true to your values and let your integrity guide you.

I have no doubt that you will go on to do great things. Keep learning, keep growing, and never stop believing in the power of your own potential.

Congratulations on this incredible achievement. Stellenbosch will always be a part of you, and you will always be a Matie.

Warm regards,

Lesetja Kganyago

Chancellor

Beste gegradueerdes van die Universiteit Stellenbosch,

Vandag vier ons jou harde werk, jou deursettingsvermoë en die drome wat jou tot hierdie oomblik gebring het. Gradeplegtigheid gaan nie net oor die voltooiing van 'n reis nie, maar oor die opening van nuwe deure, die aangryp van geleenthede en die selfvertroue waarmee jy jou toekoms tegemoetgaan.

Die Universiteit Stellenbosch het 'n trotse geskiedenis van gegradueerdes wat 'n werklike verskil maak. Vandag sluit jy aan by 'n wêreldwye gemeenskap van Maties wat bedrywe hervorm, gemeenskappe versterk en 'n beter toekoms vir almal skep.

Jou kwalifikasie is meer as 'n persoonlike prestasie—dit is 'n verantwoordelikheid. Jy het die kennis, vaardighede en karakter om sinvol tot die samelewing by te dra. Of jy nou lei, innoveer of dien, bly getrou aan jou waardes en laat integriteit jou rig.

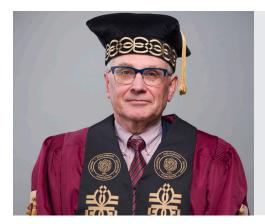
Ek twyfel nie vir 'n oomblik dat jy buitengewone dinge sal bereik nie. Hou aan leer, hou aan groei, en glo altyd in die krag van jou eie potensiaal.

Baie geluk met hierdie ongelooflike prestasie. Stellenbosch sal altyd deel van jou wees, en jy sal altyd 'n Matie bly.

Hartlike groete,

Lesetja Kganyago

Kanselier



Prof Wim de Villiers

Rector and Vice-Chancellor | Rektor en Visekanselier

Dear Matie,

Congratulations on this remarkable milestone! Your dedication, perseverance, and passion for learning have led you to this proud moment, and it is an honour to celebrate your success with you today.

Your qualification from Stellenbosch University is more than just a certificate—it is a testament to your hard work and a key that unlocks a world of possibilities. SU's legacy of excellence continues through graduates like you, who leave a lasting impact wherever they go.

As you embark on this next chapter, I encourage you to carry forward SU's core values – excellence, compassion, accountability, respect, and equity. These guiding principles will serve you well as you shape your future and contribute meaningfully to society.

Please stay connected with your alma mater through our extensive global alumni network. Stellenbosch will always be your academic home, and we look forward to seeing the incredible things you will accomplish.

Wishing you every success in your journey ahead!

Prof Wim de Villiers

Rector and Vice-Chancellor

Beste Matie,

Baie geluk met hierdie merkwaardige mylpaal! Jou toewyding, deursettingsvermoë en passie vir leer het jou tot hierdie trotse oomblik gebring, en dit is 'n eer om vandag jou sukses saam met jou te vier.

Jou kwalifikasie van die Universiteit Stellenbosch is meer as net 'n sertifikaat—dit is 'n bewys van jou harde werk en 'n sleutel tot 'n wêreld van moontlikhede. Die US se nalatenskap van uitnemendheid leef voort deur gegradueerdes soos jy, wat 'n blywende impak maak waar hulle ook al gaan.

Soos jy hierdie volgende hoofstuk betree, moedig ek jou aan om die US se kernwaardes uit te leef – uitnemendheid, deernis, aanspreeklikheid, respek en billikheid. Hierdie riglyne sal jou dien as jy jou toekoms vorm en op 'n betekenisvolle manier tot die samelewing bydra.

Bly asseblief verbind met jou alma mater deur ons uitgebreide globale alumni-netwerk. Stellenbosch sal altyd jou akademiese tuiste wees, en ons sien uit daarna om te sien watter ongelooflike dinge jy sal bereik.

Ek wens jou alle sukses toe op jou pad vorentoe!

Prof Wim de Villiers

Rektor en Visekanselier

Chancellor | Kanselier

EL Kganyago BCom, MSc (Oxon), DCom (hc) (Stell), DCom (hc) (NMU)

Chairperson of Council | Voorsitter van die Raad

NF Newton-King, BA LLB, LLM, LLD (hc) (Stell)

Rector and Vice-Chancellor | Rektor en Visekanselier

Prof WJS de Villiers, MBChB, MMed (Int), DPhil, MHCM, DSc (hc) (Coventry), FCP (SA), MASSAf, FAGA

Chief Operating Officer | Uitvoerende Bedryfshoof

Prof SA du Plessis, BComHons, MPhil, PhD

Deputy Vice-Chancellor (Social Impact, Transformation and Personnel)

Viserektor (Sosiale Impak, Transformasie en Personeel)

Prof NN Koopman, BA, MTh, DTh

Deputy Vice-Chancellor (Learning and Teaching) | Viserektor (Leer en Onderrig)

Prof D Ramjugernath, BScEng, PhD, MASSAf, FAAS, FSAAE

Deputy Vice-Chancellor (Research, Innovation and Postgraduate Studies)

Viserektor (Navorsing, Innovasie en Nagraadse Studies)

Prof S Moyo, BSc, BScHons, MSc, MTEM, PhD

Acting Deputy Vice-Chancellor (Strategy, Global and Corporate Affairs)

Waarnemende Viserektor (Strategie, Globale en Korporatiewe Sake)

Prof MS Tshehla, MSc, PhD

Registrar | Registrateur

Dr P Retief, MA, DLitt

Deans | Dekane

Arts and Social Sciences | Lettere en Sosiale Wetenskappe

Prof V Roodt, BA, BAHons, MA, DPhil

Science | Natuurwetenskappe

Prof BC Fielding, BSc, BScHons, PhD, MPhil

AgriSciences | AgriWetenskappe

Prof D Brink, BScHons, MScAgric, PhD

Education | Opvoedkunde

Prof MR Madiba, DLitt et Phil

Law | Regsgeleerdheid

Prof N Smit, BLC, LLB, LLD

Economic and Management Sciences | Ekonomiese en Bestuurswetenskappe

Prof SPJ von Wielligh, BAcc, BAccHons, MAcc, PhD, CA(SA) (acting)

Engineering | Ingenieurswese

Prof JL van Niekerk, MEng, PhD, EMBA

Medicine and Health Sciences | Geneeskunde en Gesondheidswetenskappe

Prof EM Muller, MBChB, MMed, FCS (SA), MRCS (Ed), FACS, PhD

Military Science | Krygskunde

Dr FL Monama, BA, HED, HonsBA, MA, MPhil, PhD (acting)

Theology | Teologie

Prof RW Nel, BA, BTh, MTh, DTh

Always a Matie

Congratulations and welcome to the Stellenbosch University alumni family! Your graduation is a momentous occasion and marks the beginning of your continued relationship with your alma mater. The Alumni Office is your lifelong connection to the University. Be sure to join fellow graduates after your faculty graduation ceremony for an exciting networking champagne celebration at the Alumni Clubhouse located at Die Stal where we will toast to your future success. Walk across with family and friends from Coetzenburg to Die Stal to celebrate your graduation!

There are many ways to stay connected. Please update your latest contact details via <u>alumni@sun.ac.za</u> in order for us to continue to keep in touch with you.

Homecoming Weekend

The University's Homecoming and Family Weekend takes place from Thursday 11 September to Saturday 13 September 2025 on the Stellenbosch campus. Information is available at www.matiesalumni.com.

Join Maties Connect

Our www.matiesconnect.com platform will help you increase your professional network, find a job opportunity, advertise your business, search for a mentor, reach out to alumni, and keep up to date on what's happening at your alma mater.

Be part of an Alumni Chapter

The University's Development and Alumni Relations team establish alumni chapters both locally and internationally to connect alumni in specific regions with one another through regular networking and social events - both online and in person. For more information on how to join or to volunteer and participate in a chapter, send an e-mail to alumnihubs@sun.ac.za.

Give back to a fellow Matie!

As we celebrate your remarkable achievements today, we also look ahead to the future. **Join us on 16 April 2025**, for Stellenbosch University Giving Day – a chance to give back and make a difference for future Maties. Your generosity can help empower the next generation of students and ensure the continued success of our university community. More information is available at www.matiesgivingday.com.

I-Matie ngalo Lonk' ixesha

Sivuyisana nawe kwaye wamkelekile kusapho olungabo babesakufunda kwiYunivesithi yaseStellenbosch! Ukuthweswa kwakho isidanga lixesha apha elakha labaluleka, kwaye likwalixesha eliphawula ukuqalisa kwakho ubudlelwane obuqhubekayo kunye nale yunivesithi owawusakufunda kuyo. IOfisi yabo Babesakuba Ngabafundi Apha yiyo ekunxulumanisa neYunivesithi ubomi bakho bonke. Emva komsitho wothwesozidanga wefakhalthi yakho, qinisekisa ukuba uhlangana nabanye oogxa bakho abaphumeleleyo kumbhiyozo weshampeyini omyoli wokwakha ubuhlobo phaya kwiAlumni Clubhouse eseDie Stal, apho siya kukuthi jize khona ngeminqweno emihle yempumelelo kwixesha elizayo. Wela ukusuka eCoetzenburg ukuya eDie Stal uthe chu ngcembe nezalamane nabahlobo ukuya kubhiyozela ukuthweswa kwakho isidanga!

Zininzi iindlela zokuhlala uqhagamshelekile. Sicela uthumele inkcukhaca zakho ku <u>alumni@sun.ac.za</u> ukuze siqhagamshelane nawe.

IMpelaveki yoBuyelekhaya ubekunye noSapho

IMpelaveki yoBuyelekhaya ubekunye noSapho eyenzelwe abo babesakufunda apha yenzeka ukusuka ngoLwesine umhla we-11 kwinyanga yoMsintsi ukuya kutsho ngoMgqibelo umhla we-13 kweyoMsintsi 2025 kwikhampasi yaseStellenbosch. Iingcombolo ezithe vetshe zifumaneka ku-www.matiesalumni.com.

Joyina i-Maties Connect

Iqonga lethu le-www.matiesconnect.com liza kukunceda ekwandiseni inani leengcali onxibelelana nazo, ukufumana amathuba omsebenzi, ukwazisa ishishini lakho, ukufuna umcebisi onamava, ekufikeleleni kwabanye ababefunda apha nasekubeni uhlale usazi ngokwenzekayo ngale yunivesithi owawusakufunda kuyo.

Yiba yinxalenye yeQela labo baBesakuba ngaBafundi balapha

Iqela loPhuhliso nezoNxibelelwano lwabo baBesakuba ngaBafundi balapha lisungula amaqela abo babesakuba ngabafundi apha netshapta zawo naza kuzinza kweli lizwe nakwamanye amazwe ukuze kunxibelelwane ngabo babesakuba ngabafundi apha abakwiingingqi ezithile oko kusenziwa ngokunxibelelana rhoqo nangendibano zasekuhlaleni nge-intanethi nangobuso ngobuso. Ukuba ufuna iinkcukacha ezithe vetshe malunga nendlela yokujoyina okanye yokuvolontiya nokuthatha inxaxheba kwiqela okanye itshapta ehlabathini, thumela i-imeyili ku alumnihubs@sun.ac.za.

Ukupha enye iMatie!

Njengoko sibhiyozela impumelelo yakho emangalisayo namhlanje, sikwajonge phambili kwikamva. Sijoyine kumhla **we16 kuTshazimpuzi ka2025**, kuSuku lokuPhisa lweYunivesithi yaseStellenbosch – ithuba lokupha nokwenza umahluko kwiMaties zexesha elizayo. Ububele bakho bunokunceda ukuxhobisa isizukulwana esilandelayo sabafundi kunye nokuqinisekisa impumelelo eqhubekayo yoluntu lwethu lweYunivesithi. Ulwazi olubanzi luyafumaneka kuwww.matiesgivingday.com.

Altyd 'n Matie

Geluk en welkom in die Universiteit Stellenbosch se alumni-familie! Jou gradeplegtigheid is 'n belangrike mylpaal, en ook die begin van jou voortgesette verbintenis met jou alma mater. Die Alumni-kantoor is jou lewenslange skakel met die Universiteit. Sluit gerus ná jou fakulteit se gradeplegtigheid by jou mede-graduandi aan vir 'n opwindende netwerkgeleentheid by die Alumni-klubhuis in Die Stal, waar ons 'n glasie sjampanje op julle toekomstige sukses sal klink. Stap sommer saam met familie en vriende van Coetzenburg af oor na Die Stal toe om jou graduering te vier!

Daar is vele maniere om in kontak te bly. Kontak ons by alumni@sun.ac.za om jou jongste kontakbesonderhede by te werk.

Tuiskomsnaweek

Die Universiteit se Tuiskomsnaweek vir alumni vind vanaf Donderdag 11 September tot Saterdag 13 September 2025 op die Stellenboschkampus plaas. Inligting is by www.matiesalumni.com beskikbaar.

Sluit aan by Maties Connect

Ons www.matiesconnect.com-platform saljou help om jou professionele netwerk uit te brei, 'n werkgeleentheid te vind, jou besigheid te adverteer, vir 'n mentor te soek, alumni te kontak, en op die hoogte van gebeure by jou alma mater te bly.

Wees deel van 'n Alumni-tak

Die Universiteit se Ontwikkeling en Alumnibetrekkinge-span vestig plaaslike en internasionale alumni-takke om alumni in spesifieke streke met mekaar in verbinding te bring deur gereelde netwerk- en sosiale geleenthede aan te bied – aanlyn en in persoon. Vir meer inligting oor hoe om aan te sluit, as vrywilliger op te tree en wêreldwyd aan 'n tak deel te neem, stuur 'n e-pos aan alumnihubs@sun.ac.za.

Gee terug aan 'n mede-Matie!

Waar ons vandag julle merkwaardige prestasies vier, kyk ons ook vorentoe, nadie toekoms. **Sluit op 16 April 2025 by ons aan** vir die Universiteit Stellenbosch se Skenkingsdag – 'n geleentheid om terug te gee en 'n verskil vir toekomstige Maties te maak. Julle vrygewigheid kan die volgende geslag studente help bemagtig en die voortgesette sukses van ons universiteitsgemeenskap verseker. Nog inligting is by www.matiesgivingday.com beskikbaar.

forward together sonke siya phambili saam vorentoe

Graduation Ceremonies | Gradeplegtighede

1. 24 March | Maart 2025 (10:00)

9

Faculty of Arts and Social Sciences (Group 1) | Fakulteit Lettere en Sosiale Wetenskappe (Groep 1)

BA (Development and Environment); BA (Human Resource Management); BA (Humanities); BA (International Studies); BA (Political, Philosophical and Economic Studies); BA (Social Dynamics); BA (Socio-Informatics); BA (Sport Science); BDatScience; PGDip (Public Mental Health); PGDip (Social Science Methods); PGDip (Transdisciplinary Health and Development Studies); PGDip (Applied Ethics); PGDip (Disaster Risk Studies and Development); PGDip (Knowledge and Information Systems Management); PGDip (Monitoring and Evaluation); PGDip (Research Management and Administration); BInfHons; BAHons (Geography and Environmental Studies); BAHons (Geographical Information Systems); BAHons (History); BAHons (International Studies); BAHons (Philosophy); BAHons (Political Science); BAHons (Psychology); BAHons (Social Anthropology); BAHons (Sociology); M (Urban and Regional Planning); MPhil (Applied Ethics); MPhil (Decision-Making and Knowledge Dynamics); MPhil (Disaster Risk Science and Development); MPhil (Information and Knowledge Management); MPhil (Monitoring and Evaluation Methods); MPhil (Public Mental Health); MPhil (Science and Technology Studies); MPhil (Transdisciplinary Health and Development Studies); MPhil (Urban and Regional Science); MA (Clinical Psychology); MA (Geographical Information Systems); MA (Geography and Environmental Studies); MA (History); MA (International Studies); MA (Philosophy); MA (Political Science); MA (Psychology); MA (Public Sociology and Anthropology); MA (Socio-Informatics); MA (Sociology); MA (Social Anthropology); MA (Social Science Methods); PhD (Applied Ethics); PhD (Decision-Making and Knowledge Dynamics); PhD (Evaluation Studies); PhD (Geography and Environmental Studies A); PhD (History); PhD (Philosophy); PhD (Political Science); PhD (Psychology); PhD (Science and Technology Studies); PhD (Social Anthropology); PhD (Social Science Methods); PhD (Socio-Informatics); PhD (Sociology); PhD (Urban and Regional Planning); PhD (Urban and Regional Science)

Doctoral Qualifications | Doktorale Kwalifikasies

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Other Qualifications | Ander Kwalifikasies

13

2. 24 March | Maart 2025 (14:00)

17

Faculty of Arts and Social Sciences (Group 2) | Fakulteit Lettere en Sosiale Wetenskappe (Groep 2)

HCert (Music); Dip (Practical Music Studies); AdvDip (Practical Music); B Social Work; BA (Drama and Theatre Studies); BA (Visual Arts); BA (Language and Culture); BA (Law); B Music; BA (Music); PGDip (Second-Language Studies); PGDip (Technology of Language Learning); PGDip (Intercultural Communication); PGDip (Film Music); PGDip (Music Technology); BMusHons; BAHons (African Languages); BAHons (African Languages for Professional Contexts); BAHons (Afrikaans and Dutch); BAHons (Ancient Cultures); BAHons (Ancient Languages); BAHons (Chinese); BAHons (Drama and Theatre Studies); BAHons (English Studies); BAHons (French); BAHons (General Linguistics); BAHons (German); BAHons (Journalism); BAHons (Music); BAHons (Translation); BAHons (Language Practice); BAHons (Visual Arts Illustration); BAHons (Visual Studies); M (Social Work); MMus; MPhil (Film Music); MPhil (Music Technology); MA (African Languages); MA (African Languages for Professional Contexts); MA (Afrikaans and Dutch); MA (Ancient Cultures); MA (Ancient Languages); MA (Creative Writing); MA (Drama and Theatre Studies); MA (English Studies); MA (French); MA (General Linguistics); MA (German); MA (Intercultural Communication); MA (Second Language Studies); MA (Journalism); MA (Lexicography; MA (Translation); MA (Technology of Language Learning); MA (Visual Arts); MA (Visual Arts) (Art Education); MA (Visual Studies; PhD (African Languages); PhD (Afrikaans and Dutch); PhD (Ancient Cultures); PhD (Ancient Languages); PhD (Comparative Literature); PhD (Drama and Theatre Studies); PhD (English Studies); PhD (French); PhD (General Linguistics); PhD (German); PhD (Journalism); PhD (Lexicography); PhD (Music); PhD (Social Work); PhD (Translation); PhD (Visual Arts)

Honorary Doctorate	Eredoktorsgraad
Jonathan Kenneth Butler	

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Other Qualifications | Ander Kwalifikasies

Doctoral Qualifications | Doktorale Kwalifikasies

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3.	25 March Maart 2025 (09:00)	25
	Faculty of Medicine and Health Sciences Fakulteit Geneeskunde en Gesondheidswetenskappe	
	Doctoral Qualifications Doktorale Kwalifikasies	27
	Other Qualifications Ander Kwalifikasies	35
4.	25 March Maart 2025 (13:00)	39
	Faculty of Science Fakulteit Natuurwetenskappe	
	Honorary Doctorate Eredoktorsgraad Philemon Mphathi Mjwara	41
	Doctoral Qualifications Doktorale Kwalifikasies	42
	Other Qualifications Ander Kwalifikasies	48
5.	25 March Maart 2025 (17:00)	51
	Faculty of AgriSciences Fakulteit AgriWetenskappe	
	Doctoral Qualifications Doktorale Kwalifikasies	53
	Other Qualifications Ander Kwalifikasies	59
6.	26 March Maart 2025 (09:00)	61
	Faculty of Economic and Management Sciences (Group 1) Fakulteit Ekonomiese en Bestuurswetenskappe (Groep 1)	
	BCom (Industrial Psychology); BCom (International Business); BCom (Law); BCom (Management Sciences); BCom; PGDip (Marketing); PGDip (HIV/AIDS Management); PGDip (Strategic Human Resource Management); PGDip (Transport and Logistics); BComHons (Business Management); BComHons (Financial Risk Management); BComHons (Human Resources Management); BComHons (Industrial Psychology); BComHons (Logistics Management); BComHons (Mathematical Statistics); BComHons (Operations Research); BComHons (Statistics); BComHons (Transport Economics); MPhil (HIV/AIDS Management); MCom (Business Management); MCom (Financial Risk Management); MCom (Human Resources Management); MCom (Industrial Psychology); MCom (Logistics Management); MCom (Mathematical Statistics); MCom (Operational Research); MCom (Quantitative Management); MCom (Statistics); MCom (Taxation); MCom (Transport Economics); PhD (Business Management); PhD (HIV/AIDS Management); PhD (Industrial Psychology); PhD (Logistics); PhD (Logistics Management); PhD (Mathematical Statistics); PhD (Transport Economics); PhD (Operational Research); PhD (Statistics)	
	Doctoral Qualifications Doktorale Kwalifikasies	63
	Other Qualifications Ander Kwalifikasies	65
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	Faculty of Economic and Management Sciences (Group 2)	
	Fakulteit Ekonomiese en Bestuurswetenskappe (Groep 2)	
	BAcc: BCom (Actuarial Sciences): BCom (Economic Sciences): BCom (Financial Accounting): BCom (Management	

BAcc; BCom (Actuarial Sciences); BCom (Economic Sciences); BCom (Financial Accounting); BCom (Management Accounting); PGDip (Accounting); PGDip (Actuarial Science); BComHons (Actuarial Science); BComHons (Economics); BComHons (Management Accounting); BAccHons; MAcc; MCom (Actuarial Science); MCom (Computer Auditing); MCom (Economics); PhD (Accounting); PhD (Agricultural Economics); PhD (Economics)

Doctoral Qualifications | Doktorale Kwalifikasies

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Other Qualifications | Ander Kwalifikasies

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Faculty of Economic and Management Sciences (Group 3) | Fakulteit Ekonomiese en Bestuurswetenskappe (Groep 3)

Dip (Public Accountability); Dip (Sustainable Development); AdvDip (Public Accountability); AdvDip (Sustainable Development); PGDip (Business Management and Administration); PGDip (Development Finance); PGDip (Environmental Management); PGDip (Financial Planning); PGDip (Futures Studies); PGDip (Leadership Development); PGDip (Project Management); PGDip (Public Financial Management); PGDip (Sustainable Development); BPubAdminHons; BComHons (Public and Development Management); MPA; MPhil (Development Finance); MPhil (Environmental Management); MPhil (Futures Studies); MPhil (Management Coaching); MPhil (Leadership Coaching); MPhil (Sustainable Development Planning and Management); MCom (Public and Development Management); MBA, PhD (Business Management and Administration); PhD (Development Finance); PhD (Futures Studies); PhD (Public and Development Management); PhD (Sustainable Development Planning and Management)

	Doctoral Qualifications Doktorale Kwalifikasies	81
	Other Qualifications Ander Kwalifikasies	84
9.	27 March Maart 2025 (09:00)	91
	Faculty of Law Fakulteit Regsgeleerdheid	
	Doctoral Qualifications Doktorale Kwalifikasies	93
	Other Qualifications Ander Kwalifikasies	95
	Faculty of Military Science Fakulteit Krygskunde	
	Other Qualifications Ander Kwalifikasies	97
10.	27 March Maart 2025 (13:00)	99
	Faculty of Engineering Fakulteit Ingenieurswese	
	Doctoral Qualification Doktorale Kwalifikasie	101
	Other Qualifications Ander Kwalifikasies	110
11.	27 March Maart 2025 (17:00)	115
	Faculty of Education Fakulteit Opvoedkunde	
	Doctoral Qualifications Doktorale Kwalifikasies	117
	Other Qualifications Ander Kwalifikasies	118
	Faculty of Theology Fakulteit Teologie	
	Doctoral Qualifications Doktorale Kwalifikasies	119
	Other Qualifications Ander Kwalifikasies	121
12.	National anthem Nasionale volkslied	122

Faculty of Arts and Social Sciences (Group 1)

24 March 2025 | 10:00

Fakulteit Lettere en Sosiale Wetenskappe (Groep 1)

24 Maart 2025 | 10:00

Programme

Please stand 1. Entrance of academic procession into the hall.

Please stand 2. Playing of the National Anthem.

Please sit 3. Congregation formally constituted by the Vice-Chancellor.

4. Welcome by the Vice-Chancellor.

5. Presentation of candidates receiving qualifications by the dean of the faculty and conferment of qualifications by the Vice-Chancellor.

6. Closing by the Vice-Chancellor.

Please stand 7. The academic procession leaves the stage.

Program

Staan asseblief 1. Akademiese prosessie kom die saal binne.

Staan asseblief 2. Speel van die Nasionale Lied.

Sit asseblief 3. Formele konstituering deur die Visekanselier.

4. Verwelkoming deur die Visekanselier.

5. Voorstelling van kandidate wat kwalifikasies ontvang deur die dekaan van die fakulteit en toekenning van kwalifikasies deur die Visekanselier.

6. Sluiting deur die Visekanselier.

Staan asseblief 7. Akademiese prosessie verlaat die verhoog.

Faculty of Arts and Social Sciences (Group 1) Fakulteit Lettere en Sosiale Wetenskappe (Groep 1)

DOCTORAL QUALIFICATIONS | DOKTORALE KWALIFIKASIES

DOCTOR OF PHILOSOPHY DOKTOR IN DIE WYSBEGEERTE

EDER, Cheryl Joy (Psychology)

Transgender and non-binary people's experience of living with endometriosis

Endometriosis is a disease that has a devastating impact on people's lives. Yet little is known about how endometriosis affects gender-diverse people. This study explores the lived experience of eleven transgender and non-binary people with endometriosis. Data were collected by means of three individual, semi-structured interviews and a three-month diary, and were hermeneutically analysed. Participants reported experiencing layers of isolation in relation to their gender and endometriosis, as well as poor healthcare experiences. This study makes an important contribution to the field by highlighting the experiences of a marginalised group.

Supervisor: Prof R Roomaney

JACOBS, Nathaneal Sidney (Urban and Regional Science)

The spatiality of neighbourhood crime and the role of urban planning: the case of Mitchells Plain, Cape Town

This study investigates the complex interrelationships between Mitchells Plain's built environment, socioeconomic factors, and crime patterns and trends. It employs a mixed-methods approach, including spatial statistical analysis, a survey of residents' perceptions, and an in-depth policy review. Results reveal that principles of crime prevention through environmental design (CPTED) can reduce crime, but must be paired with strategies addressing socioeconomic issues. Tackling high crime rates in the area will require both macrolevel (citywide) and micro-level (neighbourhood-specific) solutions. A summary framework of planning guidelines is recommended to improve both the physical environment and socioeconomic conditions to reduce crime in Mitchells Plain and similar neighbourhoods.

Supervisor: Dr DJ du Plessis

MAKHETHA, Trevor (Sociology)

Love, learning and identity at New Hope: a critical ethnographic study of how young coloured men construct and perform race, masculinity and sexuality at a Northern Cape high school

A 13-month ethnographic study of young coloured men who negotiate prevailing social norms in the town and school of New Hope reveals that the men's behaviours are either welcomed through agreement, laughter and bodily expressions, or rejected through silence, cajoling and othering. This leads to behavioural adjustments or exaggerations, informed by their audiences' reactions. Audiences are actively engaged in the behaviour rather than being mere consumers thereof. The study argues that social identities are co-produced through 'audiensciousness', describing the dynamic involvement of actors and audiences in young men's behaviour and the production of their social identities, and the social meanings the men attach to these.

Supervisor: Prof K Fakier

NTOMBELA, Nomzamo Portia (Sociology)

""Owabani loMkhonto? (Whose Spear is this?)": An interdisciplinary study of the conceptions of liberation within the Women's Sections in exile, 1969-1997"

This study considers the work of women's sections of the African National Congress (ANC) and Pan Africanist Congress (PAC) in exile, particularly in Southern Africa, between 1969 and 1997. It argues for paying attention to women's practices in developing conceptions of liberation. Using a feminist oral history methodology and an array of written sources, the study reveals disjunctures between ANC and PAC policy positions and exiled women's lived experiences. The women's experiences reveal their role as political organisers and intellectuals, and how they developed liberation theories that remain salient for the struggles that women still face in democratic South Africa.

Supervisor: Prof BD Dubbeld Co-supervisor: Dr J Pearce

RADEMAN, Daniel Johannes Rouxan (History)

A comparison on the development of adaptive strategies during three drought events in the Calvinia and Vanrhynsdorp districts over the 20th and 21st centuries

This study evaluates the impact of socioeconomic changes, government policies and non-governmental drought relief efforts on the development of long-term resilience to drought events in the former districts of Calvinia and Vanrhynsdorp during the three extreme drought periods of 1924–1934, 1960–1969 and 2014–2020. It finds that socioeconomic change connected to each drought period was driven by developments in infrastructure, technology, governmental policy, and farming methods. As a result, by the 21st century, reduced government support combined with growing climate change impacts required proactive planning and innovative and flexible farming practices to adapt to conditions.

Supervisor: Prof WP Visser

VILYTE, Gabriele Beata (Psychology)

Psychogenic non-epileptic seizure (PNES) patient profiles in two Western Cape epilepsy monitoring units, and their utility in PNES diagnosis

This study addresses the challenge of accurately diagnosing psychogenic non-epileptic seizures (PNES) in South Africa, where limited access to video EEG (electroencephalography) – the gold standard for diagnosis – leads to frequent misdiagnoses as epilepsy, resulting in inappropriate treatments and financial strain. Through a retrospective chart review, the study develops clinical profiles of PNES patients in the Western Cape and explores the use of patient-reported data for a diagnostic tool. Using machine learning on data from a public hospital, a clinical decision tool is created, yielding an 86% accuracy rate. The research enhances the local understanding of PNES and offers a step towards improved diagnosis.

Supervisor: Prof C Pretorius

Faculty of Arts and Social Sciences (Group 1) Fakulteit Lettere en Sosiale Wetenskappe (Groep 1)

OTHER QUALIFICATIONS | ANDER KWALIFIKASIES

Master of Arts Magister in die Lettere en Wysbegeerte

Alberts, Kira Campbell (Political Science) *(cum laude)*Bennett, Ashwin Alistair (Geography and Environmental Studies)

Brown, Felicia (Clinical Psychology)

Carstens, Charl Terence (Psychology)

Carzola, Dario (Philosophy) (cum laude)

Conradie, Pieter (Philosophy) (cum laude)

Davids, Gita Angelica (History) (cum laude)

Don, Kerscher (Psychology)

Du Toit, Martha Johanna (Psychology)

Everett, Sarah Lynn (Psychology)

Flatela, Sinovuyo (Philosophy)

Forster, Courtney Paige (Political Science)

Francke, Andrea Bridgette (Political Science)

Goosen, Melissa (Psychology) (cum laude)

Hendricks, Aspen (Psychology)

Joorst, Laylah Jade (Political Science)

Kellerman, Mia Rita (Psychology)

Kerruish, Gennifer Skye (Psychology) (cum laude)

Labuschagne, Genevieve Irene (Political Science)

Lottering, Monique Nicole (Geography and Environmental Studies)

McCallum, Jessica Joy (Political Science)

Molepo, Moshibudi Yolanda (Clinical Psychology)

Mouton, Antoinette (Social Anthropology) (cum laude)

Myburgh, Lizè (Sociology) (cum laude)

Nzimande, Xolani (Socio-Informatics)

Pillay, Deveshani (Psychology)

Sawula, Bukeka (Psychology)

Shatona, Longeni (Political Science)

Simpson, Ceilidh Wendy Gwynnyth (Philosophy) *(cum laude)*

Tsokodibane, Kereeditse Optima (History)

Van As, Stepheny (Political Science)

Van der Walt, Marcus Coert (Political Science)

Van Dyk, Rouxnell (Psychology) (cum laude)

Van Niekerk, Gerhard (Political Science) (cum laude)

Van Niekerk, Jodie (Psychology) (cum laude)

Van Veijeren, Nine-Marie (Philosophy) (cum laude)

Van Wyk, Chad (Socio-Informatics) (cum laude)

White, Tayla Shayne (History) (cum laude)

Woode-Smith, Caitlin Melissa (Psychology) (cum laude)

Master of Arts in Public Sociology and Anthropology Magister in die Lettere en Wysbegeerte in Openbare Sosiologie en Antropologie

Van der Linde, Michaela (Public Sociology and Anthropology)

Van Huyssteen, Ava Rina (Public Sociology and Anthropology)

Master of Philosophy Magister in die Wysbegeerte

Adonis, Lee-Ann Samantha (Disaster Risk Science and Development)

Amekye, Slyvia Nyakallo (Monitoring and Evaluation Methods)

Beukes, Ryno van Dyk (Urban and Regional Science)

De Villiers, Maryke (Applied Ethics) (cum laude)

Dlongwana, Thandokazi (Monitoring and Evaluation Methods)

Du Plessis, Susanna Johanna (Information and Knowledge Management)

Dube, Sabelo Renaissance (Disaster Risk Science and Development)

Govender, Melissa (Science and Technology Studies) (cum laude)

Kebane Molete, Mamello (Monitoring and Evaluation Methods)

Keiller, Lianne (Monitoring and Evaluation Methods) Kgosiyame, Nametso (Information and Knowledge Management)

Khahla, Azuzile (Monitoring and Evaluation Methods)

Kotze, Carla (Applied Ethics) (cum laude)

Mabeba, Pontsho Betty (Monitoring and Evaluation Methods)

Majiri, Alois (Monitoring and Evaluation Methods) Maloma, Molefe Collins (Information and Knowledge

Management)
Marais, Mia (Applied Ethics) *(cum laude)*

Masitise, Motsabi Elizabeth (Applied Ethics)

Matai, Bheki (Monitoring and Evaluation Methods)

Matiso, Luzuko (Urban and Regional Science)

Mditshwa, Siviwe (Monitoring and Evaluation Methods)
Meyer, Dominique Michelle (Science and Technology
Studies)

Mosimege, Kelebogile Geoginah (Information and Knowledge Management)

Nkomo, Phumelele Ntokozo (Applied Ethics)

Phungo, Roshuma (Applied Ethics) (cum laude)

Ramatsoma, Hlologelo Mphulo (Applied Ethics) *(cum laude)*

Rossouw, Nina (Applied Ethics)

Sekamogeng, Naphtaly Oageng Tiego (Monitoring and Evaluation Methods)

Seshabela, Selina Mabale (Monitoring and Evaluation Methods)

Shewell, Daniel Paul (Applied Ethics)

Simon, Natalie (Science and Technology Studies)

Sintu, Siyachuma Sandisiwe (Disaster Risk Science and Development)

Sixabayi, Awonke (Urban and Regional Science)

Tsedu, Mbengeni Thomas (Science and Technology Studies)

Tshinavhe, Alilali Pashy (Monitoring and Evaluation Methods)

White, Debbie Ann (Applied Ethics) *(cum laude)*Xalabile, Thumeka Faith (Monitoring and Evaluation Methods)

Master of Urban and Regional Planning Magister in Stads- en Streeksbeplanning

Adendorff, Rudi (Urban and Regional Planning) Matuba, Bohlale Thuto (Urban and Regional Planning) Scholtz, Alexander David (Urban and Regional Planning) Van Harte, Kauthar (Urban and Regional Planning)

Bachelor of Arts Honours Honneurs-Baccalaureus in die Lettere en Wysbegeerte

Banda, Banele (Psychology)

Barnaschone, Nicholas Mark (Philosophy) Blanckenberg, Kelly Roslynne (Sociology) Buckland, Rachel Ann (Philosophy) *(cum laude)* Kilbourn, Megan (Philosophy) *(cum laude)*

Maritz, Jessica Anita (Philosophy) (cum laude) Mbandezelo, Mihl'Emihle (Philosophy)

Madeler Marie Marie (Diller relea) (2002 /

Mulder, Marize Maria (Philosophy) (cum laude)

Murray, Katherine Alice (Philosophy)
Olifant, Siyethemba Nonjabulo (Sociology)

Smith, Lara Jane (Philosophy)

Tulleners, Jacqueline (Philosophy) (cum laude) Van den Berg, Roeland Herman (Philosophy) Watson, Bea (Philosophy) (cum laude)

Bachelor of Informatics Honours (Information System Management)

Honneurs-Baccalaureus in Informatika (Informasiestelselbestuur)

Beyleveld, Jeremy Luke

Postgraduate Diploma in Applied Ethics Nagraadse Diploma in Toegepaste Etiek

Maraka, Ditaba Lucy

Pieterse, Reneshlynne Valmay Tzellios, Martha *(cum laude)*

Postgraduate Diploma in Knowledge and Information Systems Management

Nagraadse Diploma in Kennis- en Inligtingstelselbestuur

Davies, Annestatia Nadine Kube, Jacobeth Malebo Mlangeni, Khomotso Toboti, Kimathi Bulumko

Postgraduate Diploma in Monitoring and Evaluation Nagraadse Diploma in Monitering en Evaluering

Bangeni, Siyasanga

Brown, Lisa Tarryn *(cum laude)* Farirai, Caroline Varaidzo Nellisa Isaac, Precious Jansen, Rhyno

Kahonde, Callista Kanganwiro (cum laude)

Kanerusine, Luis

Kolatsoeu, Mojalefa Carrington Komane, Itumeleng Rahabba

Kose, Motlatsi Vincent

Mahlangu, Thoko

Malinga, Mbuso

Manda, Duduzile Eunice Mantshiyane, Vuyani Mokoena, Thabo George

Moody, Daniel (cum laude)

Mpofana, Nyameka Ndaleni, Lwandile

Nhlapo, Yvonne Dieketseng

Nkwentsha, Cwayita

Nyambo, Patrick

Pakkies, Thokozani Philile

Rakeketsi, Lesole Andrew

Seleso, Ketsitseng

Shatilwe, Joyce Twahafifwa

Sivela, Asanda Lucy Stafane. Unathi Patience

Bachelor of Arts Baccalaureus in die Lettere en Wysbegeerte

Aba, Abigail

Adonis, Keisha Caitlin

Alberts, Michaela Danielle

Alexander, Kayleigh

Amos, Kai Eli Linden

Andries, Gianca-Lee

Arendse, Kirstin Zoe

Arendse, Matthew Craig

Aucamp, Miquette

Baines, Megan Elizabeth

Bezuidenhout. Matthew Sergio

Bizaare, Amy Danielle

Bodibe, Katlego

Bopoto, Kudakwashe Michelle

Borrett. Jenna

Bradfield, Astin-Rose

Bredenhann, Carla

Britz, Christian

Brown, Olivia Anne

Burchell, Sian Regan Georgina

Burét, Amy

Burgess, Cameron Marion

Burnett, Margo Cairns, Shannon

Callaghan, Caitlyn Lauren

Cekiso, Lwazi

Cengimbo, Ntombentle

Chauk, Khudiso

Chikane, Palesa Bebe

Chordnum, Sammy

Clayton, Hakeem

Coertzen, Cheri

Connelly, Jordan

Da Fonseca, Danielle Linda

Davids, Jessica De Kock, Andrea Dick, Emma

Dlamini, Makhosazana Owothembela

Dlamini, Thembela Douman, Deolene Dube, Thabane Ebrahim, Jameel Eia, Hannah

Erasmus, Aneche Zoe Evans, Juanita Chanel

Everson, Dane

Fernandez, Shaneece Tarlia

Gafieldien, Sarah

Gibson, Byron Christopher

Goodsell, Ryan

Graaff, David Peter Berkeley De Villiers

Gubhela, Ayabulela Hall, Hannah Helen Hansen, Logan Casey Hartnick, Megan Hollinshead, Jessica Holmes, Jade Lyzanne

Holtrop, Elina Hunt, Lucy Jaca, Sisiphiwo Jaftha, Cally

Johnson, Keanu Damon Jones, Taelynn Tamia

Jonkers, Azraa

Jonsson, Abigail Louise Joubert, Barend Jacobus Julius, Miche Reta Kanayo, Zintle Anita Kapp, Junell Keyser, Erin Selma Knott, Tammin Kordoghli, Rozalia

Kriel, Zoe Kuo, Reagan

Lintnaar, Janica Marrily Losper, Quaani-ah Louw, Danré Lubbe, Marelize Maharaj, Raeeza Malema, Mpho Maputi, Zamachwama

Kraak, Kristan Nicole

Marrison, Catherine Alice Robertson

Martin, Angelo Dean Mazibuko, Senzakahle Mbambo, Lati-Tah Mc Carthy, Martin Luke

Mccann, Erin McCarthy, Jessica Mgqashule, Mokgadi Miya, Waratwa Zanokuhle

Mneno, Sihle

Mokoena, Tsheqofatso Arletta

Molokoane, Kagiso

Morake, Letlhogonolo Kagiso

Mpukane, Nosiviwe

Mthari, Nomsa Mthembu, Sivuyile Mthimkulu, Andile Murray, Jade

Naroth, Uzair Ahmed Neethling, Shakiel Ngomane, Lungile Carol Ngwenyama, Mcedisi Fortune

Ntulini, Banele Shane Ockhuis, Xeniah Zoe Okafor, Nambitha Phaho, Keabetswe

Pooe, Maselino Alberto Neo Pusch, Laura Michelle Quin, Jemma Jean Retief, Talita-Vera Rhoda, Jordyn Cassidy Rose, Preston George Ruckard, Giorgia Raffael Saaiman, Christi-Ann

Salie. Taahir

Samamad, Jasmin Ubisse Savage, Luke Jonathan Schmidt, Theolene Selai, Zamantungwa Serfontein, Amy Shabab, Hawa Sisya, Hope

Siwela, Yonela Nontle

Solomon, Alex Stafans, Esihle Steenveld, Courteney Stephen, Mihlali Steyn, Layla Stubbs, Jayde

Swanepoel, Abigail Jo-nica

Swart, Saul-Marco Sylvester, Azrea Yasmine

Tancred, Hugo Andreas (cum laude)

Thomas, Alex Jade

Thomas, Scott Skyler Kingston

Thorne, Stella Trout, Sadie

Turner, Stephanie Eileen

Twigg, Hannah

Useni, Enaidah Lee Sharon

Uys, Lafras Johan Van der Merwe, Ariska Van der Riet, Kai-Denni Van Niekerk, Janneke Van Niekerk, Meghann Van Tonder, Anne Van Zyl, Meriska Vevile, Siphumle Walton, Danelle Wolfaardt, Goldien

Wood, Tess Rosalind Hellier

Zulu, Siphiwe

forward together sonke siya phambili saam vorentoe

Faculty of Arts and Social Sciences (Group 2)

24 March 2025 | 14:00

Fakulteit Lettere en Sosiale Wetenskappe (Groep 2)

24 Maart 2025 | 14:00

Programme

Please stand 1. Entrance of academic procession into the hall.

Please stand 2. Playing of the National Anthem.

Please sit 3. Congregation formally constituted by the Vice-Chancellor.

4. Welcome by the Vice-Chancellor.

5. Presentation of candidate for the honorary doctorate and conferment of the degree by the Vice-Chancellor.

6. Presentation of candidates receiving qualifications by the dean of the faculty and conferment of qualifications by the Vice-Chancellor.

7. Closing by the Vice-Chancellor.

Please stand 8. The academic procession leaves the stage.

Program

Staan asseblief 1. Akademiese prosessie kom die saal binne.

Staan asseblief 2. Speel van die Nasionale Lied.

Sit asseblief 3. Formele konstituering deur die Visekanselier.

4. Verwelkoming deur die Visekanselier.

5. Voorstelling van die eredoktorandus en toekenning van die eredoktorsgraad deur die Visekanselier.

6. Voorstelling van kandidate wat kwalifikasies ontvang deur die dekaan van die fakulteit en toekenning van kwalifikasies deur die Visekanselier.

7. Sluiting deur die Visekanselier.

Staan asseblief 8. Akademiese prosessie verlaat die verhoog.

Honorary Doctorate | Eredoktorsgraad

FACULTY OF ARTS AND SOCIAL SCIENCES FAKULTEIT LETTERE EN SOSIALE WETENSKAPPE

The degree Doctor of Philosophy (DPhil), honoris causa, to Die graad Doktor in die Wysbegeerte (DPhil), honoris causa, aan

Jonathan Kenneth Butler

for his musical influence and contributions to arts and culture as a composer, songwriter and performer, and his dedication to creating platforms that ensure access to the arts for young people from marginalised communities.

Although he lived under the shadow of Apartheid and faced hardship while growing up in Athlone, Cape Town, Jonathan Kenneth Butler was one of the first artists of colour to be played on South African radio and appear on national television at a time of severe racial segregation. He later became one of the key voices in the international arena advocating for the release of Nelson Mandela and other political prisoners.

Having already made a name for himself in Africa and the United Kingdom (UK), it was not until 1987, when he toured as pop star Whitney Houston's opening act, that Butler was noticed in the United States. His final breakthrough came that same year with his Grammy-nominated hit single "Lies", which reached #27 on Billboard's Hot 100 chart and peaked at #18 on the UK Official Singles Chart. Around that time, his and Ruby Turner's cover version of the Staple Singers song "If You're Ready (Come Go with Me)" also reached #30 in the UK. He has continued his success with the release of over 28 albums including several gospel projects, with one that features the revered "Falling In Love with Jesus".

Despite his international acclaim, Butler has remained true to his roots. He is the first Global Entertainment Ambassador for the Lalela Foundation, which provides educational arts for at-risk youth. Through its arts curriculum and critical messaging, Lalela directly serves more than 5 000 South African learners per week.

Butler continues to make popular music in multiple genres and tours the world. On his latest album, *Ubuntu*, he realised another dream of having iconic artist Stevie Wonder perform on his cover version of Wonder's song "Superwomen".

vir sy musikale invloed en bydraes tot kuns en kultuur as 'n komponis, liedjieskrywer en kunstenaar, en sy toegewyde werk om platforms te skep wat sorg dat jongmense uit gemarginaliseerde gemeenskappe toegang tot die kunste ontvang.

Al het hy onder die skadu van apartheid en te midde van swaarkry in Athlone, Kaapstad, grootgeword, was Jonathan Kenneth Butler in 'n tyd van streng rasseskeiding een van die eerste gekleurde kunstenaars op Suid-Afrikaanse radio en televisie. Hy het later een van die sterkste stemme geword wat internasionaal voorspraak gedoen het vir die vrylating van Nelson Mandela en ander politieke gevangenes.

Hoewel hy reeds in Afrika en die Verenigde Koninkryk (VK) naam gemaak het, was dit eers in 1987, toe hy as openingskunstenaar saam met popster Whitney Houston getoer het, dat Butler in die Verenigde State raakgesien is. Daardie selfde jaar maak hy finaal sy deurbraak met sy Grammy-benoemde treffer-enkelsnit "Lies", wat nommer 27 op die Billboard Hot 100-treffersparade was en by nommer 18 op die VK se Official Singles Chart gaan draai het. Sy en Ruby Turner se weergawe van die Staple Singers se liedjie "If You're Ready (Come Go with Me)" het ook in daardie tyd nommer 30 op die treffersparades in die VK gehaal. Hy sit sy sukses voort met die vrystelling van meer as 28 albums, insluitende verskeie gospelprojekte, met een wat die eerbiedige "Falling In Love with Jesus" bevat.

Ondanks sy internasionale sukses bly Butler getrou aan sy wortels. Hy is die eerste Globale Vermaaklikheidsambassadeur vir die Lalela-stigting, wat opvoedkundige kunsprogramme vir hoërisikojeug aanbied. Met hulle kunskurrikulum en relevante boodskappe bedien Lalela weekliks meer as 5 000 Suid-Afrikaanse leerders.

Butler gaan voort om populêre musiek in verskeie genres te maak en toer deur die wêreld. Op sy jongste album, *Ubuntu*, het hy nog 'n droom verwesenlik, naamlik om saam met die ikoniese kunstenaar Stevie Wonder op te tree in sy weergawe van Wonder se liedjie "Superwomen".

Faculty of Arts and Social Sciences (Group 2) Fakulteit Lettere en Sosiale Wetenskappe (Groep 2)

DOCTORAL QUALIFICATIONS | DOKTORALE KWALIFIKASIES

DOCTOR OF PHILOSOPHY DOKTOR IN DIE WYSBEGEERTE

BIYELA, Siphesihle Nonkanyiso (Visual Arts)

Reimagining and reigniting confidence in intermediate phase pre-service teachers through their approach to Visual Arts education

This study explores pedagogical approaches to building capacity and confidence in Intermediate Phase Visual Arts student teachers in South Africa through a decolonial lens. Student teachers' confidence and capacity are influenced by prior exposure to art, complexities in negotiating sociocultural diversity and processes, development, and ownership. They struggle with hidden longings, feelings of shame and deprivation, finding their own voice and safe spaces for expression, embracing imperfections, teamwork, and community-building. Inclusive pedagogical strategies for Visual Arts teacher training are proposed to build future teachers' capacity and confidence to help negotiate local societal challenges.

Supervisor: Dr K Perold-Bull

BOTHA, Yolanda (Musiek)

Bimodale bewussyn en die liedere van Taizé: Arthur Deikman se psigologiese teorieë in liturgiese praktyk

Hierdie studie ondersoek die gebruik van liturgiese aanpassings om tot geestelike verryking in die Gereformeerde erediens by te dra. Die projek behels verskeie benaderings en het 'n sterk teoretiese grondslag, wat aangevul word deur persoonlike besinning. Elemente soos meditatiewe musiek, verlengde stilte en die gebruik van simbole en rituele uit die Taizé-tradisie word krities beskou as katalisators van geestelike verryking. Arthur J. Deikman se psigologiese teorieë dien as teoretiese raamwerk om die doeltreffendheid van hierdie elemente te bepaal. Die gevolgtrekkings word gestaaf met waarnemings, oordenking, die insameling van kwalitatiewe en kwantitatiewe data, en terugvoer van respondente.

Promotor: Prof MD Nell

DREYER, Louise Ivette (General Linguistics)

Afrikaans construction markers: a case for linguistic skeuomorphism

This exploratory study seeks to describe and motivate the existence of a novel subtype of morphological formative – the 'skeuomorph'. The study focuses on eight constructional idioms in Afrikaans that contain so-called 'construction markers', which are elements that have no other (morphosyntactic) purpose except to form part of a construction. The inherent mismatch between the form and (lack of) function of such formatives poses a problem for morphological theory. The study suggests that, in lieu of 'construction markers', these morphological formatives are better termed 'skeuomorphs', being remnants of linguistic structure that were formerly indispensable, but now perform the work of nostalgia.

Supervisor: Dr K Huddlestone

GOUWS, Andries Jacobus (Journalism)

Redefining the public sphere on the shifting boundaries of journalism: a netnography of community deliberation on Facebook about Potchefstroom

The ongoing seismic shifts in journalism as practice and profession necessitate innovative academic approaches to exploring the field. This study advances theoretical understandings of journalism by including peripheral actors deliberating in the public sphere. These actors extend the boundaries of traditional, normative understandings of journalism by creating information in the public interest on, for instance, social media platforms. Through an immersive netnography of Facebook pages focused on the city of Potchefstroom, the study confirms that people's public deliberation on news affecting their local community correlates with the work of legacy journalists – thus expanding understandings of journalistic roles.

Supervisor: Dr M Jordaan

GROENEWALD, Joani (Visual Arts)

Conversations with place: an autoethnographic exploration of art jewellery as translative practice in Groot Drakenstein, South Africa

This study explores the potential of translation to extend beyond traditional text by incorporating sensory and experiential transformation. Positioned at the intersection of art jewellery and translation studies, this practice-based project explores how jewellery objects can serve as meaningful markers of place and identity, revealing the intricate connections between humans and their natural environment. The study highlights the significance of sensory-rich scholarship that promotes new perspectives on translation as a creative and embodied endeavour. This emphasises the need for more diverse engagements with the South African landscape and the histories it holds.

Supervisors: Prof RWE van der Wal Co-supervisors: Prof B Willems (external), Drs K Wuytens (external), C Terreblanche

GULTZOW, Runa Simone (General Linguistics)

Placement events in the bilingual mind: The verbal and gestural expression of placement by Afrikaans-English bilinguals

This study examines how bilingual speakers of Afrikaans and English talk and gesture about placement events. Specifically, it investigates whether Afrikaans-specific and English-specific patterns are kept separate or used in a hybrid fashion in bilingualism. The research starts by establishing how monolingual English and Afrikaans speakers talk and gesture about placement, and then compares this with bilinguals with different language learning backgrounds through controlled elicitation. The findings show that bilinguals may behave like monolingual speakers when they talk about placement, but not when they gesture about it. This suggests a unique conceptual representation of placement in the bilingual mind.

Supervisor: Prof ENE Bylund-Spångberg Co-supervisor: Prof M Gullberg (external)

HLUNGWANE, Mmanape Mosana (Lexicography)

A model for a bilingual online Sotho linguistics special field dictionary for higher education

The digital era presents challenges and opportunities for African language lexicography, enabling the compilation of high-quality online dictionaries. Focusing on dictionaries of African languages, this study proposes a theoretical model for a specialised Sepedi dictionary of linguistics, with Sepedi and English as language pair. The results rely on insights from the general theory of lexicography, the theory of lexicographic functions, and the theory of onomasiology. The study enriches the field of metalexicography and lays the groundwork for an improved lexicographic practice. The scope of the proposed model also goes beyond the Sotho languages and could benefit all African languages.

Supervisor: Prof RH Gouws Co-supervisor: Prof JC Roux

JONAS, Khanyiso (General Linguistics)

The role of isiXhosa noun classes in cognitive processing

This study investigates whether noun classes in isiXhosa have any cognitive consequences, specifically for similarity judgements and recognition memory. This is done in three experiments in which first-language speakers of isiXhosa and first-language speakers of English are systematically compared during different cognitive tasks that involve categorisation and memory. Because the adult isiXhosa speakers are also fluent in English, a group of isiXhosa-speaking children was recruited to examine the potential effect of English language influence on cognition. It is found that isiXhosa noun classes have a minimal effect on cognitive processing, and that this effect diminishes as English proficiency increases.

Supervisor: Prof ENE Bylund-Spångberg Co-supervisors: Dr R Berghoff, Prof M Motinyane (external)

LIEBENBERG, Deon (Visuele Kunste)

Gereformeerdheid, modernisme en abstraksie in Leo Theron se werk in glas vir die Nederduitse Gereformeerde Kerk

Hierdie studie ondersoek Leo Theron se abstrakte glaskuns in die konteks van Afrikaanse Gereformeerde spiritualiteit en modernisme. Theron se werk verken die spanning tussen Protestantse teologie en modernistiese abstraksie, en pas internasionale estetiese tradisies aan vir 'n plaaslike kultuur. Die studie toon hoe sy gebruik van kleur, lig en vorm spirituele betekenis dra sonder figuratiewe voorstelling, en hoe sy kuns 'n unieke uitdrukking is van moderniteit in die Afrikaanse kerkgeskiedenis. Deur teologie, kunsgeskiedenis en filosofie te verweef, plaas die studie Theron se werk binne 'n breër gesprek oor geloof, moderniteit en visuele kuns.

Promotor: Prof SJVZ Muller Medepromotor: Prof W Froneman LIEBENBERG, Irma (Musiek)

Die buitenetwerk van Afrikaanse vroue-kinderliedjiekomponiste: 'n biografie van konneksies

Hierdie studie ondersoek die lewens en bydraes van sewe Afrikaanse vroue-kinderliedjiekomponiste wie se werke in die FAK-Sangbundel opgeneem is. Dit analiseer hoe hulle uiteenlopende benaderings tot kinderopvoeding en musiekonderrig deur hulle persoonlike ervarings, ideologieë en professionele netwerke gevorm is. Sommige komponiste het speelse, kindgesentreerde musiek geskryf, terwyl ander 'n meer nasionalistiese of opvoedkundige doel gehad het. Deur argiefnavorsing, persoonlike onderhoude en Akteur-Netwerk-Teorie ondersoek die studie hoe hierdie vroue se musiek ontvang en versprei is. Dit bied 'n nuwe perspektief op Afrikaanse musiekgeskiedenis en die invloed van institusionele magstrukture op musiekonderrig.

Promotor: Prof W Froneman

MINTER, Lobke (English Studies)

Speculative Gothic fiction and the scar as trauma trope: imagining hope through horror

This groundbreaking study theorises the wound as trauma trope by focusing on three speculative Gothic novels in which current anxieties about ecological crises and fears of a global collapse are configured as forms of traumatic wounding. Yet the novels also deploy the scar as an alternative, more hopeful metaphor for post-traumatic healing that is unsentimental in its potentiality. By centralising the scar, the study engages with wounds and practices of healing and resistance, asking what a reparative engagement with injury looks like physically, emotionally and ecologically. The study thus makes an original contribution to the intersecting fields of Gothic and trauma studies.

Supervisor: Dr J Ellis

MUTSVAIRO, Jack (African Languages)

Strategic Manoeuvring in Zimbabwean political deliberations: A pragma-dialectical and appraisal theory approach

Political argumentation by Parliamentarians in Africa is an under-researched field of discourse analysis. This study investigates the argumentative discourse of Zimbabwean government ministers, members of Parliament (MPs) and political party representatives during question time sessions in Parliament and political radio interviews. It analyses and evaluates the strategic manoeuvring in the argumentation of ministers and MPs during these deliberations. The findings indicate that ministers use either complex pragmatic or complex problem-solving argumentation in defence of their prescriptive standpoints when having to explain and justify government policies. These results contribute new insights to pragma-dialectical and appraisal research on Zimbabwean political discourse.

Supervisor: Prof M Dlali

VAN DER MERWE, Anke Irene (Afrikaans en Nederlands)

'n Diakroniese korpusondersoek na die voorkoms van laatwerk in die poëtiese oeuvre van Breyten Breytenbach

Hierdie studie ondersoek Breyten Breytenbach se poëtiese oeuvre om te bepaal of sekere verskuiwings oor tyd heen opgelet kan word wat as tekens van laatwerk bestempel sou kon word – werk wat tipies gelewer word deur ouer kunstenaars, of diegene wat hulle in die skadu van die dood bevind. 'n Korpusgebaseerde benadering waarin literêre en statistiese metodes versmelt, word ingespan om aspekte van styl, identiteit en tema te ondersoek. Besliste tekens van laatwerk word aangetref in Breytenbach se latere oeuvre, maar ook in sy tronkwerk, wat lei tot die postulering van 'n verdere vergestalting van laatwerk wat deur trauma meegebring word.

Promotor: Dr A Marais

orriotor. Bi / triaiais

VAN DER MERWE, Kanja Susan (Vertaling)

'n Tolkaanleerstrategiemodel uit taalaanleerstrategieë vir prosesgerigte tolkopleiding

Hierdie kwalitatiewe beskrywende studie ondersoek die skep van tolkaanleerstrategieë uit taalaanleerstrategieë vir tolking as komplekse kommunikasiedaad en selfgereguleerde leerproses. Ná sorgvuldige bespreking word 'n tolkaanleerstrategiemodel met 61 tolkaanleerstrategieë uit Oxford (1990) se 62 taalaanleerstrategieë herskep, soos verdeel in direkte geheue-, kognitiewe en kompensasiestrategieë, en indirekte metakognitiewe, affektiewe en sosiale strategieë, en indirekte metakognitiewe, affektiewe en sosiale strategieë. Daarbenewens word ál 61 strategieë met die oog op Cohen (1996; 2011) se strategiegebaseerde onderrig na ander strategiefunksies en in strategiekettings en -klusters uitgebrei. Die tolkaanleerstrategiemodel kan in die tolkklaskamer, tolkpraktyk én deur die hele tolkloopbaanreis gebruik word om sowel die tolkaanleerproses as die tolkproses op sigself te optimeer.

Promotor: Dr EM Adendorff
Medepromotor: Prof HM Lesch

WOERMANN, Minka (Visual Arts)

The phenomenology of creative flow: a philosophical reflection from drawing practices (in conversation with Diane Victor)

This study develops a phenomenology of creative flow in the domain of drawing practices. Creative flow refers to a state of activity that is focused and engenders a loss of self-consciousness and a distortion of time perception. It is argued that creative flow is distinguished from artistic labour, yet contributes to our sense of purpose by connecting us to something beyond our immediate phenomenological selves. This conception of creative flow feeds into the understanding of drawing as open-ended practice. The theoretical analysis is conducted in conversation with South African artist Diane Victor, who is the practice-based guide for this study.

Supervisor: Prof S Viljoen

Faculty of Arts and Social Sciences (Group 2) Fakulteit Lettere en Sosiale Wetenskappe (Groep 2)

OTHER QUALIFICATIONS | ANDER KWALIFIKASIES

Master of Arts

Magister in die Lettere en Wysbegeerte

Babl, Bastienne Stefanie Margarethe (Ancient Cultures)

Barnard, Angelique (German)

Boltman, Ageelah (Ancient Cultures)

Brink, Marizaan (Afrikaans and Dutch) (cum laude)

Etsebeth, Nuraan (Ancient Cultures) (cum laude)

Gool, Kauthar (Journalism)

Herwels, Jeffrey Paul (Second-Language Studies)

Jam Jam, Zimasa (Journalism)

Kalola, Rauna (Journalism)

Krige, Jakob Daniel (Journalism)

Lottering, Lisa (Journalism)

Lourens, Alana (Afrikaans and Dutch) (cum laude)

Majola, Kholeka Londeka (Journalism)

Mouton, Annika (Afrikaans and Dutch) (cum laude)

Müller, Andrea (Afrikaans and Dutch) (cum laude)

Raman, Kyra Ray (English Studies)

Roodt, Daniel (Journalism) (cum laude)

Tredoux, Lerie (Translation) (cum laude)

Tshokwe, Jacky (Journalism)

Uheida, Sarah (English Studies) (cum laude)

Van der Merwe, Jessica Mary (General Linguistics)

Van der Merwe. Karla (Journalism)

Van der Walt, Khenje Demee (English Studies) (cum

laude)

Van Vuuren, Elizabeth (Drama and Theatre Studies)

Van Wyk, Marlo (Ancient Cultures) *(cum laude)* Zwane-Siguqa, Beauty Makhosazana (Journalism)

Markey of Cardal Wards

Master of Social Work Magister in Maatskaplike Werk

Esterhuyse, Corlia Stephanie

Kolisang, Thato

Potgieter, Loandrie

Master of Music Magister in Musiek

Ahrends, Keenan Chas (cum laude)

Briel, Lizé Marita (cum laude)

Du Plessis, Annemie Johanna (cum laude)

Gibbons, Tyler Mark

Heynike, Gretna Adie (cum laude)

Jansen van Rensburg, Anthonie Christoffel (cum laude)

Joorst, Rudolph Zacharias

Lee, Seung-Ree (cum laude)

Loubser, Micaela Megan Nolukholo

Lynch, Mark (cum laude)

Marlor, Robert Connor (cum laude)

Martin, Bradley Jerad

Petrus, Kerwin Lawrance (cum laude)

Pienaar, Kirsten

Roux, Roné

Soltau, Sarah-Ann (cum laude)

Van der Westhuizen, Carla

Wolfswinkel, David Evan (cum laude)

Master of Arts in Visual Arts

Magister in die Lettere en Wysbegeerte in Visuele Kunste

Johnson, Henri Wills

Lloyd, Ankia

Lombard, Chanel

Makochieng, Gloria Auma

Peckham, Christine Jane (cum laude)

Petersen, Ashley

Schoeman, Jané (cum laude)

Theys, Eden Jodie

Van der Merwe, Cornelia Maria

Bachelor of Arts Honours

Honneurs-Baccalaureus in die Lettere en Wysbegeerte

Abrahams, Ubaid (Journalism)

Adendorff, Maliza (Journalism) (cum laude)

Alberts, Thalia (Drama and Theatre Studies)

Allchin, Luc Thomas (Chinese) (cum laude)

Amon, Nicola (Journalism) (cum laude)

Baard, Abigail Susan (Journalism)

Botes, Marthinus Lukas (Journalism) (cum laude)

Bulana, Simthande (African Languages) (cum laude)

Claassen, Grete Petronel (Language Practice)

Conroy, Laura (Chinese)

Cronjé, Anouk (Afrikaans and Dutch) (cum laude)

De Villiers, Mila (Drama and Theatre Studies) (cum laude)

Esterhuizen, Craig-John (Afrikaans and Dutch)

Fulepu, Iva (Journalism)

Gaskin, Carla Shannon (Chinese)

Gleeson, Nicholas Patrick (Journalism)

Govender, Sithara (Ancient Cultures)

Gumede, Bayanda Mykyla Sizakele (Journalism)

Haas, Cheyenne Amelia (Journalism)

Hamman, Ledivia Emma (Journalism)

Hendricks, Lameez (English Studies) (cum laude)

Hermanus, Alison Michelle Daphne (Journalism)

Immelman, Lize (Afrikaans and Dutch) (cum laude)

Jonker, Rachel Towkheleth (Journalism)

Joubert, Maya (Language Practice)

Kamper, Femia (Ancient Languages) (cum laude)

Kelly, Alexandra Jade (Chinese) (cum laude)

Khumalo, Mtokozo (Journalism)

Krohn, Milena Mari (Visual Studies) (cum laude)

Le Roux, Kara (Journalism) (cum laude)

Lee, Dylan Raymond (Afrikaans and Dutch) (cum laude)

Lindstrom, Amy (Journalism)

Lottering, Elize (Language Practice)

Maphisa, Mandisa Rethabile (Journalism)

Marais, Eugene Ernest (Journalism)

Mhlahlo, Siphokazi Queen (African Languages)

Mouton, Aurelia (Journalism)

Ndlovu, Nkululeko Nkanyiso (Journalism)

Nedum, Erinma Owon Ebimofe Oluchi (Journalism)

Nodlela, Abonga (African Languages)

Odendal, Martine (Afrikaans and Dutch) (cum laude)

Oliver, Mia (Journalism)

Parris. Benjamin (French) (cum laude)

Petzer, Kariena (Visual Studies) (cum laude)

Roughley, Eden Veda (Ancient Cultures)

Saayman, Edric Cameron (General Linguistics)

Schultz, Dhania Kara (Drama and Theatre Studies) (cum laude)

Smith. Lara Anneke (Journalism)

Steyn, Antoinette Susanne (Journalism) (cum laude)

Steyn, Nicole Ashleigh (General Linguistics)

Stuttaford, Sinead Sue (Visual Studies) (cum laude)

Swarts, Mitculay Charuney (Afrikaans and Dutch)

Tshetu, Zenande (African Languages) (cum laude)

Van den Bergh, Adel (Language Practice)

Van der Merwe, Mia (Journalism)

Van Jaarsveld. Duné Elizabeth (Journalism) (cum laude)

Van Rooyen, Frances Elizabeth (Drama and Theatre Studies)

Viviers, Nichola (Drama and Theatre Studies)

Vollenhoven, Sherie (Journalism)

Whales. Nicholas Eric (Chinese) (cum laude)

Bachelor of Music Honours Honneurs-Baccalaureus in Musiek

Cupido, Jaylin Wilfred

Hanekom, Jared Andrew (cum laude)

Martin. Stuart Adrian

Miso, Nicholas (cum laude)

Pratt, Elizabeth

Southgate, Christon

Van Lingen, Sylvia Elise (cum laude)

Van Zyl, Hester Christine

Vellema, Lara (cum laude)

Postgraduate Diploma in Music Technology Nagraadse Diploma in Musiektegnologie

Retief, Bruce

Bachelor of Arts

Baccalaureus in die Lettere en Wysbegeerte

Boshoff, Jurie

Botha, Kalene

Cawse, Riley

Clare, Holly

Couto, Tatum Helena

Cupido, Jamie-Lee

Daniels, Mégan

De Wit, Anel

Fisher, Cara

Fitt, Joshua

Jansen. Ashton

Kees, Lee-Anne

KItshoff, Luca Alex

Lomnitz, Alexander Neville

Mathipa. Tabudi Solomon

Mountford, Kate

Niemann, Lize-May

Nkosi. Lerato

Nothnagel, Nicola Mari

Redelinghuys, Cealagh

Roos, Natalia Christina

Shemane. Motlotlo

Utermohlen, Jemma Leigh

Van der Westhuizen, Zara

Wolstenholme, Carla

Bachelor of Social Work Baccalaureus in Maatskaplike Werk

Afrika, Yolandi Este

Fortuin, Tamia

Herandien, Haybre

Rothman, Morgan

Timmy, Jonique Elzaan

Bachelor of Arts in Visual Arts

Baccalaureus in die Lettere en Wysbegeerte in Visuele Kunste

Todd. Michael (Visual Arts)

Advanced Diploma in Practical Music Gevorderde Diploma in Praktiese Musiek

May, Amy

Higher Certificate in Music Hoër Sertifikaat in Musiek

Coerecius, Josh Hubert

Faculty of Medicine and Health Sciences

25 March 2025 | 09:00

Fakulteit Geneeskunde en Gesondheidswetenskappe

25 Maart 2025 | 09:00

Programme

Please stand 1. Entrance of academic procession into the hall.

Please stand 2. Playing of the National Anthem.

Please sit 3. Congregation formally constituted by the Vice-Chancellor.

4. Welcome by the Vice-Chancellor.

5. Presentation of candidates receiving qualifications by the dean of the faculty and conferment of qualifications by the Vice-Chancellor.

6. Closing by the Vice-Chancellor.

Please stand 7. The academic procession leaves the stage.

Program

Staan asseblief 1. Akademiese prosessie kom die saal binne.

Staan asseblief 2. Speel van die Nasionale Lied.

Sit asseblief 3. Formele konstituering deur die Visekanselier.

4. Verwelkoming deur die Visekanselier.

5. Voorstelling van kandidate wat kwalifikasies ontvang deur die dekaan van die fakulteit en toekenning van kwalifikasies deur die Visekanselier.

6. Sluiting deur die Visekanselier.

Staan asseblief 7. Akademiese prosessie verlaat die verhoog.

Faculty of Medicine and Health Sciences Fakulteit Geneeskunde en Gesondheidswetenskappe

DOCTORAL QUALIFICATIONS | DOKTORALE KWALIFIKASIES

DOCTOR OF PHILOSOPHY DOKTOR IN DIE WYSBEGEERTE

ANTHONY, Michaile Gizelle (Paediatrics)

Measuring health-related quality of life amongst children with respiratory illnesses in low-middle-income settings – a mixed method approach toward developing a scale in Cape Town, South Africa

Health-related quality of life (HRQoL) is a key metric for deciding what health interventions to prioritise, and measuring their relative effectiveness. However, before this study, tools to measure HRQoL in children below the age of five were limited, despite them experiencing a significant burden of disease. Therefore, these young children's experiences could not be understood or counted, and policy choices were made without these key data. This study sets this right by generating new tools to measure HRQoL in children aged 0–2 and 3–5 affected by respiratory illnesses. The tools are informed by patient and caregiver experiences and have since been implemented.

Supervisor: Prof G Hoddinott Co-supervisors: Profs AC Hesseling, MM van der Zalm

ASHIPALA, Daniel Opotamutale (Nursing Science)

A framework to facilitate the implementation of mental health service task-shifting from medical practitioners to registered nurses in primary care settings in the Khomas region, Namibia

This multi-phased mixed-methods study develops a framework to facilitate the implementation of mental healthcare task-shifting from medical practitioners to registered nurses in primary healthcare (PHC) settings in the Khomas region of Namibia. Findings emphasise the need for training, support, funding and expanding nurses' scope of practice to facilitate task-shifting of mental health services. Clear collaborative structures among all stakeholders are foundational to successful task-shifting. This framework has potential value for practice by guiding targeted interventions and policies to address mental health workforce shortages and increase access to mental healthcare in underserved settings.

Supervisor: Prof PM Mayers
Co-supervisors: Prof AS van der Merwe, Dr C Young

BESIGYE, Kabahena Innocent (Family Medicine)

Evaluating the use of the primary care assessment tool to improve primary care performance in Tororo district, Uganda

Improving primary care performance is essential to achieve universal health coverage and sustainable development goals. This study validates the Primary Care Assessment Tool for Uganda and measures the performance of Uganda's Tororo district in terms of access, continuity, coordination, comprehensiveness and person-centeredness. It goes on to demonstrate how the district management team used the findings to co-design and develop interventions to improve performance. The study evaluates the implementation of community dialogues to improve primary care utilisation and access, thereby informing the development of a regional version of the tool that aligns with the World Health Organisation's measurement framework for primary healthcare.

Supervisor: Prof RJ Mash

BESTER, Danelle (Medical Physiology)

Investigating a potential role for ATM protein kinase in the ER stress response in cardiovascular pathology

Obesity is associated with chronic endoplasmic reticulum (ER) stress, which is implicated in cardiovascular disease development. However, modulators of the ER stress response are poorly understood. This study investigates a novel role for ataxia-telangiectasia mutated (ATM) protein kinase in the ER stress response in the context of obesity and cardiovascular disease, using both in vitro and in vivo models. Results reveal that ATM is activated in response to ER stress, protecting against protein aggregation, oxidative stress, and apoptosis. Furthermore, cardiac ATM is dysregulated in obesity and may serve as a novel therapeutic target to improve cardiovascular disease outcomes.

Supervisor: Prof B Huisamen Co-supervisors: Dr M Blignaut, Prof E Marais, Dr D van Vuuren

BEYANGA, Medard (Molecular Biology)

Evaluation of screening approaches for the rapid identification of co-incidence tuberculosis cases among household contacts of active tuberculosis patients in Mwanza, Tanzania

The candidate performed a retrospective epidemiological analysis of TB cases in the Lake Zone of Tanzania, investigated TB diagnostic delay, and evaluated the usefulness of host biomarkers as tools for the early diagnosis of TB in pre-symptomatic household contacts. He generated epidemiologically important findings about the TB detection trends in the region, factors leading to diagnostic delay, and identified blood and urine-based biomarkers that may serve as tools for the early diagnosis of TB amongst household contacts who are TB positive, but do not yet feel sick enough to seek care at healthcare centres.

Supervisor: Prof NN Chegou Co-supervisors: Dr C Kasang (external), Profs SE Mshana (external), G Walzl

BOTHA, Mariëtte (Speech-Language Therapy)

Cross-linguistic and cross-cultural early communication intervention: the experiences of speech-language therapists and caregivers

Speech-language therapists (SLTs) must provide quality, culturally responsive early intervention (EI), irrespective of the child and caregiver's linguistic and cultural background. South Africa's SLTs are a small, homogenous group, still mainly comprised of English and Afrikaans-speaking women. This study explores barriers and strategies for cross-linguistic and cross-cultural EI. It includes a scoping review, hermeneutic-phenomenological interviews with SLTs and caregivers, and a stakeholder review of a newly developed guideline document. The study reveals barriers such as communication breakdowns, while strategies focus on caregiver engagement and cultural respect. The proposed guideline document addresses barriers to culturally responsive EI and the need for culturally appropriate resources.

Supervisor: Dr B Gerber Co-supervisor: Dr AS van der Merwe

for culturally appropriate resources

CAIRNS, Megan Louise (Medical Physiology)

Investigating the effects of chronic stress on cardiovascular and metabolic function

Although mental illness and psychological stress are important risk factors contributing to cardiovascular diseases, the underlying mechanisms remain relatively unclear. Therefore, this study investigates cardiac function in a chronic restraint stress rat model. The data reveals distinct sex-specific responses to chronic stress, with significant cardiac dysfunction in females. Proteomic analysis unveils alterations in proteins associated with cardiac contraction, cell death signalling pathways and pro-fibrotic mediators. These novel findings underscore the crucial role of sex in determining cardiac vulnerability and subsequent injury, and emphasises the need for sex-specific diagnostic and therapeutic strategies to protect the heart from stress-mediated deleterious effects.

Supervisor: Prof MF Essop Co-supervisor: Dr D Joseph

COETZEE, Marisa (Physiotherapy)

Evidence-based supported self-management guidance algorithms for individuals awaiting knee arthroplasty

Osteoarthritis (OA), especially knee OA, affects nearly half of South African adults, impairing function and quality of life. Many patients require total knee arthroplasty, but face long public-sector wait times, worsening pain and health risks. This study develops evidence-based supported self-management guidance algorithms for patients awaiting surgery at Tygerberg Hospital. Through systematic reviews, clinical assessments and expert input, three distinct OA presentation patterns are identified, informing tailored rehabilitation strategies. These findings highlight the need for personalised preoperative care, and future research should focus on feasibility testing and resource development for patients and clinicians in the public sector.

Supervisor: Prof QA Louw

Co-supervisor: Dr A Clifford (external)

COHEN, Mary Anthea (Nursing Science)

Construct clarification and contextualisation of workplace bullying among nurse academics within South African universities

Nurse academic workplaces play a vital role in shaping the next generation of nurses. To avert a shortage of nurse educators, these university environments must foster a supportive work environment free from bullying. This study deepens our contextualised understanding of workplace bullying among nurse academics at universities in a non-Western setting. In South Africa specifically, challenges such as resource constraints, excessive workloads and staff shortages, combined with historical race and gender dynamics, and a hierarchical, militaristic leadership approach in nursing, create a conducive environment for workplace bullying to emerge. Moreover, the study emphasises that experiences of bullying are often perceived through markedly different lenses and remain largely subjective.

Supervisor: Prof A Bosch

Co-supervisor: Prof AS van der Merwe

COOKE, Deborah Margaret (Molecular Biology)

Investigation of tuberculosis in domestic goats (*Capra aegagrus hircus*) in KwaZulu-Natal

This study explores whether there is any evidence of tuberculosis (TB) in goats sharing pastures and communal drinking points with known *Mycobacterium bovis*-infected cattle, wildlife, and humans with TB. State-of-the-art immunological and molecular methods for TB detection are utilised. The findings confirm *M. bovis* infection in communal goats, which is the first such report in South Africa. Undetected livestock TB presents a risk to humans, especially in areas with a high burden of HIV/Aids, as well as to other livestock, highlighting the need for more comprehensive animal TB surveillance and control.

Supervisor: Prof MA Miller Co-supervisor: Prof W Goosen

CUNNINGHAM, Charnay Elechea (Medical Physiology)

The effect of particle therapy on tumour angiogenesis

The anti-angiogenic treatment of lung cancer with traditional radiation and Endostatin has had moderate clinical success. However, the combination of Endostatin and proton radiation, a superior form of radiation due to its dose-sparing capabilities, has not been reported. This in vitro study investigates the effect of this novel combination on the angiogenic profile of lung cancer by exposing cells from vascular, tumoral and microenvironmental lung cancer regions to this therapy. Results reveal that protons inhibit angiogenic processes such as proliferation, migration and tubulogenesis. However, combining Endostatin with protons does not result in consistently enhanced angiogenic inhibition.

Supervisor: Dr A Genis Co-supervisors: Dr J Bolcaen (external), Prof H Strijdom, Dr C Vandevoorde (external) DOH, Gilbert Ndeh (Anatomical Pathology)

High-risk HPV genotypes among HIV-negative and HIVpositive women in Cameroon with cervical intraepithelial neoplasia and invasive carcinoma of the cervix: prevalence, histopathology and biomarker expression

This study reports the diversity of high-risk human papillomavirus (HPV) in Cameroonian women with confirmed pre-cancerous and cancerous lesions, living with and without HIV. It identifies HPV 53 and -56 as prevalent in these women – a finding that has implications for the HPV vaccination strategies in Cameroon, as these types are not covered by current vaccines accessible in this region. The research also evaluates the prognostic value of biomarkers of cervical disease progression in a predictive model, which could significantly enhance the sensitivity and specificity of cytological screening for high-grade lesions, minimising false positive and -negative rates.

Supervisor: Dr M Sanderson Co-supervisors: Drs GB Jacobs, GM Ikomey (external)

FERGUSON, Lisa Marie (Medical Physiology)

An *in vitro* investigation into the effects of Ritalin and Dopamine on human sperm, and the functionality of the Dopamine Transporter (DAT) protein on human sperm membranes

Ritalin, a medication prescribed for attention-deficit and hyperactivity disorder (ADHD), is frequently abused for cognitive enhancement. This study assessed the effect of Ritalin (and dopamine) on sperm functions and sought to identify and localise a dopamine transporter (DAT) on human sperm, similar to that in the brain. The functionality of DAT was also assessed. Results indicate a functional dopaminergic system in human sperm, with Ritalin and dopamine impairing some sperm functions. The findings identified the presence and activity of DAT in sperm function, emphasizing the reproductive risks of Ritalin abuse in males. It highlights concerns around the potential of neurological treatments to affect male reproductive health.

Supervisor: Dr BT Skosana

 ${\it Co-supervisors:} \ {\it ProfSS} \ du \ {\it Plessis} \ ({\it external}), \ {\it Dr} \ {\it L} \ {\it Qulu-Appiah}$

FREDERICKS, Jerome Peter (Occupational Therapy)

Minibus taxis as a means of transport for wheelchair users: A cooperative inquiry

This study makes an original and significant contribution to community-based inclusive development as well as the strengthening of health systems. It advances knowledge at the scientific and practical level. The findings suggested that two frameworks, namely socio-technical transition theory and a multi-level perspective approach, can be employed to disrupt the status quo and to identify feasible innovative solutions. The two frameworks complement the transformative research approach adopted for the study. The findings make a significant contribution to disability, inclusive development and occupational justice.

Supervisor: Dr SJ Visagie Co-supervisor: Prof L van Niekerk

HENDRIKSE, Chanellé Juanita (Psychiatry)

Associations between childhood maltreatment and brain structure, function, and network architecture in apparently healthy adults

Childhood trauma, including abuse and neglect, is associated with long-term neurobiological changes. This study examines psychiatrically healthy adults, using multimodal neuroimaging and the Childhood Trauma Questionnaire to assess how different trauma subtypes impact brain function, structure and aging. Abuse is linked to increased ventral striatum activation during reward anticipation, while deprivation correlates with lower white matter integrity and prefrontal cortical changes. Physical abuse affects inferior frontal gyrus morphology, and sexual abuse is associated with advanced brain aging. These findings highlight distinct trauma-related neural alterations and emphasise the importance of considering childhood trauma in studies of brain development.

Supervisor: Prof S du Plessis Co-supervisors: Profs S Seedat, R Emsley

IRUEDO, Joshua Oise (Family Medicine)

The evaluation of the effectiveness of a community care model of drug-resistant tuberculosis management in the OR Tambo District Municipality

Drug-resistant tuberculosis (DR-TB) poses a significant public health challenge in South Africa and internationally. This study employs a mixed-methods approach to show that a decentralised community care model of DR-TB is more effective than the centralised TB hospital treatment of DR-TB in the OR Tambo District Municipality in the Eastern Cape, South Africa. More patients commence effective treatment earlier, show better outcomes, improved treatment successes, fewer deaths and less loss to follow-up, and are satisfied with the care received at the decentralised sites. Appropriate recommendations on how to effectively sustain and improve on current practice are suggested to policymakers and stakeholders.

Supervisor: Prof M Pather

ISMAEL LOFORTE, Nalia (Medical Virology)

Phylodynamics and Molecular Characterization of HIV-1 and SARS-CoV-2 in Mozambique

Viruses with RNA genomes have high mutation rates, which allow for rapid evolution and adaptation. This can give rise to increased transmissibility and disease severity, undermine vaccine efficacy, or lead to the emergence of drug resistance. Having explored HIV drug resistance patterns in Mozambique over time as treatment protocols changed, this study can inform optimised treatment policies. Its exploration of the phylodynamics of SARS-CoV-2 during the first infection waves enables a better understanding of the arrival and spread of the COVID-19 epidemic in Mozambique.

Supervisor: Prof W Preiser Co-supervisors: Profs T de Oliveira, S Engelbrecht, Dr E Wilkinson

KGATLA, Thato Mmathapelo (Medical Physiology)

Delineating the novel effects of Aspalathus linearis (Rooibos) on mitochondrial regulation in an invitro model of angiotensin-II induced hypertrophy and apoptosis

Existing treatments for cardiovascular disease (CVD) present several adverse effects, highlighting the need for novel therapeutic approaches. *Aspalathus linearis*, or rooibos, has demonstrated antioxidant properties and the potential to enhance mitochondrial function. Evidence suggests that rooibos may mitigate CVD risk factors, although the underlying molecular mechanisms require further investigation. This study provides the first evidence that rooibos can directly prevent hypertrophy and apoptosis of cardiomyoblasts. It also demonstrates rooibos' ability to restore mitochondrial respiratory pathways in the presence of angiotensin-II, a known stimulator of systemic hypertension and left ventricular hypertrophy. Furthermore, it shows how rooibos possibly uses naturally occurring mitochondrial regulators such as metallothioneins to improve cellular protection.

Supervisor: Dr GJ Maarman Co-supervisors: Profs E Marais, R Johnson

MANDLA, Nomtha Fundiswa (Public Health)

Determinants, strategies and cost implications for participant recruitment and retention in an HIV prevention cohort: perspectives from HPTN 071 (PopART)

This study evaluates factors influencing participant recruitment and retention in an HIV prevention cohort. Firstly, it examines baseline characteristics affecting retention in the PopART population cohort, finding higher retention among older individuals and those with higher socioeconomic status. Secondly, it identifies healthcare access and incentives as motivators for participation, while HIV stigma and safety concerns serve as deterrents. Thirdly, it finds that Saturday fieldworker shifts significantly improve retention rates. A cost analysis in the fourth instance identifies tokens of appreciation as the most cost-effective retention strategy. The findings highlight the importance of community engagement and tailored retention strategies for HIV research.

Supervisor: Prof L Nkonki Co-supervisor: Prof P Bock MOLOTO, Kedisaletse (Medical Microbiology)

Expansion and clinical impact of emerging carbapenem resistance in the Western Cape province of South Africa

This study describes the emergence and establishment of carbapenem-resistant *Enterobacterales* (CRE) in the Western Cape province of South Africa between 2016 and 2020. Consistent with literature from the African continent, *Klebsiella pneumoniae* was the predominant CRE species over this period. At Tygerberg Hospital, two *K. pneumoniae* strains, ST39 and ST2621, were predominant, with carbapenemases NDM-1 and OXA-181 on IncFIB(pQil) and ColKP3/IncC/IncX3 plasmids respectively. The research generates novel insights into the molecular epidemiology of CRE in the Western Cape, showing the need to reinforce infection prevention and control practices, to limit CRE transmission, and to guide future surveillance efforts.

Supervisor: Dr M Newton-Foot Co-supervisors: Profs AC Whitelaw, A Dramowski

MTHOMBENI, Nyeleti Babitjie (Pharmacology)

Post-trial care of research participants who participated in phase III clinical trials in South Africa

This study investigates the post-trial care of chronic-disease trial participants using a mixed-methods approach. Trial participants report favourable post-trial experiences, with only 7% having experienced health deterioration. Although trial participants access routine healthcare easily at the end of the trial, investigators and healthcare providers highlight the lack of regulations to ensure satisfactory care beyond trial exit. Investigators and healthcare providers advocate for a seamless continuity of care beyond trial exit instead of a sole focus on post-trial care. The study proposes a framework for continuity of care to inform South African clinical trial guidelines.

Supervisor: Prof E Decloedt Co-supervisor: Dr E Allen (external)

MUGERWA, Pumla Princess (Nursing Science)

A framework for Integration of patient safety education into the basic nursing curricula at a public college in South Africa

With a growing recognition of unintended harm caused by healthcare, there is a need to teach patient safety knowledge, skills and behaviour throughout the nursing curricula, using the appropriate teaching strategies. Through a multi-method, multi-phase approach, this study provides a validated framework for the integration of patient safety education into nursing curricula. The framework can be used by nurse educators, clinical facilitators and healthcare professionals who intend to integrate patient safety education into their curricula.

Supervisor: Prof PJ Jordan

Co-supervisor: Prof M van der Heever

MÜLLER, Jana Vera (Health Professions Education)

Exploring the influence of rural longitudinal multiprofessional student placements on collaborative practice in South Africa

Interprofessional teamwork is widely recognised as essential for optimal healthcare. This study examines the training of students for interprofessional collaborative practice in a rural South African context, based on Stellenbosch University students' and graduates' experiences of multiprofessional distributed training on two rural platforms. A novel, fit-for-purpose interprofessional person, people, place (IP3) framework for health professions education is developed. The framework will assist educators in meaningfully integrating interprofessional education during undergraduate training on distributed training platforms, using ethical transformative learning approaches to produce confident graduates who can engage in interprofessional collaborative practice despite the challenges in the South African healthcare system.

Supervisor: Prof ID Couper Co-supervisor: Prof E Archer

NGALA, Elvis Mbiydzenyuy (Medical Physiology)

The effects of intergenerational epigenetics of traumatic stress on a sexual defeat rat model

This study examines the physiological and genetic mechanisms underlying sexually aggressive behaviour in male Wistar rats. It investigates how social isolation, stress and epigenetic changes affect aggression across generations. Social isolation is found to increase aggression, which is associated with neurochemical imbalances in serotonin, oxytocin, corticosterone and vasopressin. Epigenetic modifications in aggression-related genes (AR, CRHR1, OXTR, 5-HTR1A) are identified in both the FO and F1 generations, influenced by prenatal stress and paternal isolation. Maternal care plays a protective role, reducing aggression in offspring. The study underscores the importance of addressing stress and epigenetic factors to prevent the perpetuation of sexual violence.

Supervisor: Dr L Qulu-Appiah Co-supervisor: Prof SMJ Hemmings NGOM NGOM, Justice Tresor (Molecular Biology)

The impact of changes in treatment strategies on the XDR-TB population structure in the Western Cape province over time

This study seeks to describe the genomic population structure of Extensively drug-resistant tuberculosis (XDR-TB) in the Western Cape over time, and to explore whether certain strains have gained an advantage as a result of novel mutations emerging in response to the inclusion of new drugs in treatment regimens, and the influence this has had on transmission patterns. The findings highlight the genetic diversity and complex evolution of XDR-TB. The research also underscores the need for continuous surveillance using advanced genomic tools to better understand the dynamics of drug resistance, and to inform effective public health strategies, such as targeted interventions in specific healthcare districts.

Supervisor: Prof EM Streicher Co-supervisors: Prof RM Warren, Dr H Loubser

NXUSANI, Zoe Nomakhushe (Nutritional Sciences)

A framework for promotion of the utilisation of indigenous foods for improved health outcomes in the Eastern Cape, South Africa

This study designs, develops and validates a framework that will promote the utilisation of indigenous foods to improve health outcomes in the Eastern Cape province of South Africa. It follows a sequential explanatory mixed-methods approach that includes systematic review, cross-sectional and development phase components. The philosophical underpinnings for the research are the indigenous knowledge system and the nutrition-sensitive approach, while the theoretical domains framework is used in the development phase. The study contributes to the field of indigenous knowledge by offering an implementable framework for promoting the utilisation of indigenous foods to achieve improved health outcomes.

Supervisor: Prof XG Mbhenyane Co-supervisor: Dr MK Zuma (external)

OLADEJI, Bibilola Damilola (Psychiatry)

Integrating care for perinatal depression in primary care: an implementation study

Though the negative effects of perinatal depression on maternal and infant outcomes are well documented, there are persisting gaps in identification and treatment. This type-II hybrid implementation study determines the factors that may impede or facilitate the scaling-up of evidence-based interventions for perinatal depression by frontline non-physician primary healthcare workers (PHCWs) who use the WHO mhGAP-IG (mental health gap intervention guide) in routine practice. A train-the-trainer approachused to train PHCWs. Training improves PHCWs' knowledge and, along with routine screening, also enhances their ability to identify perinatal depression. However, detection rates are still low, constituting a major barrier to treatment.

Supervisor: Prof S Seedat Co-supervisor: Prof O Gureje (external) PHEEHA, Sara Mosima (Epidemiology)

Investigation of gut microbiota profiles and their association with glycated haemoglobin (HbA1c) and inflammatory markers in South African type 2 diabetics versus non-diabetics, with or without COVID-19 history

This study explores gut microbiota of South African type 2 diabetes mellitus (T2DM) patients and non-diabetic individuals, both with and without Covid-19 history. Blood and faecal samples from the study participants are analysed using biochemical tests and DNA sequencing. Analysis of gut microbial profiles in 51 T2DM patients and 99 non-diabetics reveals distinct differences between the two groups. T2DM patients have lower microbial richness and higher levels of harmful bacteria. Additionally, T2DM patients with Covid-19 history have elevated abundances of medically significant species such as Escherichia coli and Klebsiella pneumonia, suggesting a complex microbial relationship influenced by both T2DM and Covid-19.

Supervisor: Prof P Nyasulu Co-supervisors: Dr B Chale-Matsu (external), Prof S Manda (external)

PHOGOLE, Cassius Maapea (Pharmacology)

Clinical and pre-clinical investigation of sertraline use in pregnancy: bioavailability and risk to offspring

Approximately 10% of pregnant women experience depression, with sertraline often prescribed because of its safety profile. Yet emerging research suggests a risk of neurodevelopmental disorders and congenital defects in exposed offspring. This study uses clinical and pre-clinical approaches to determine the impact of gestational sertraline use on foetal development. In a clinical study of 20 pregnant women at delivery, sertraline and its metabolite exhibits approximately 30% placental transfer. Equivalent zebrafish doses affect the serotonergic system and behaviour in developing zebrafish larvae. Whole proteome analysis implicates the metabolite in the clinically observed congenital defects in exposed offspring, particularly cardiac malformations.

Supervisor: Prof TA Kellermann Co-supervisor: Prof C Smith

RUST, Catharina Magdalena (Psychiatry)

Investigating the gut and blood microbiome in Parkinson's disease, schizophrenia and posttraumatic stress disorder

This study investigated gut and blood microbiomes in Parkinson's disease (PD), schizophrenia (SCZ) and posttraumatic stress disorder (PTSD). Significant gut microbiome differences were found in PD, including alterations in abundance of both butyrate-producing and mucin-degrading bacteria. No significant shifts in gut microbial composition were observed in PTSD or SCZ. Cytokine analyses linked gut microbial alterations with proinflammatory cytokine concentrations in PD, while blood microbiome analysis revealed microbial differences in PD and SCZ, but not PTSD. This study highlights the microbial complexity associated with neuropsychiatric disorders, and underscores the need for further research incorporating additional microbial niches, intestinal permeability markers, and short-chain fatty acid concentrations.

Supervisor: Prof SMJ Hemmings Co-supervisors: Profs S Seedat, E Pretorius

SCHOLTZ, Denise (Human Genetics)

Investigating genomic & transcriptomic profiles of patients with Inborn Errors of Immunity in TB endemic South Africa

This study examines the molecular mechanisms of MSMD (Mendelian susceptibility to mycobacterial diseases) in a South African cohort, using genomic and transcriptomic approaches. It identifies IL-12/IFN- γ axis dysfunction in children with severe, persistent, unusual and recurrent (SPUR) tuberculosis (TB), but finds no definitive pathogenic variants through genomic profiling. Transcriptomic profiling reveals chronic inflammation driven by excessive extracellular matrix remodelling, impaired innate immunity, and increased immune suppression via elevated regulatory T cells. Compensatory immune pathway alterations further highlight disease complexity. Unique SPUR TB phenotypes suggest environmental influences. The findings emphasise the need for population-specific genomic resources to enhance TB-related immune disorder management in endemic regions.

Supervisor: Dr B Glanzmann Co-supervisors: Profs M Möller, C Kinnear, Dr T Jooste

SOTUNSA, John Obafemi (Psychiatry)

The effect of partner involvement in the relationship among intimate partner violence, perinatal mental health and pregnancy outcomes in pregnant women in Ogun State, Nigeria

Pregnancy can be compromised by perinatal mental illness (PMI), intimate partner violence (IPV) and partner involvement. This study evaluates the role of partner involvement in pregnancy outcomes in women who have PMI and experience IPV, from their first antenatal visit to six weeks postpartum in Ogun State, Nigeria. High levels of education, employment, marriage and partner involvement are noted. Multi-child families, PMI and partner involvement at specific time points appear to raise the likelihood of adverse pregnancy outcomes. Preterm birth and low birth weight are common. IPV is identified as a risk factor for PMI, while partner involvement emerges as a multifaceted concept.

Supervisor: Prof DJH Niehaus

Co-supervisors: Drs E Jordaan (external), J Voges

STEVENSON, Anne (Psychiatry)

Interplay of adversity and psychosis spectrum disorders: A focus on Africa and low and middle-income countries

There is a strong link between trauma exposure and serious mental health conditions (SMHCs), yet less is known about this relationship in low and middle-income countries, including in Africa. This study shows that when assessing the effects of trauma exposure on historically underrepresented populations, there are three key variables to consider: the impact of interpersonal violence, the impact of armed conflict (and the overlap between the two), and the role of cultural concepts of trauma and idioms of distress. The research also underscores the importance of trauma-informed clinical care for people with SMHCs.

Supervisor: Prof S Seedat
Co-supervisor: Prof K Koenen (external)

TARR, Gareth (Internal Medicine)

Biologic Disease Modifying Anti-Rheumatic Drugs in South African Patients with Rheumatological Diseases

This study investigates serious adverse events (SAEs) experienced by patients with rheumatic diseases treated with conventional synthetic and/or biologic disease-modifying antirheumatic drugs (DMARDs). An analysis of the database of the SA Registry for Using BIOlogic Drugs (SABIO) fails to accurately assess SAEs due to multiple flaws in the design and implementation of the registry. The analysis of patients from the Winelands Rheumatology Centre provides valuable data that shows no significant difference in SAEs between those treated with biologic and conventional synthetic DMARDs. This finding is of major relevance to treatment options for patients under similar circumstances.

Supervisor: Prof H Reuter

Co-supervisors: Prof B Hodkinson (external), Dr T Mann (external)

TARUSARIRA, Willson (Health Sciences Rehabilitation)

Disability and migration: a photovoice study of the lived experiences of Zimbabwean refugee mothers of disabled children living in the Western Cape, South Africa

This study shows that being a refugee mother of a child with a disability is a doubly precarious position in Zimbabwe, during migration as well as after settling in South Africa. The discrimination experienced at the intersection of illegal migration and disability is vividly presented through narrative examples, drawings and photos. Mothers' experiences resonate with the experiences of other refugees. However, the disabled child deepens the experienced challenges, discrimination and hardship through the additional disability identity. The experiences of refugee mothers of disabled children can serve as a barometer for the experiences of refugees and the effectiveness of intervention strategies.

Supervisor: Prof M Geiger

TOKWE, Lwandile (Nursing Science)

Care pathway for the newly diagnosed patients living with HIV/PTB co-infection in South Africa

This study argues that the experiences of patients living with HIV/pulmonary tuberculosis (PTB) co-infection are unique, while care delivery is fragmented and not integrated. A qualitative approach is used to collect data from different stakeholders, including professional nurses, in identified primary healthcare facilities. The different datasets and secondary data findings are merged to inform the developed care pathway for the healthcare team, enhancing care provision to newly diagnosed patients living with HIV/PTB co-infection in primary healthcare clinics in South Africa. The care pathway is validated by a sampled expert group.

Supervisor: Prof PJ Jordan Co-supervisor: Prof RRM Modeste WAINAINA, Grace Muira (Nursing Science)

Development of evidence-based guidelines for coordination and continuity of care through the transitions in the continuum of maternal and neonatal healthcare in Kenya

The maternal and neonatal healthcare (MNH) continuum is an ongoing process where skilled birth practitioners provide care to ensure positive outcomes. However, care fragmentation, especially in sub-Saharan Africa, leads to gaps in care. This study proposes evidence-based guidelines for improving MNH continuity, using the expanded theoretical and integrated people-centred health services frameworks. The multi-method approach followed includes a systematic review, qualitative interviews, meta-ethnographic synthesis, and a scoping review. Findings highlight improved care coordination across MNH segments. Implementing adapted WHO recommendations for transitional continuity can enhance care integration and reduce fragmentation in Kenya's MNH continuum.

Supervisor: Prof DK Kaura

WRIGHT, Simonne Lesley (Psychiatry)

Individual Participant Data Meta-Analysis of Interventions for Posttraumatic Stress

This systematic review and individual participant data meta-analysis assesses the effectiveness of eye movement desensitisation and reprocessing (EMDR) compared with other psychological treatments for posttraumatic stress disorder (PTSD) across eight randomised controlled trials (n = 346). No significant differences are found in PTSD symptom severity (β = -0.24), treatment response (β = 0.86), remission rates (β = 1.05) and study dropout (β = -0.25). In the moderation analyses, unemployed participants display higher PTSD symptom severity post-treatment than their employed peers (β = 0.80), and males receiving EMDR appear more likely to drop out than females (β = 0.23).

Supervisor: Prof S Seedat

Co-supervisors: Prof M Sijbrandij (external), Dr E Karyotaki (external)

Faculty of Medicine and Health Sciences Fakulteit Geneeskunde en Gesondheidswetenskappe

OTHER QUALIFICATIONS | ANDER KWALIFIKASIES

Master of Science Magister in die Natuurwetenskappe

Adebiyi, Sefiyat Odunola (Molecular Biology) Al-Talib, Ilham Saad Salim (Molecular Biology) Bacha, Reta Habtamu (Biostatistics) Bezuidenhout, Ludick Wynand (Molecular Biology) Bonato, Courtney Tracey Anne (Cytopathology)

Braun, Abigail (Human Genetics) *(cum laude)* Buabeng, Suzzana Dickson (Molecular Biology) *(cum laude)*

Coetzee, Liezel (Cytopathology)
Coetzee, Nicola (Medical Virology)

Combrink, Nastassja (Nuclear Medicine) (cum laude)

Corbett, Craig (Clinical Epidemiology) (cum laude) Du Toit, Jeanie (Clinical Epidemiology) (cum laude)

Elsheikh, Mohamed (Clinical Epidemiology)

Genu, Sandisiwe (Biostatistics)

Germishuys, Daniël Casper (Clinical Epidemiology) (cum laude)

Hendricks, Tharwat (Medical Microbiology) (cum laude) Ita-Lincoln, Freedman (Clinical Epidemiology)

Jordaan, Tessa (Nuclear Medicine)

Kantonya, Mphatso (Clinical Epidemiology) (cum laude)

Katangolo, Salomo Shigwedha (Biostatistics)

Krausey, Gemma Eden (Medical Physiology) *(cum laude)* Maritim, Diana Chepkemoi (Molecular Biology) *(cum*

laude) Mazibuko, Retsedisitsoe Prudence (Clinical

Epidemiology)
Mc Donald, Chloe Helen (Medical Physiology) (cum laude)

Mhlophe, Sinegugu Kholeka (Molecular Biology)

Mkandawire, Gracious (Epidemiology)

Mkhize, Ntando Mamayi (Reproductive Biology)

Mokoena, Kheya Reatlegile (Medical Physiology) *(cum laude)*

Mokoena, Tshepiso Motsidisi Gladness (Biostatistics)

Molepo, Ditshego Salome (Molecular Biology)

Munganga, Ndua (Clinical Epidemiology)

Namukuta, Victoria Elizabeth (Clinical Epidemiology)

O'Connor, Armin (Molecular Biology) (cum laude)

Rantho, Lesego (Molecular Biology) (cum laude)

Shiba, Sakhele Lancelort (Medical Physics) (cum laude)

Taitz, Philippa Ende (Biostatistics)

Tattersall, Megan May (Medical Microbiology) (cum laude)

Vermeulen, Sean Amanda (Molecular Biology)

Von Molendorff, Monique (Molecular Biology)

Yalew. Anteneh Tessema (Biostatistics)

Master of Science in Sport and Exercise Medicine Magister in die Natuurwetenskappe in Sport- en Oefeninggeneeskunde

Genis, Ruan Adriaan (Sport and Exercise Medicine) Rademan, Veruschka (Sport and Exercise Medicine) Van Soelen, Nelda (Sport and Exercise Medicine)

Master of Science in Sport Science Magister in die Natuurwetenskappe in Sportwetenskap

Adendorff, Mia (cum laude)
Beyers, Celia (cum laude)
Deacon, Charles (cum laude)
Du Toit, Hilda
Nciki, Sibahle Lelethu

Petersen, Sasha-Lee Michelle

Viljoen, Jacoba Elizabeth (cum laude)

Master of Medicine Magister in die Geneeskunde

Ashton, Frances Stevie (Paediatrics) Aslett, Henry (Anaesthesiology)

Burns, Lucinda Carmen (Obstetrics and Gynaecology)

Cronje, Ulrich Jerome (Surgery) Haumann, Michele (Paediatrics)

Mpateni, Siviwe Siyabulela (Radiological Diagnosis)

Mutugi, Prisca Njeri (Radiation Therapy) Myles, Megan Grace (Paediatrics)

Nienaber, Manus (Otorhinolaryngology)

Pienaar, Zandri Alet (Surgery)
Saunderson, Krystle Ann (Surgery)
Schmidt, Charmaine (Internal Medicine)
Siwawa, Gosiame Chabo (Nuclear Medicine)
Van der Westhuizen, Barbara (Dermatology)

Master of Public Health Nutrition Magister in Voeding in Openbare Gesondheid

Conradie, Carla (cum laude)

Cronje, Barbara

De Beer. Roxanne Frances

Ekron, Claire Jenna (cum laude)

Erasmus. Cari (cum laude)

Mahlawule, Terron Paschalis

Makhavhu, Pfunzo

Mulaudzi, Londolani

Ndlovu. Yenziwe Lindokuhle

Nkomo, Mnene Patience

Pieters, Anike

Master of Human Rehabilitation Studies Magister in die Menslikerehabilitasiestudies

Bramdeo, Diyaksha

Diliza, Lihle

Dominsiano, Lotto Charles Paul

Kentane, Nomvano

Makaula, Ongeziwe

Manxusa, Yanga

Mhlanga, Kwanda

Nilsson, Rene (cum laude)

Opperman, Talia

Seti, Noluvuyo

Sirhayi, Andile

Tekula, Litakazi

Umetor, Joyce Chimeicha

Master in Pathology Magister in Patologie

Losper, Kaylee Chantel (Haematological Pathology) Mhlongo, Zwelakhe Johan Michael (Haematological Pathology)

Master of Philosophy Magister in die Wysbegeerte

Al-kaiyat, Mohammad (Health Systems and Services Research)

Barker, Robert Henry (Health Professions Education) Cariem, Muhammad Shuaib (Health Professions Education)

Chikuse, Delia (Health Systems and Services Research)
De Wet, Susan Gerda (Health Professions Education)
Ebrahim, Mohammed Zahier (Health Professions
Education)

Fredericks, Nicolette (Health Professions Education) Kabamba, Sylvain Bienzedi (Cancer Science) Khumalo, Valentine Lindokuhle (Health Professions Education)

Kleinhans, Shaun (Health Professions Education) Lahri, Sa'ad (Health Professions Education) Le Roux, Ellen Jane (Health Professions Education) Le Roux-Haywood, Che Thelma (Health Systems and

Services Research)
Mabeba, Martha Mmatlala (Infant Mental Health)
Mkamba, Juma Lukwaro (Health Professions Education)
Mohammed, Idris Yahaya (Health Professions Education)

Moosajee, Farzana (Health Professions Education)

Muhu, Beatrice Wairimu (Family Medicine)

Muller, Anna Madeleine (Health Professions Education)

Mwendwa, Florence Annabel Mugure (Health Professions Education)

Patel, Mohammed Moosa (Health Professions Education)
Pillay, Shivani (Family Medicine) (cum laude)

Saban, Zahraa (Family Medicine)

Strydom, Huibrecht Cornelia Christina (Health Professions Education) *(cum laude)*

Thulo, Reitumetse (Family Medicine) Tshongweni, Anele (Cancer Science)

Twiggs, Hilary Lynne (Health Professions Education)

Van Zyl, Mariska (Health Professions Education)

Walsh, Yolanda Louis (Health Professions Education) Zaayman, Heinri (Health Professions Education)

Master of Philosophy in Adult Critical Care Magister in die Wysbegeerte in Volwassene- Kritieke Sorg

Kusi Mensah, Yaw Adubofour

Master of Philosophy in Mindfulness Magister in die Wysbegeerte in Bewuste Teenwoordigheid

Foale, Sarah Jacqueline (Cum Laude)

Master of Philosophy in Paediatric Infectious Diseases Magister in die Wysbegeerte in Pediatriese Infeksiesiektes

Asante, Adraina Naa Morkor

Master of Occupational Therapy Magister in Arbeidsterapie

Cronje, Nandri Julius, Logan Richardene Mkhize, Ngobile Slindokuhle

Master in Speech-Language Therapy Magister in Spraak-Taalterapie

Pietersen, Leana Jacqui

Master of Nursing Magister in die Verpleegkunde

Arison, Mellissa Lindsay Ingram, Unaton Jonck, Charon Mkona, Nonhise Joyce Nyezi, Silindokuhle Rickett, Eloise Angelique (cum laude)

Saayman, Frederik Josefus Setshedi, Keboetswe Kagiso Mercy

Master of Therapeutic Nutrition Magister in Terapeutiese Voeding

Blankenberg, Fiona Cavanagh, Richelle Storm (cum laude) Du Plessis, Maya Kreft, Megan Elizabeth Lilli (cum laude)

Hasson, Safiyah

Mohideen, Khadija Bibi (cum laude)

Mosehuus, Lindie Reid, Lindsay Anne Schräder, Bianca

Van der Lingen, Warick Kyle Van Tonder, Nicole (*cum laude*)

Master of Physiotherapy Magister in Fisioterapie

Chakuchichi, Melisa Chiedza Du Plessis, Wihan James, Liesl Cathrine Kajee, Tasneem Kleinsmith, Jason *(cum laude)* Malunga, Onele Aphinda Miranda

Bachelor of Science Honours Honneurs-Baccalaureus in die Natuurwetenskappe

Du Plessis, Jeanne Arilia (Medical Physiology) (cum laude)
Makova, Ruvarashe (Medical Microbiology) (cum laude)
McNaughton, Jenna Claire (Medical Physiology) (cum laude)

Wang, Zipei (Medical Microbiology) (cum laude)

Bachelor of Science Honours in Sport Science Honneurs-Baccalaureus in die Natuurwetenskappe in Sportwetenskap

Murray, Rory Anton (Performance Sport)

Bachelor of Science Honours in Biokinetics Honneurs-Baccalaureus in die Natuurwetenskappe in Biokinetika

Sakati, Inganathi

Postgraduate Diploma in Addiction Care Nagraadse Diploma in Verslawingsorg

Hyde, Cally Christine Mofokeng, Lerato

Postgraduate Diploma in Infectious Diseases Nagraadse Diploma in Infeksiesiektes

Batali, Isaac Joseph Lobor (cum laude)

Conradie, Lochna (cum laude)

Deng, Emmanuel

Ejinmah, Beauty Chimuanya Evbuomwan, Philip Eghosa Htet, Kyaw Zin *(cum laude)* Hugo, Alida Maria *(cum laude)*

Kodo, Hyacinthe Gatchimou (cum laude)

Massique Balane, Lina Estefania Matan, Yussuf *(cum laude)*

Meli Kouonmenioc, Hermine Motta, Goodluck (cum laude)

Ngwakwe, Ebenezer Chinemerem (cum laude)

Quirke, Sinead (cum laude) Roscher, Monique (cum laude) Van Staden, Sanet (cum laude)

Postgraduate Diploma in Family Medicine Nagraadse Diploma in Huisartskunde

Biaya, Mujinga Sylvie Fredericks, Wilton Jason Kalenda, Mwabila Benoit Kalombo, Evarist Aime Kalombo Kariem, Abdul Khalied Maharaj, Sundesh Kripanath Petersen, Aaminah

Postgraduate Diploma in Midwifery Nagraadse Diploma in Verloskunde

Damba, Zusiphe Maragana-Pato, Abongile

Postgraduate Diploma in Nursing Education Nagraadse Diploma in Verpleegonderwys

Lolweni, Pheliswa Majola, Khanyile Mgunyasi, Aphiwe Moacwi, Precious Pelonomi Mofedi, Mpho Aletta Ndlane, Abonge Oliphant, Bathandwa

Postgraduate Diploma in Primary Care Nursing Nagraadse Diploma in Primêresorgverpleegkunde

Mabovana, Dikela Luzuko *(cum laude)* Nogom, Nolulama Nonjabe, Xolisile

Postgraduate Diploma in Mental Health Nursing Nagraadse Diploma in Geestesgesondheidsverpleegkunde

Bikitsha, Bekisisa Feleza, Nompumezo Phyness Nogwaza, Zamukulungisa Pangisa, Zakhele Keneth

Postgraduate Diploma in Health Service Management Nagraadse Diploma in Gesondheidsdiensbestuur

Burns, Yolanda Jaggers, Lena Jara, Pateka Moses, Sebina Martha

Postgraduate Diploma in Critical Care Nursing: Adult Nagraadse Diploma in Kritiekesorgverpleegkunde: Volwassene

Jara, Samkelisiwe Kula, Athi Mathayi, Sibuliso Mpayithethi, Lindile Suliman, Afia

Postgraduate Diploma in Emergency Nursing Nagraadse Diploma in Noodverpleegkunde

Adams, Ashwin Andrews, Andrea Mellisa Ashraf, Wedaad Bashi, Tshegofatso Buthelezi, Thobeka Hendricks, Nicole Roshnie Keetse, Mosibudi Ronny Kotsana, Wandile Maqungu, Zanobuhle Mbonane, Siyabonga Alfred Rakoata, Mapotsa Sarah Vaaltyn, Gladness

Postgraduate Diploma in Perioperative Nursing Nagraadse Diploma in Peri-operatiewe Verpleegkunde

Seoposengwe, Keditlwaetse Evelyn

Postgraduate Diploma in Health Care Management Nagraadse Diploma in Gesondheidsorgbestuur

Engel, Jade Ian
Esau, Nicholette Marshall
Fortuin, Melvin
Gaji, Mzwamadoda
Gwiliza, Siphokazi Precious (cum laude)
Hartley, Chantal
Honeyborne, Sean Strech
Marthinus, Melany Frances Joseline
Nkontselo, Nomvula
Pietersen, Christelene Suzaine Mariette (cum laude)
Reyneke, Jolandie (cum laude)
Van Jaarsveld, Juliana Bertina (cum laude)
Verster, Janette (cum laude)

Postgraduate Diploma in Rural Medicine Nagraadse Diploma in Landelike Geneeskunde

Selemani, Didier

Postgraduate Diploma in Medical Toxicology Nagraadse Diploma in Mediese Toksikologie

Mutshinya, Mpfariseni Surprise

Bachelor of Medicine and Bachelor of Surgery Baccalaureus in die Geneeskunde en Baccalaureus in die Snykunde

Ahmed, Ibtisaam
Behardien, Anwar
Eshraghi, Leila Ashleigh
Fourie, Engeri
Gxwala, Yonela
Hatungimana, Yohali Lena Kikoko
Khan, Kabeer
Nonyukela, Linda
Nzama, Luyanda Perseverance
Potera, Tatenda

Faculty of Science

25 March 2025 | 13:00

Fakulteit Natuurwetenskappe

25 Maart 2025 | 13:00

Programme

Please stand 1. Entrance of academic procession into the hall.

Please stand 2. Playing of the National Anthem.

Please sit 3. Congregation formally constituted by the Vice-Chancellor.

4. Welcome by the Vice-Chancellor.

5. Presentation of candidates receiving qualifications by the dean of the faculty and conferment of qualifications by the Vice-Chancellor.

6. Closing by the Vice-Chancellor.

Please stand 7. The academic procession leaves the stage.

Program

Staan asseblief 1. Akademiese prosessie kom die saal binne.

Staan asseblief 2. Speel van die Nasionale volkslied.

Sit asseblief 3. Formele konstituering deur die Visekanselier.

4. Verwelkoming deur die Visekanselier.

5. Voorstelling van kandidate wat kwalifikasies ontvang deur die dekaan van die fakulteit en toekenning van kwalifikasies deur die Visekanselier.

6. Sluiting deur die Visekanselier.

Staan asseblief 7. Akademiese prosessie verlaat die verhoog.

Honorary Doctorate | Eredoktorsgraad

FACULTY OF SCIENCE FAKULTEIT NATUURWETENSKAPPE

The degree Doctor of Science (DSc), honoris causa, to Die graad Doktor in die Natuurwetenskappe (DSc), honoris causa, aan

Philemon Mphathi Mjwara

for his outstanding achievements as science policymaker and advocate, and his exceptional leadership contribution to the strengthening and advancement of science at the national and international level.

Over the past three decades, Dr Philemon (Phil) Mphathi Mjwara has contributed significantly to the development of South Africa's system of science, technology and innovation. As the former director-general of the national Department of Science and Innovation, he ensured that science was used to improve all South Africans' lives. In recognition of his efforts in this role, he received the 2020 Batho Pele Excellence Award for Director-General of the Year.

As part of his many contributions to the country's science, technology and innovation landscape, Mjwara led the team who conducted the first South Africa Foresight Exercise for Science, Technology and Innovation (SAForSTI).

Mjwara holds a BScHons (1984) and an MSc (1987) degree from the University of Fort Hare, as well as a PhD (1995) from the University of the Witwatersrand. His academic career included serving as professor of Science and Technology Policy at the University of Pretoria, and teaching Physics at the universities of the Witwatersrand, South Africa and Fort Hare. He has published and presented numerous papers on physics, technology analysis and technology foresight processes.

Mjwara serves on a number of advisory councils and review boards and was recently appointed as South Africa's permanent representative to the United Nations Educational, Scientific and Cultural Organisation (Unesco). In his various positions and – perhaps most significantly – as the country's longest-serving director-general, Mjwara has made a major contribution to science policies geared towards supporting researchers and moving South African society forward.

vir sy voortreflike prestasies as wetenskapbeleidvormer en -kampvegter, en sy uitsonderlike leierskapsbydrae om die wetenskap op nasionale én internasionale vlak te versterk en te bevorder.

Dr Philemon (Phil) Mphathi Mjwara het die afgelope drie dekades aansienlik tot die ontwikkeling van Suid-Afrika se wetenskap-, tegnologie- en innovasiestelsel bygedra. As die voormalige direkteur-generaal van die nasionale Departement van Wetenskap en Innovasie, het hy gesorg dat die wetenskap gebruik word om alle Suid-Afrikaners se lewens te verbeter. Juis vir sy werk in hierdie hoedanigheid het hy in 2020 die Batho Pele Uitnemendheidstoekenning vir Direkteur-Generaal van die Jaar ontvang.

Een van Mjwara se vele bydraes tot die land se wetenskap, tegnologie- en innovasielandskap was sy rol as leier van die span wat die eerste Suid-Afrikaanse vooruitskouingstudie op die terrein van wetenskap, tegnologie en innovasie (SAForSTI) onderneem het.

Mjwara het die graad HonsBSc (1984) en MSc (1987) aan die Universiteit van Fort Hare verwerf, sowel as 'n PhD (1995) aan die Universiteit van die Witwatersrand. Op akademiese gebied was hy onder meer professor in Wetenskap- en Tegnologiebeleid aan die Universiteit van Pretoria, en Fisikadosent aan die universiteite van die Witwatersrand, Suid-Afrika en Fort Hare. Hy het etlike navorsingstukke oor fisika, tegnologie-ontleding en tegnologievooruitskouingsprosesse gepubliseer en aangebied.

Hy dien in 'n aantal advies- en oorsigrade, waaronder die direksies van die World of Platinum of South Africa en die Square Kilometre Array Organisation (SKAO). In sy verskeie poste en – straks die belangrikste – as die land se langsdienende direkteur-generaal, het Mjwara 'n enorme bydrae gelewer tot wetenskapbeleide wat daarop gerig is om navorsers te ondersteun en vooruitgang in die Suid-Afrikaanse samelewing te bewerkstellig.

Faculty of Science Fakulteit Natuurwetenskappe

DOCTORAL QUALIFICATIONS | DOKTORALE KWALIFIKASIES

DOCTOR OF PHILOSOPHY DOKTOR IN DIE WYSBEGEERTE

ARRON, Hayley Emma (Physiological Sciences)

A comparative study of the coagulation systems and inflammatory profiles of patients with myalgic encephalomyelitis/chronic fatigue syndrome and patients with long COVID

Post-infectious conditions such as myalgic encephalomyelitis/ chronic fatigue syndrome (ME/CFS) and long COVID cause profound disability, yet their biological underpinnings remain poorly understood. Virchow's triad – hypercoagulability, altered blood flow, and endothelial dysfunction – provides a framework to investigate potential mechanisms. Advanced techniques reveal abnormal clot structures, platelet activation, and changes in blood rheology, distinguishing long COVID from ME/CFS. These findings highlight significant circulatory dysfunction in both conditions, and suggest the existence of distinct subgroups. By identifying key differences and commonalities, this research underscores the urgent need for improved diagnostics and a deeper understanding of post-infectious disease mechanisms.

Supervisor: Prof E Pretorius

BAKER EFFENDI, Sedick David (Computer Science)

An approach to modern static analysis with property graphs

Software development today is driven by frequent updates and third-party libraries, resulting in complex, large-scale programs. Ensuring their security and reliability requires continuous verification, but analysing entire systems is resource-intensive. To address this challenge, this study designs static analysis techniques that operate efficiently in resource-constrained environments. Our novel approach models programs using property graphs, allowing partial analysis that remains effective despite missing information. The techniques developed enable scalable data-flow tracking and automated mining of features from code changes across multiple programming languages. These contributions enhance modern static analysis, improving software security and maintainability without the computational burden of full-program evaluation.

Supervisor: Prof AB van der Merwe Co-supervisors: Profs W Visser, F Yamaguchi **BUCKTON**, Calib (Physics)

A hybrid deep learning based algorithm for gamma ray spectroscopy analysis

A deep learning machine learning based algorithm is developed to support gamma spectroscopic analysis of multiple gamma sources. Besides accurately predicting the presence of different isotopes from spectral data, the algorithm possesses the ability to quantify the contribution of multiple gamma sources from a mixture of isotopes, as well as denoise the spectra by predicting a spectrum that contains less statistical noise than the experimentally measured spectrum. The algorithm separates a multiple-isotope sample spectrum into individual constituents, as a form of blind source separation. This application could potentially have a wide range of applications in environmental studies and medical sciences.

Supervisor: Prof SM Wyngaardt Co-supervisor: Dr M Ngxande

CHAGWEDERA, Ruvimbo Michelle (Polymer Science)

Metastable amphiphilic copolymers for the fusion of SMALPs

Over the past 15 years, amphiphilic copolymers have been shown to effectively extract membrane proteins (MPs) along with their annular lipids from cell membranes into nanodiscs. In this study, polymers are developed that are transiently amphiphilic. These polymers form a tool to fuse MP-containing nanodiscs, thus forcing MPs of interest into one nanodisc. Initial attempts to create such polymers based on poly(styrene-alt-maleic acid) (alt-SMA) show that alt-SMA is able to retain the stability of nanodiscs after their formation. Acrylic acid-based polymers are developed as an alternative, and show great proof of concept for further exploration in the field of MP research.

Supervisor: Prof B Klumperman

CHRISTOPH, Lydia (Chemistry)

Novel water soluble complexes of rhodium and ruthenium catalysts in aqueous biphasic hydroaminomethylation reactions

A sustainable approach to amine production using recyclable rhodium and ruthenium catalysts with water-soluble ligands is presented. A biphasic reaction system, where catalysts are in water, and reactants in an organic solvent, enables easy catalyst separation and reuse, reducing waste and eliminating the need for continuous catalyst production. Rhodium catalysts efficiently produce aldehydes and amines from 1-octene, maintaining activity after multiple uses. Ruthenium catalysts, though moderately less active, show promise when combined with a reaction using water as a hydrogen source, further enhancing process sustainability by reducing reliance on external hydrogen donors and improving efficiency.

Supervisor: Prof SF Mapolie

CHRISTOWITZ, Claudia (Physiological Sciences)

The functional impact of a rare germline $TP53\beta$ N340D variant identified in breast cancer patients with the Li-Fraumeni-like syndrome

This study establishes a functional genomics pipeline for the pathology-supported genetic testing framework in South Africa to improve variant classification and enhance personalised medicine outcomes for cancer patients. The functional impact of a rare germline *tumour suppressor protein 53* variant is investigated, using a translational ex vivo model. The variant is found to decrease cell proliferation, impair cell death, increase cellular senescence and reduce cell migration in peripheral blood mononuclear cells. Furthermore, immune infiltration and spheroid disruption is explored in a 3D coculture model. Additionally, a prothrombotic phenotype is observed in platelet-poor plasma, providing supporting evidence for the pathogenicity of the variant.

Supervisor: Prof A-M Engelbrecht
Co-supervisors: Prof MJ Kotze, Dr DW Olivier (external)

DE BEER, Shane (Chemistry)

Electronic structure investigation on sorption processes in metal-organic materials for photocatalysis

Global warming presents a critical threat to life on earth. Metal-organic frameworks and metallocycles are advanced materials that can address these challenges through the sorption and further photocatalytic conversion of CO_2 . Cutting-edge computational methods have yielded a detailed understanding of the role of interactions between CO_2 and host frameworks, including the role of functionalisation, in the sorption mechanisms of such materials. Furthermore, high-level calculations show that the potential of a series of metallocycles to facilitate photocatalytic activation of CO_2 is strongly dependent on the metal centre used.

Supervisor: Prof C Esterhuysen Co-supervisor: Prof LJ Barbour

DE LA HARPE, Alana (Biochemistry)

Mathematical modeling of cholesterol metabolism in Mycobacterium tuberculosis

Two genome-scale mathematical models for metabolism were constructed: A new model was made for *Mycolicibacterium smegmatis*, and an existing model for the pathogen *Mycobacterium tuberculosis*, the causal organism for TB, was extended with an improved cholesterol pathway. The models were validated with gene essentiality studies and with growth experiments performed on several carbon sources. On the basis of the essentiality studies, it was concluded that *M. smegmatis* is a suitable model organism for *M. tuberculosis*. Several potential drug targets, including targets for latent TB infection, were identified in the cholesterol pathway.

Supervisor: Prof JL Snoep

Co-supervisor: Prof D Warner (external)

DINES, Sasha Francess (Zoology)

Applied passive acoustic monitoring of South Africa's most threatened marine mammal, the Indian Ocean humpback dolphin (Sousa plumbea)

The Indian Ocean humpback dolphin is highly threatened, with individual acoustic detection proposed as a viable alternative to traditional boat-based detection methods. Results demonstrate a vocally elusive species with high-frequency whistles, low production rates, and little effect of behaviour or group composition on calls. Signature whistles are found to be an effective alternative to traditional photo ID-based monitoring methods, providing results that demonstrate a small population throughout a portion of their south coast range. This work adds to our understanding of vocal behaviour in this threatened dolphin and demonstrates how signature whistles can be used in passive acoustic monitoring.

Supervisor: Dr J Measey Co-supervisors: Drs T Gridley, S Elwen

ERWIN, Kyle Harper (Computer Science)

Characterizing the complexity of tabular machine learning classification problems

Tabular classification problems can be described using meta-features, which are measures that capture various aspects of the dataset, including its organisation, representation and complexity. This study reviews existing meta-features and proposes new meta-features to address gaps identified in the literature. Extensive experimental analysis is then performed on over 200 tabular classification problems in order to identify the best meta-features for predicting classifier performance. It is found that one of the proposed measures, a probability-based complexity measure, forms part of a subset of the most informative meta-features for predicting classifier performance.

Supervisor: Prof AP Engelbrecht

FRANTZ, Tagwin Claire (Biochemistry)

Functional relationship between glycolytic flux and growth rate of *Plasmodium falciparum*: an experimental and modelling approach

The malaria parasite *Plasmodium falciparum* depends on glycolysis for free energy production. In this study, three glycolytic inhibitors are tested for their effect on the glucose metabolism, growth and free energy state of the pathogen to identify potential drug targets. The three inhibitors affect the hexokinase, phosphofructokinase and glyceraldehyde 3-phosphate dehydrogenase respectively. The experimental data is analysed in a detailed mathematical model and by means of metabolic control analysis. The hexokinase and phosphofructokinase show high flux control coefficients and could be potential drug targets. The inhibitors are applied to isolated parasites, infected and uninfected red blood cells, and the bacterium *Lactococcus lactis*.

Supervisor: Prof JL Snoep Co-supervisor: Dr DD van Niekerk

HAUPT, Shelley (Geoinformatics)

Multi-sensor remote sensing for slope stability monitoring in open-pit mining

Mine slope failures have devasting consequences, and monitoring is a priority for safe and sustainable mining operations. Slope stability monitoring programmes aim to detect early movements and prevent failures. This study assesses remote sensing techniques such as optical cross-correlation, radar interferometry and elevation model differencing for slope instability detection. Each method involves certain opportunities and limitations, such as sensitivity to movement direction or data accuracy, but can complement conventional methods and provide continuous coverage. Multi-sensor remote sensing offers a comprehensive view of mine slopes, improving the detection of instabilities in unmonitored areas, ultimately ensuring more robust slope stability monitoring programmes.

Supervisor: Dr J Engelbrecht (external) Co-supervisor: Dr J Kemp JOHANI, Joshua Tinashe (Polymer Science)

Physicochemical understanding of cross-linked casein nanoparticles across the scale

This study explores how casein, a milk protein, can be cross-linked into single-chain nanoparticles, unlocking new possibilities for pharmaceutical applications. By fine-tuning conditions such as concentration, ionic strength and temperature, precise control over particle size is achieved. Advanced analytical techniques are adapted to study these tiny structures, including size exclusion chromatography, mass spectrometry and molecular dynamic simulation. The resulting nanoparticles show promise for encapsulating hydrophobic drugs, offering potential for targeted delivery. This work deepens the understanding of casein-based nanomaterials and lays the foundation for future innovations in drug delivery and nutraceutical applications.

Supervisor: Prof A Lederer

KASSAYE, Masreshaw Temere (Mathematics)

The phase transitions in random directed acyclic graphs

Directed acyclic graphs (DAGs) are fundamental structures with applications in pure and applied sciences. They are defined as digraphs where directed cycles are forbidden. They serve as the underlying structures of systems such as citation networks, food webs and Bayesian networks. A natural model of a random DAG is introduced and analysed, using analytic and probabilistic techniques. Two distinct phase transitions are identified within the sparse regime: The first is marked by the emergence of a giant weakly-connected component, while the second corresponds to a sudden change in edge density. This new model is also compared with other existing models.

Supervisor: Dr D Ralaivaosaona

MANYE, Remofilwe Eleanor (Chemistry)

Linking the redox profile of metallocenyl-heteroaromatic derivatives to their in vitro biological activities

The discovery of new drugs for the treatment of malaria and cancer remains an essential avenue of research. This study entails the design and synthesis of new ferrocenylbenzimidazoles and organometallic heterobimetallic complexes with Ir(III), Rh(III), and Ru(III). Physicochemical studies reveal that some complexes have better aqueous solubility based on their structure. Studies indicate moderate lipophilicity, and minimal interactions with glutathione are observed. Electrochemical analysis highlights redox behaviour influenced by substituents and metal centres. Antiplasmodial studies show moderate activity, with one complex being identified as very potent. Anticancer testing suggests modest activity and selectivity towards specific breast cancer cell lines.

Supervisor: Dr P Chellan Co-supervisor: Dr S Ngubane (external)

MATINISE, Nonkosi (Chemistry)

Synthesis and use of novel extractants for the selective separation of Co from Mn and Ni metal ions by solvent extraction

Lithium-ion batteries have become a highly important energy source, not only in electric vehicles, but in many other portable electronic goods. Three key metal ions in these batteries are cobalt, nickel and manganese. Primary-source ores are being depleted, so there is a need to recycle used goods that contain these metal ions. In this research, new extractants are designed and made in the laboratory that exhibit high and selective separation of cobalt from nickel and manganese. These extractants are environmentally friendly and better than current extractants, which are toxic to the environment. The novel extractants can also be used repeatedly.

Supervisor: Prof RC Luckay

MOTLOUNG, Banele Mike (Chemistry)

Preparation of aerogel composites containing highly porous metal-organic frameworks

Silica aerogel composites incorporating the metal-organic framework HKUST-1 were developed and evaluated for mechanical resilience, gas permeability, and carbon dioxide sorption capacity. Composite materials with varying HKUST-1 content were synthesized and characterized using powder X-ray diffraction, thermogravimetric analysis, and scanning electron microscopy. Mechanical testing demonstrated improved stiffness and durability compared to pure silica aerogels. Permeability measurements indicated potential for use in filtration and separation. Carbon dioxide sorption experiments revealed enhanced uptake due to synergistic interactions between the components. These findings highlight the potential of silica aerogels as support matrices for metal-organic frameworks in gas capture and separation.

Supervisor: Prof LJ Barbour Co-supervisor: Prof PE Mallon

MPHATENG, Thabang Ngoako (Polymer Science)

N-Vinylamide based polymer-clay nanocomposite hydrogels

Tough, physically crosslinked poly(*N*-vinylamide)-based polymer-clay nanocomposite hydrogels are developed. This is accomplished by realising the formation of ultrahigh molar mass poly(*N*-vinylamide)s through the *in situ* photoredoxinitiated radical polymerisation of *N*-vinyamide monomers in the presence of laponite clay, i.e. the crosslinker. Furthermore, mechanical properties of the polymer-clay nanocomposite hydrogels are modulated by manipulating the microstructure of the polymer components through the copolymerisation of *N*-vinylamide monomer pairs with complementary hydrogen bond donating and accepting capabilities, as well as tailored polarities. This results in the formation of tough and strainresistant hydrogels with excellent swelling properties and promising adsorption capabilities.

Supervisor: Dr R Pfukwa Co-supervisor: Prof G Wolfaardt

PATEL, Leena Desiree (Chemistry)

Kinetic studies of solid-state [2+2] photodimerization reactions using photocalorimetry

A new photocalorimetric technique was developed to study the kinetics of solid-state [2+2] photodimerization reactions using photo-differential scanning calorimetry (photo-DSC). Reaction rates, activation energies and enthalpy changes were determined for α -trans-cinnamic acid and a co-crystal of 1,3-dihydroxybenzene with trans-1,2-bis(4-pyridyl)-ethylene. The reactions followed a diffusion-controlled mechanism, with temperature-dependent behaviour deviating from typical thermal trends. Optimal temperatures for maximum conversion and efficiency were identified. This approach demonstrates the applicability of photo-DSC in analysing photochemical reactions in crystalline materials, and provides insights into reaction mechanisms, highlighting the complexities of solid-state transformations and their potential in designing new functional materials.

Supervisor: Prof LJ Barbour Co-supervisor: Prof DA Haynes

ROMAN, Stacey Kelly (Chemistry)

Investigating the design of new metallocenyl-cyclic peroxide derivatives and their in vitro delivery using polymeric systems

Artemisinin-based combination therapies are the recommended first-line treatment for uncomplicated *Plasmodium falciparum* malaria. In this research, new malaria treatments are developed by combining organometallic compounds with antimalarial activity and biodegradable amphiphilic block copolymer drug delivery systems. The artemisinin-ferrocene hybrid complexes are evaluated for their physicochemical properties and antimalarial activity, both with and without polymer encapsulation. In some cases, poly(ethylene glycol)-*block*-poly(lactic acid) micelles improve drug solubility, stability and efficacy, particularly for one of the more poorly soluble complexes. In vitro testing of the free organometallic complexes compared to the encapsulated complexes shows strong antimalarial activity and high selectivity for *P. falciparum* over mammalian cells.

Supervisor: Dr P Chellan Co-supervisor: Dr R Pfukwa

SCHOEMAN, Stephanie (Zoology)

Origin, local dispersal and reproductive patterns of the bait polychaete *Diopatra aciculata* Knox & Cameron, 1971 (*Annelida: Onuphidae*) in the Knysna estuary, South Africa

The polychaete worm, *Diopatra aciculata*, has been collected for bait by local fishermen for decades. Genetic data suggest that this species is native to Australia and was introduced independently to Knysna and Swartkops estuaries in South Africa. Through dispersal of larvae and movement of worms by fishermen from Knysna, a third population was subsequently established in Keurbooms estuary. Despite harvesting, healthy populations are maintained through high retention of larvae and females spawning their eggs over three months. The worms also have advanced regenerative capabilities, allowing them to survive extensive damage inflicted by predators or during bait collecting.

Supervisor: Prof CA Simon Co-supervisor: Prof CA Matthee SIGWINTA, Mawande (Polymer Science)

Multidimensional analysis and characterization of chain walking polyethylene

This research focuses on the precise characterisation of novel chain-walking polyolefin-acrylate copolymers – materials with complex branching and functional groups. By systematically adjusting reaction conditions, a diverse range of polymer architectures is created. Advanced separation techniques, including high-temperature chromatography, enable detailed structural analysis. A novel room-temperature method is also developed to improve separation by chemical composition. These insights enhance the understanding of polymer design, and open new possibilities for advanced materials. The work provides a strong foundation for future applications in tailored polymer synthesis and contributes to the broader field of polymer chemistry.

Supervisor: Prof A Lederer

SULEIMAN, Abdulrahaman Lawal (Applied Mathematics)

Modelling the adaptation of thermal reaction norms in fluctuating environments, using adaptive dynamics

Understanding the adaptation of organisms to changing temperatures is crucial in the context of climate change. Thermal performance curves describe individual performance as a function of environmental temperature. Modelling the adaptation of such performance in different regimes is an open question in ecology. Using competition models based on adaptive dynamics, this study examines the evolution of the performance curve in constant, periodic and stochastic environments. In constant environments, adaptation results in full specialisation, while in periodic and stochastic environments, it produces a full range from specialisation to generalisation, specialisation to extremes, and bimodal performance curves, suggesting character divergence in the population.

Supervisor: Dr P Landi Co-supervisor: Prof C Hui

THIBAUD, Jessica Leigh (Chemistry)

Machine learning approaches towards developing inhibitors for *P. falciparum* cGMP-dependent protein kinase

Cyclic GMP-dependent protein kinase (PKG) is essential during the asexual blood stage (ABS) of the malaria parasite, *Plasmodium falciparum*. Using known activity data for inhibitors and non-inhibitors of PfPKG, a principal component analysis enrichment map and a random forest machine-learning classification model are developed to predict enzyme activity of new compounds. Predictions are supported using molecular docking of test compounds to a crystal structure of *Plasmodium* PKG. Hit compounds are also evaluated for their polypharmacology against synthetic hemozoin formation, a second important ABS target. Two FDA-approved tyrosine kinase inhibitors, derazantinib and ibrutinib, are identified as potential dual-target antiplasmodium candidates.

Supervisor: Dr KA de Villiers

VAN HEERDEN, Carel Jacobus (Genetics)

Genetic analysis of downy and powdery mildew resistance in grapevine: A comparative study of 'Regent' and 'Red Globe' cultivars

This study validates the genetic basis of resistance to the fungal diseases downy and powdery mildew in the Regent grapevine variety in South African conditions. The progeny of a cross between Regent and Red Globe is used to create a genetic map, which, together with resistance data, locates major resistance loci. Using microsatellite analysis, unique DNA fingerprints are assigned to 98 of the 113 grape cultivars tested, confirming breeding history, but also revealing inconsistencies. Markers linked to resistance loci show that most of the downy mildew-resistant cultivars tested share a conserved region with Regent, confirming the origin of downy mildew resistance.

Supervisor: Prof JT Burger

Co-supervisor: Prof R Prins (external)

VAN NIEKERK, Ferdinand (Physics)

Development of a mobile gamma-ray LaBr₃(Ce) detector unit for in-situ radionuclide analysis at TENORM contamination sites

A mobile radiation detection unit equipped with a LaBr₃(Ce) detector is designed to measure naturally occurring radioactive materials in terrestrial environments. After careful calibration, measurements are carried out at iThemba LABS in the Western Cape, Mamba Weir in the Kruger National Park (a rehabilitated site), and Welverdiend AH on the West Rand (a site with elevated radiation levels). Soil samples are collected from the Kruger Park and Welverdiend AH sites, and analysed using analytical chemistry techniques to determine the abundance of uranium disequilibrium at the contaminated sites. The validated unit now provides a vital new piece of measurement equipment for future scientists.

Supervisor: Dr P Jones (external) Co-supervisor: Prof RT Newman

VAN RENSBURG, Hendré (Zoology)

Investigating the role of an alien baitworm as a consumer in a protected estuarine bay: the case of *Diopatra aciculata* (*Annelida*: *Onuphidae*) in the Knysna estuary of South Africa

The alien polychaete worm *Diopatra aciculata* prefers nitrogen-rich food and usually occupies the highest trophic level in estuarine benthic communities, across season and location. When this worm is present, fewer types and poorer quality of food are available for co-occurring invertebrates, which can have a negative impact on their survival. Genetic analyses of the gut contents of worms show that they eat mainly arthropods, molluscs and fish, but the species depend on location. The large size and dense populations of these worms suggest that they may have a significant impact on food availability to indigenous invertebrates in invaded estuaries.

Supervisor: Prof CA Simon Co-supervisor: Prof CA Matthee

WASO, Frederick John (Physics)

Resonance ionization spectroscopy methods for zinc and indium

Resonance ionisation spectroscopy enables selective excitation and ionisation of zinc and indium isotopes. Zinc, significant in nuclear medicine, is enriched through broadband lasers from a natural zinc sample, improving isotope separation by exploiting atomic transition selection rules. Polarisation of laser pulses is systematically controlled and adjusted, achieving a 90% yield of zinc-67. A vector model aligns well with experimental outcomes, confirming high selectivity in an external magnetic field. Additionally, stable indium is studied for nuclear structure insights, using a new field ionisation setup at CERN-ISOLDE, which yields hyperfine structure data consistent with published values.

Supervisor: Dr CM Steenkamp Co-supervisor: Dr RA Bark (external)

WILKINSON, Catherine (Botany)

Phytochemical and molecular analysis of novel wild rooibos chemotypes and their potential application in skin cancer treatment

Wild rooibos (Aspalathus linearis) populations with unique chemistry that inhibits the in vitro growth of melanoma are studied using metabolome and proteome analyses. Anticancer effects are linked to complex molecular mechanisms, such as DNA mutagenesis, cell cycle progression, de novo expression of cell death signalling pathways, and alterations to mitochondrial function. A plant tissue culture method that is useful for conservation may better secure future populations of this species in areas where agricultural lands are causing biodiversity losses. The metabolomic distinctness that correlates with the unique bioactivity of wild rooibos underlines the importance of maintaining these ecotypes for future generations.

Supervisor: Prof NP Makunga Co-supervisors: Prof A-M Engelbrecht, Dr DW Olivier (external)

Faculty of Science Fakulteit Natuurwetenskappe

OTHER QUALIFICATIONS | ANDER KWALIFIKASIES

Master of Science Magister in die Natuurwetenskappe

Abrahams, Claudia Cathrine (Biochemistry)

Adande, Clement (Mathematical Sciences) (cum laude)

Aliyu, Jamiu (Mathematics) (cum laude)

Allsopp, Daniel Hugh (Genetics)

Arendse, Shannon Deslene (Bioinformatics and

Computational Biology)

Averia, Glenn Gregorio (Biochemistry) (cum laude)

Babenko, Darya (Microbiology) (cum laude)

Bell, Jonathan James Andrew (Zoology)

Bezuidenhout, Sherwin Heinrich (Biochemistry) (cum laude)

Bosman, Philippus Rudolph (Genetics)

Bossert, Aidan (Botany) (cum laude)

Botes, Shenine (Machine Learning and Artificial Intelligence)

Bowles, Brian Keith (Microbiology) (cum laude)

Brown, Zoë Alexandra (Polymer Science)

Carlton, Luke Roos (Earth Sciences) (cum laude)

Chola, Natasha (Mathematical Sciences)

Churchill, Keowyn (Chemistry)

Collins, Megan (Genetics)

Courtaillac, Kira Lee (Zoology) *(cum laude)* De Villiers, Cornelius Johannes (Physics)

De Wet, Emile (Chemistry)

Du Plessis, Anna (Bioinformatics and Computational Biology) (cum laude)

Du Plessis, Le Roi (Physics)

Dyer, Georgia (Plant Biotechnology)

Everts, Kelsey Alana (Physics) (cum laude)

Fekede, Helen (Mathematical Sciences)

Folscher, Nicholas Christian (Physics) (cum laude)

Gaoaaga, Kereemang (Earth Sciences) Germeshuisen, Elzena (Earth Sciences)

Grobler, Petrus Cornelius Jacobus (Zoology) (cum laude)

Gunkel, Kallyn Graham Roger (Zoology)

Hansen, James Nathan (Machine Learning and Artificial Intelligence)

Hanslow, Megan (Biochemistry) (cum laude)

Heusdens, Danica Aimee (Bioinformatics and

Computational Biology)

Hingle, John Stephen (Physiological Sciences) (cum laude)

Holster, Keshia Joan (Genetics)

Hund, James (Machine Learning and Artificial

Intelligence) (cum laude)

Jones, Cameron (Polymer Science)

Jones, Comfort Sunday (Mathematical Sciences) (cum

Justus, Claudia Ledbury (Mathematics)

Kabinde, Ingrid Thandeka (Mathematical Sciences) *(cum laude)*

Kagarabi, Emmanuel Nyandu (Mathematical Sciences)

Kersten, Marko Ortwin (Biochemistry) (cum laude)

Koh, Tammara Poa Siang (Bioinformatics and

Computational Biology) (cum laude)

Kruger, Kian (Genetics)

Le Roux, Pierre (Machine Learning and Artificial

Intelligence)

Masiya, Elvis (Computer Science)

Mboudjiho, Annette Dariose Diffo (Mathematical

Sciences)

Mbuyisa, Busisiwe (Physics)

Mbuyisa, Yenziwe Ngenzeni (Zoology)

Mitchell, Jemma Kate (Zoology)

Moodley, Buren Logan (Plant Biotechnology)

Mouton, Alexander (Computer Science) (cum laude)

Muzenda, Florence Lisa (Biochemistry)

Naab, Williams (Mathematical Sciences)

Nel, Jaydee (Biochemistry) (cum laude)

Netshikulwe, Khuliso (Earth Sciences) (cum laude)

Niemandt, Corne (Earth Sciences)

Nkentsha, Zenande (Physiological Sciences)

Olsson, Sebastian (Chemistry) (cum laude)

Petersen, Damian Alvin (Physics) (cum laude)

Potgieter, Tiqvah Talya (Bioinformatics and Computational Biology)

Raath, Ruan Francois (Earth Sciences) (cum laude)

Redelinghuys, Karla (Genetics) (cum laude)

Rifai, Aisha Salim (Zoology)

Robertson, Duncan James (Bioinformatics and

Computational Biology)

Robson, Damian (Physics)

Roos, Lucas (Computer Science) (cum laude)

Rossouw, Emma Isabelle (Zoology) (cum laude)

Roux, Mariek (Genetics)

Scott, Sarah Anne (Chemistry)

Smit, Reuben (Machine Learning and Artificial

Intelligence)

Tambe, Azraa (Biochemistry) (cum laude)

Tchokonte-Nana, Philo Chaverley Kamani (Bioinformatics

and Computational Biology)

Van der Merwe, Jaymie (Physics)

Van Niekerk, Nadia (Computer Science) (cum laude)

Van Zyl, Carli (Geography and Environmental Studies) (cum laude)

Van Eeden, Louis Burger (Earth Sciences)

Vilmorin, Yvan Marcel Carre (Mathematical Sciences) (cum laude)

Vorster, Melissa Sona (Bioinformatics and Computational Biology) *(cum laude)*

Weightman, Michael William (Chemistry)

Wessels, Francel (Biochemistry) (cum laude)

Bachelor of Science Honours

Honneurs-Baccalaureus in die Natuurwetenskappe

Anderson, Kian Luke (Computer Science) (cum laude)

Badrodin, Muktaar (Genetics) Basson, Kristen (Genetics)

Braithwaite, Philippa Rosemary (Bioinformatics and

Computational Biology) (cum laude) Bunch, Cameron James (Biochemistry)

Kabeya, Furaha (Bioinformatics and Computational

Biology)

Medupe, Tshiamo (Bioinformatics and Computational

Biology) (cum laude)

Mvukwe, Brian Tafara (Computer Science)

Ngoaile, Irvin Carvin (Mathematics)

Shearer, Ryan (Physics)

Steytler, Joshua Charles (Computer Science)

Xulu. Celiwe (Earth Sciences)

Bachelor of Data Science Baccalaureus in Datawetenskap

Singh, Shriyan

Bachelor of Science

Baccalaureus in die Natuurwetenskappe

Africa, Ronalee

Arendse, Azaria Michelle Arendse, Keziah Andreá Badenhorst, Denise Cecilia

Basson, Kristen Basson, Kyla Bennett, Jemma Beukes, Crystal Beukes, Jana-Mari

Bezuidenhout, Jano Zantis Blankenberg, Joy Lynne

Bonaparte, Cole Brady, Sarah Anne

Brett, Benjamin Tickner (cum laude)

Brown, Tatum Jill Bydawell, Luke Cane, Jason

Cason, Bronwyn Sian Catto, Hannah Emily Ceres, Mogamat Yusuf Ceylon, Darren Courtney

Cindi, Thabo Gift Coetzee, Thomas

Cordeiro Da Silva Leitao Ribeiro, Nuria

Cowling, Kealan Eric Davies, Chad Robert

De Franchi, Chiara Francesca

De Goede, Andre De Villiers, Kaela De Villiers, Luc De Wet, Eljah Louise De Wet, Patrick Ross Deolekar, Khushi

Dike. Ezawo

Dlamini. Mluleki Lulama Muzi

Dodgen, Nazier

Domingos, Selena Margerita Dore, Emma Catherine Du Plessis, Francois Pierre Du Toit, David Jacobus Du Toit, Sheila Elizabeth Dube, Amahle Asande Erasmus, Kayla

Firmani, Alissa Fourie, Emma Georgia

Evans, Jade Nicole

Fourie, Gina Toni

Fourie, Liam Mark Danger Frayne, Samantha

Gama, Palesa Jada

George, Grace Alison Margaret

Guqa, Zanele Hansen, Ryan Hayman, Neve Holly Hazell, James Kenneth

Hess. Jessie

Heyns, Ruan Anfred Holmes, Gabriella Colleen

Jacobs, Meagan James, Aule Kieron Jansen van Vuuren, Ame

Jefferys, Raelyn

Jewaskiewitz, Zanru Zurich

Joyi, Lando

Kapnias, Michaela Despina

Khan, Ra'eesah

Kilgour, Payton Marcelle

Kraus, Luke Kubheka, Karabo

Kuhn, Theresa Amicie Ellen

Kusluoglu, Dogan Lee, Sanga

Lekate, Olebogeng Reitumetse

Leveton, Jessica

Lott, Katelynn Veronique

Maake, Bruce

Macingwane, Sikhokelo Mahlangu, Zodwa Nobuhle

Maliwa, Ongeziwe

Mangiagalli, Michelle Helena Margolis, Oren Samuel Matabeya, Paida Polite Mbomvana, Sphiwokuhle Mbulungeni, Mvuko McCallum, Aerin Rose Mckay, Alexander

Mckay, Anna Merzbacher, Kai Meyer, Mia

Midlane, Dylan James Mienie, Wiehann Louw

Mkhize, Amkela Wandiswa Zesande

Mogale, Kealeboga

Mohlomi, Kekeletso Shanel Monnakgotla, Nkosikhona

Moodliar, Senayah Moodliar, Yvania Moshole, Molatelo Paballo Mosiapoe, Tuduetso Francinah

Moss, Courtney Mostert, Ineke

Motlemekoane, Lindiwe Stella

Mthombeni, Thabo Naidoo, Davryn

Nel, Jacoba Magdalena

Nel, Julian Skye Nel, Tiaan Nell, John Hay

Ngcongwane, Nokuthula Erica

Nichols, Caitlin Jade Nkala, Sisanda Khanyile Nkoe, Realeboha Lesedi Lucia Nogilana, Siphesihle Xolile

Ntshangase, Mongezi Senzelwe Uyamangalisa

Ntsoele, Kgotso Thabo *(cum laude)* Nyembe, Ziphozonke Albertoria Oddy, Samuel John Welfit

Olivier, Ronit

Panteleeva, Alexandra Patidar, Bhavika

Pattison, Hayley Michelle (cum laude)

Pentz, Michael James Phoku, Samukelo Carven

Piek, Marichen Pillay, Kiara

Portelli, Lynda Monique Pretorius, Riandri Stefanie

Rakobela, Karabo

Redinger, Matthew Pierre Retief, Daniel Johannes

Retief, Daniella Reyneke, Milano

Ribeiro, Claudia Gabriella

Rogel, Emma

Rohwer, Nicola Danielle (cum laude)

Rosant, Ashleigh Sarkozi, Stevie-Ann Scherzer, Nathan Daniel Schoeman, Cody Schoonraad, Marise

Sibanda, Dillon Moeketsi Bashie

Sikritshi, Avuyile

Seconna. Xena

Sinclair, David Beaumont Somagaca, Sijabulile

Stander, Lea

Steffensen, Kelvin Andrew Strike-Nakar, Noa Raphael Swanepoel, Cara-Lee

Tanner, Jody Theron, Chris Tiaan Theron, Clarise (cum laude)

Theron, Francois
Thete, Account Lulama

Tjivau, Vetjiwa Toefy, Nuhaa

Tombs, Kelsey Ashleigh Sarah

Tomlinson, Chelsea Tozela, Simamkele Umah, Ugochi Gift Van Aarde, Madeli Van Deventer, Emma Van Eetveldt, Anja Van Niekerk, Dihan

Van Rooyen, Abbigale Samantha

Van Wyk, Migael Venter, Lorre Cian Vermaak, Shani Vilioen, Ambrosia Jade

Viljoen, Steffan Visser, Mia Visser, Mienke

Webb, Keren Ashleigh Weeden, Alexia Kathryn Whitehead, Byron Thomas

Wolfaardt, Elonke

Bachelor of Science in Computer Science Baccalaureus in die Natuurwetenskappe in Rekenaarwetenskap

Abbott, Liam Brian Abid, Adam Bakker, Victor Botha, Louis

Cronjé, Pieter-Ruan
Du Preez, Jean-Pierre
Hoffman, Chaniah
Hough, Estiaan
Kisten, Kéuran
Liabara, Yedidia
Manley, Michael Jon
Naidoo, Rohan Liam
Oosthuyse, Matthew Dean
Pretorius, Petrus Jacobus

Ramsing, Ashvir Reid, Daniel Robert Salman, Azile Shrestha, Anson Vinjwa, Sthembiso

Voiat. Lara

Walters, Matthys Wouter

Xhamela, Sango

Faculty of AgriSciences 25 March 2025 | 17:00

Fakulteit AgriWetenskappe

25 Maart 2025 | 17:00

Programme

Please stand 1. Entrance of academic procession into the hall.

Please stand 2. Playing of the National Anthem.

Please sit 3. Congregation formally constituted by the Chancellor.

4. Welcome by the Chancellor.

5. Presentation of candidates receiving qualifications by the dean of the faculty and conferment of qualifications by the Chancellor.

6. Closing by the Chancellor.

Please stand 7. The academic procession leaves the stage.

Program

Staan asseblief 1. Akademiese prosessie kom die saal binne.

Staan asseblief 2. Speel van die Nasionale Lied.

Sit asseblief 3. Formele konstituering deur die Kanselier.

4. Verwelkoming deur die Kanselier.

5. Voorstelling van kandidate wat kwalifikasies ontvang deur die dekaan van die fakulteit en toekenning van kwalifikasies deur die Kanselier.

6. Sluiting deur die Kanselier.

Staan asseblief 7. Akademiese prosessie verlaat die verhoog.

Faculty of AgriSciences Fakulteit AgriWetenskappe

DOCTORAL QUALIFICATIONS | DOKTORALE KWALIFIKASIES

DOCTOR OF SCIENCE | DOKTOR IN DIE NATUURWETENSKAPPE

FOX, Glen Patrick (Food Science)

Variation in barley quality and its impact on malting and brewing

Barley has been used to make beer for over 10 000 years. The quality of the barley is important for both malting and brewing. This body of work synthesises the candidate's findings on the major components in barley, i.e. starch and protein, accumulated over a 30-year research career. Detailed compositional analysis of starch and protein shows how starch structure and specific proteins impact malting and brewing efficiency. The use of modern technologies such as differential scanning calorimetry and proteomics contributes to a deeper understanding of barley quality. The research contributions inform the malting and barley industry on improved quality testing and processing.

Supervisor: Prof M Manley

DOCTOR OF PHILOSOPHY DOKTOR IN DIE WYSBEGEERTE

AKELLO, Scovia (Wood Product Science)

The effect of fertilization, water availability, wind, and other environmental variables on the growth and wood properties of five, young South African-grown *Pinus* species and hybrids

Understanding early-stage wood property variation is critical for South African-grown pines, which are used predominantly in structural applications. This research involved a study of young 2-year-old and 12-year-old trees from five *Pinus* species and hybrids. Results showed that fertiliser and wind treatments had no significant effect on the growth or wood properties of 2-year-old trees, while compression wood formation had a significant effect on wood properties. The microfibril angle was more sensitive to environmental signals than wood density in the 12-year-old trees. The research underscores the complex interactions between environmental factors during juvenile growth of various *Pinus* species and hybrids.

Supervisor: Prof CB Wessels Co-supervisors: Profs D Drew, B du Toit **BODENSTEIN**, Douw Casper Gerbrand (Soil Science)

Evaluation of selected global and regional soil maps for soil carbon content modelling of South Africa

This research sought to improve the utilisation of global and regional soil maps for environmental modelling. This was achieved by comparing commonly used soil maps with reference soil databases. Furthermore, a new soil organic carbon map product was created for South Africa. This new map product was used in conjunction with existing soil maps and other environmental databases to model carbon sequestration potential of a region in the country, using a carbon dynamics model. This research improves our understanding of the distribution of South Africa's soil carbon resources, and how these resources could be affected by anthropogenic activities.

Supervisor: Prof CE Clarke Co-supervisor: Dr A Watson (external) **BUKHARI**, Hassan (Conservation Ecology)

The use of ecosystem-based approaches for guiding sustainable development of rivers in data limited environments

A systematic enquiry of decision-support tools used for rivers in developing countries, found low adherence to international good practice, and limited use of ecosystem-based methods. To address this, the transferability of the driver-response relationships at the heart of ecosystem-based methods were evaluated. It was found that rivers are often functionally similar, and that many relationships are spatially transferable for most habitats and biotic indicators assessed, even when underlying species differ. Lastly, the study demonstrated the use of river modelling to discern causal mechanisms that govern ecosystem behaviour, and used these insights to generate broad development and management guidelines

Supervisor: Prof KJ Esler

Co-supervisors: Prof CA Brown (external), Dr AR Joubert (external)

BUTAU-MOCHO, Blessing (Agricultural Sciences)

Comparative Analysis of Household Food Access Indicators in Zimbabwe

The study was conducted in two districts of Zimbabwe to evaluate seven different measures of household food security. The findings revealed significant variability in food security, influenced by socio-economic factors and climate-related shocks. Although there were moderate correlations among the measures, substantial differences emerged in classifying households as food secure or insecure. This highlights that no single measure sufficiently captures the complexities of household food access. A composite approach that integrates elements from all the evaluated metrics is recommended for a more nuanced and comprehensive understanding of household food security.

Supervisor: Prof K Dzama

Co-supervisor: Prof M Mudhara (external)

CAWOOD, Rebecca Ann (Entomology)

Multi-taxon and multi-metric responses of arthropods to habitat disturbance and global change

The Cape Floristic Region faces threats from land transformation, including alien plantations and inappropriate fire regimes. This study investigates how well arthropod taxonomic and functional diversity recovers from either pine removal or after wildfire, while also identifying the environmental factors driving these responses. Arthropod recovery varied, with ant diversity recovering the best over time, yet even they remain different from pristine fynbos after 30 years. Fire had significant effects on arthropods, emphasising their value as bioindicators of environmental change. Key management recommendations include continued pine removal, follow-up alien plant clearing, and careful fire frequency monitoring.

Supervisor: Prof JS Pryke

Co-supervisor: Dr C Seymour (external)

CHUENE, Lesiba Tyrone (Wine Biotechnology)

Exploiting the potential of yeast cell wall chitin for haze reduction in white wines

The denaturation of chitinases and other proteins in botted wines leads to protein haze formation, a serious problem in the global wine industry. This study presents a flow-cytometry-based strategy to isolate yeast strains with increased levels of cell wall chitin. These strains efficiently remove chitinases during wine fermentation, leading to significantly lower haze formation potential in the resulting wines. Electron microscopy and genetic characterisation of these strains reveal structural rearrangements in yeast cell walls, and identify potential target genes responsible for these phenotypes. Besides providing novel scientific insights, the strains have significant commercial potential.

Supervisor: Prof FF Bauer

Co-supervisors: Drs RK Naidoo-Blassoples, D Rossouw

DE VILLIERS, Ancois Carien (Conservation Ecology)

Relational dimensions for transformation and resilience: Exploring inspiration, social capital, and learning in landscape-based initiatives in South Africa

Landscape restoration has been reinterpreted from a technical, short-term intervention to an intentional, ongoing process that transforms social-ecological systems. This study explored the challenges and opportunities of implementing relational thinking and plural valuation to support such an approach to landscape sustainability. The research took the form of a transdisciplinary in-depth case study with Living Lands, a not-for-profit company based in the Eastern Cape. Findings confirm that slow, embedded and reflexive processes support sensemaking and social resilience, but are cognitively, socially and emotionally demanding for those involved, and restricted by predominant funding structures.

Supervisor: Prof KJ Esler

Co-supervisors: Prof M Spierenburg (external), Dr J Cockburn (external)

DE WITT, Marlene (Conservation Ecology)

Exploring managed aquifer recharge as a nature-based solution to water diversification in the Goukou catchment

This study assessed the feasibility of diverting flood peaks for Managed Aquifer Recharge (MAR) to overcome hydrological modelling challenges caused by limited hydroclimatic input data in the water-scarce Goukou River catchment. A conceptual rainfall-runoff model was used to generate natural recharge and percolation maps of the entire catchment and results were validated by stable isotope and stakeholder analyses. Estimated annual inflow into the estuary was substantially lower than required for normal functioning, but the study highlighted the potential for two MAR schemes in the lower part of the catchment to help secure water resources.

Supervisor: Prof F Roets

Co-supervisor: Dr A Watson (external)

FISHER, Ruth-Mary Corne (Conservation Ecology)

Soil hydrophobicity in fynbos: Measuring the impacts of woody invasive alien plant species and fire as well as ecological benefits

Soil hydrophobicity is often found in Mediterranean-type ecosystems, but it is not well-studied in South African Fynbos vegetation. In this study, soil hydrophobicity was commonly found in natural Fynbos, but it is more prevalent during summer. It was shown that altered fire regimes, alien invasive plants, and drought increase the extent of occurrence of soil hydrophobicity in Fynbos, which has negative impacts on Fynbos ecology. For Fynbos management, it is recommended to map the hydrophobic status of soils to aid in erosion risk assessments and to properly plan the timing of prescribed burns.

Supervisor: Prof F Roets

GERBER, Monja (Horticultural Science)

Superficial scald on 'Granny Smith' apples – understanding commercial storage protocols and their limitations

The South African deciduous fruit industry is continuously searching for new techniques to improve the storage quality of apples. 'Granny Smith' apples are prone to a peel-browning disorder called superficial scald, which negatively affects the fruit's appearance. This study explored 12 storage techniques and fruit chemistry to explain the mechanism of action in inhibiting peel browning. Two scald-free protocols, employing a combination of low-oxygen and ripening hormone inhibition treatments were developed. These protocols are now being used with great success in the South African deciduous fruit industry to ensure scald-free 'Granny Smith' apples of top quality.

Supervisor: Dr E Crouch Co-supervisors: Drs MM Jooste (external), IJ Crouch (external), WJ Botes (external)

LAUBSCHER, Anja (Food Science)

The use of near infrared spectroscopy for the analysis of fumonisins in maize

This study investigates near-infrared (NIR) spectroscopy for the rapid analysis of fumonisin B1 (FB1), a carcinogenic mycotoxin produced by *Fusarium* fungi in maize. While preliminary studies in solution achieve FB1 detection at 4 mg/kg with high accuracy, direct quantification in maize proves challenging. However, indirect analysis using NIR spectroscopy successfully classifies *Fusarium*-contaminated ground maize at South Africa's regulatory limit of 2 mg/kg for fumonisins. These findings demonstrate the potential of NIR spectroscopy as a rapid screening tool for fumonisin contamination, advancing analytical capabilities for food safety in the maize industry.

Supervisor: Dr PJ Williams Co-supervisor: Dr LJ Rose

LUKASHE, Noxolo Sweetness (Soil Science)

Exploring the role of water treatment residuals in carbon stabilization in a sandy soil amended with anaerobic digested sludge

Sandy soils lack the clay and oxide minerals required to protect organic matter from biodegradation. This study explored the co-application of oxide-rich potable water treatment wastes with sewage sludge to stabilise organic matter in sandy soils. Co-applying the oxide wastes with sewage sludge was found to reduce carbon losses from the sandy soil. The aluminium oxide waste was better at stabilising organic carbon compared to the iron-based waste. This research contributes to waste management and environmental sustainability by providing a strategy for enhancing soil carbon sequestration and promoting a circular economy.

Supervisor: Prof CE Clarke

Co-supervisors: Prof AG Hardie-Pieters, Dr W Stone (external)

MAMUTSE, Janet (Animal Science)

Comparative transcriptome profiling of ovarian tissues to unravel genetic mechanisms underlying prolificacy in South African sheep

This study investigates the genetic mechanisms of prolificacy in South African sheep by implementing RNA sequencing on ovarian tissues from high and low prolific lines of Dohne Merino and Merino breeds. The objectives are to identify differentially expressed genes (DEGs), key genes, and pathways linked to prolificacy, as well as to explore alternative splicing of transcripts. Results show distinct gene expression patterns, with key pathways linked to oxidative stress, follicular development and follicular cysts. Differential splicing also affects prolificacy. These findings provide insights into the genetic regulation of reproduction in sheep, aiding genomic selection and biomarker identification for improving sheep fertility.

Supervisor: Dr AH Molotsi

Co-supervisors: Profs C Urbano-Braz (external), K Dzama

MAPHOSA, Buhle (Food Science)

Experimental and Modelling-Based Evaluation of Alternatives to Improve the Thermal Performance of Solar Drying of Pomegranate Arils

This study presents a comprehensive and multidisciplinary approach to enhancing solar drying technology. By integrating extensive experimental investigations with advanced computational modelling, it offers valuable insights into optimizing solar drying systems. Through rigorous drying experiments and the development of virtual prototypes using computational fluid dynamics, the study bridges theoretical analysis with practical application. Beyond simulations and lab work, a hands-on approach was taken—cutting, rolling metals, and welding in the workshop to bring innovative solar dryers to life and testing them. The findings contribute significantly to improving thermal performance, making solar drying more efficient and sustainable for agricultural and industrial applications.

Supervisor: Dr AA Tsige

Co-supervisors: Profs UL Opara, OA Fawole (external), GO Sigge

NJOMBOLWANA-SWARTZ, Ncumisa (Plant Pathology)

Studies on the application and efficacy of orange oil as a postharvest disease management strategy on fruit

Postharvest diseases account for significant losses in fresh fruit commodities. Managing these losses is becoming increasingly difficult because of restrictions on the use of synthetic fungicides. Orange and thyme essential oils in various application methodologies are found to be effective as alternative management strategies on citrus, plum and strawberry fruit. In order to mitigate their volatile nature, the candidate formulated the oils into nanoparticles which could be applied alone or incorporated into packaging material. The essential oils were found to stimulate host defence responses when used to manage postharvest diseases.

Supervisor: Dr CL Lennox

Co-supervisors: Drs J Meitz-Hopkins, S Monteiro (external)

NXUMALO, Nkosinathi (Animal Science)

Whole genome sequencing of South African Nguni sheep breed: insights into adaptation to Southern African environments

This study explores the genomic traits of Nguni sheep, more particularly the Zulu ecotype, to understand their adaptation to Southern African environments. The Zulu sheep genome is sequenced and annotated, revealing genes linked to resilience traits such as heat stress resistance and disease immunity. The genome assembly is of high quality, with 44 533 predicted genes. Comparative analyses suggest that the Zulu sheep originated from the same domestication event as European sheep. Structural variants associated with heat stress and disease resistance are identified, offering insights that could enhance breeding programmes for developing more resilient livestock in response to climate change and local challenges.

Supervisor: Dr AH Molotsi

Co-supervisors: Profs C Rhode, N Kunene (external)

OLUWUMI, Oluwadamilola Oluwatemilorun (Agricultural Economics)

A curriculum framework for lifelong learning of emerging Nigerian farmers in financial farm management

This study unveils a groundbreaking curriculum framework for lifelong learning that redefines financial management education for emerging Nigerian farmers. Through a robust mixed-methods approach, the study uncovers critical gaps in financial literacy and training, emphasising the urgent need for practical skills in budgeting, record-keeping, and risk management. By engaging directly with farmers and financial experts, this research not only addresses immediate educational and training needs but also empowers farmers to make informed financial decisions, enhancing their agricultural sustainability. This transformative work stands to significantly impact Nigeria's agricultural landscape, fostering resilience, food security, and economic prosperity for future generations.

Supervisor: Prof TE Kleynhans Co-supervisor: Dr WH Hoffmann

PIENAAR, Louis Otto (Forest Science)

Biomass determination, growth response and light use efficiency of mid-rotation *Pinus radiata* stands post-thinning

This study developed allometric equations for *Pinus radiata* plantations to improve the accuracy of biomass and carbon sequestration calculations. These relationships were also used to calibrate non-destructive techniques needed to estimate changes in leaf area index and light interception. Finally, thinning regimes in forests regulate tree competition and light capture, and it strongly affects harvest products mix and cash flow. Novel thinning techniques (crown thinning) were tested against conventional thinning from below. No significant differences in light capture or light use efficiency were found, indicating that crown thinning is indeed a viable option for pine tree growers.

Supervisor: Prof B du Toit

Co-supervisors: Prof C Wellstein (external), Drs R Calama

(external), J Olivar (external)

ROSSOUW, Manda (Food Science)

Multivariate statistical modelling of sensory quality and Arrhenius shelf-life prediction of flavoured cider

Accurate quality and shelf-life determination is important in flavoured cider production to ensure customer satisfaction and fulfil labelling requirements. This places capacity strain on sensory panels expected to perform large numbers of quality and shelf-life evaluations for new and existing products. To support quality and shelf-life assessment in industry, this study presents predictive models to estimate sensory quality from chemical profiling and fingerprinting data, with subsequent Arrhenius kinetic modelling shelf-life prediction using the modelled sensory scores. Batch variability and maturation-related chemical and sensory changes are characterised by means of multivariate and correlation techniques to explore relationships between sensory attributes and chemical composition.

Supervisor: Prof M Manley
Co-supervisors: Prof F Marini (extern

Co-supervisors: Prof F Marini (external), Dr G van Huyssteen (external)

SEIFERT, Erich (Forest Science)

Optimising UAV Photogrammetry for Forest Structure Assessment and Silvicultural Planning

This study optimises UAV flight parameters to enhance data acquisition, develops a novel Optical Flow algorithm for efficient point cloud reconstruction, and integrates UAV-derived forest metrics into silvicultural planning. Findings show that optimised flight settings significantly improve multi-view reconstructions, while Optical Flow reduces computational costs without compromising accuracy. UAV-based inventory methods provide valuable insights into tree competition and thinning strategies, supporting scalable and precise forest management. These contributions advance UAV applications in forestry, enabling more efficient monitoring and decision-making for sustainable resource management and ecosystem resilience.

Supervisor: Prof D Drew

Co-supervisor: Prof J van Aardt (external)

SMITH, Janis Suzanne (Conservation Ecology)

Re-imagining the role of protected areas in the socialecological landscape: connecting people to nature through water-related ecosystem services

Our valuable freshwater ecosystems are under threat across the planet, and new perspectives are needed on protecting them. This study applies a mixed-methods approach to help find solutions to this issue, exploring the elements required for a shift in social-ecological thinking. The search for solutions includes analysing management plans, developing a zone of interaction, and assessing relational values. Findings suggest that a focus on freshwater and its ecosystem services can be used to simultaneously achieve conservation goals and reconnect society with nature. This has implications for conservation practice, with a particular need for engagement with people living beyond protected-area boundaries.

Supervisor: Dr P O'Farrell (external)

Co-supervisors: Profs D Roux (external), KJ Esler

STRYDOM, Janéne (Horticultural Science)

Table grapes from vineyard to shelf: Response of Crimson Seedless vines and grapes to water supply and microclimate

Table grape vines (Crimson Seedless) were studied under open field (OF) conditions and underneath overhead plastic covering (OPC). Different water volumes were applied. Grape ripening and sensory quality parameters were monitored in the vineyard and during storage. The OPC increased vine water status, but OF vines used water more efficiently. Reaction to water supply was increased under OPC and vines showed less stress than under OF conditions. Grape composition was affected by water supply and/or micro-climate. Compared to farm irrigation volumes, 80% water application under OF conditions and 70% under OPC sufficiently enhanced vegetative growth, yield, and grape quality.

Supervisor: Prof JJ Hunter (external)

Co-supervisor: Dr PJ Raath

THERON, Petrus Johannes (Agricultural Economics)

A curriculum framework for adult learning in financial farm management for practicing commercial farmers in the Western Cape of South Africa

Commercial farms in South Africa are decreasing in number but increasing in size. This trend demands more efficient financial management. Secondary school and tertiary non-commercial training do not prepare farmers adequately for complicated financial decision-making in commercial farming. The main contribution of this study resides in a proposed curriculum framework for a financial management short course for commercial farmers. This course is grounded in real-world farming experiences as reported by practising farmers and financial management experts who support farmers. This study demonstrated how relevant course content can be determined to more effectively facilitate adult and lifelong learning in agriculture

Supervisor: Prof TE Kleynhans Co-supervisor: Dr WH Hoffmann

VAN ZYL, Elisma (Food Science)

The impact of enrichment bias on the detection and genomic characterisation of *Listeria monocytogenes* sequence types

Listeria monocytogenes causes severe illness through contaminated food. Its persistence in food processing and clinical settings makes its study vital. Whole genome sequencing (WGS) has revolutionised outbreak investigations, notably during the 2018 South African outbreak. This study examines enrichment bias on chromogenic selective agar that may affect WGS outcomes. A method was developed to visualise bias, laying the foundation for statistical sampling of selective agar plates. Fluorescent labelling was explored to demonstrate enrichment bias on sequence type level. The research emphasises the value of integrating statistical sampling into WGS workflows to improve accuracy in routine surveillance and outbreak investigations, thereby advancing food safety.

Supervisor: Prof PA Gouws Co-supervisor: Dr S Hayward

VERVALLE, Jessica Annemarie (Genetics)

Molecular mapping of fruit quality traits in grapevine

Advanced genetic techniques are increasingly implemented for modern grapevine breeding. This study created a highly detailed genetic map to better understand the grapevine's DNA structure. By studying specific grape varieties, genetic markers and key genome regions linked to colour pigmentation, grape bunch formation and berry surface wax were found. Metabolic and genetic analysis of wax formation revealed dynamic compositional changes and identified VVTTPS12 as a crucial gene for the synthesis of the predominant compound, oleanolic acid. These findings provide valuable insights into grape genetics and will help breeders develop improved and more sustainable grape varieties in the future.

Supervisor: Prof R Roodt-Wilding
Co-supervisors: Prof MA Vivier, Drs P Burger (external), KR
Tobutt (external), JG Lashbrooke

VILJOEN, Charné (Agronomy)

The potential allelopathic effects of cover crops on the suppression of weeds and wheat production in the Western Cape

The study evaluated how different cover crops, used in rotation with wheat, affects weed dynamics and weed suppression through competition, biomass production, and allelopathy. The effect of the cover crops on subsequent wheat yield was also investigated. Cereal cover crops excel at weed suppression, while brassica species result in early light interception. Leguminous cover crops enhance soil nitrogen for subsequent crops. Some cover crop species compete through resource capture, while others compete through allelopathy. Cover crops effectively suppress weeds in-season, but additional management strategies are needed in the following crop cycle, as subsequent wheat yield was not significantly improved.

Supervisor: Prof PA Swanepoel Co-supervisors: Dr PJ Pieterse, Prof JA Strauss (external)

Faculty of AgriSciences Fakulteit AgriWetenskappe

OTHER QUALIFICATIONS | ANDER KWALIFIKASIES

Master of Science Magister in die Natuurwetenskappe

Africa, Jesse (Wine Biotechnology)

Atkins, Sydney (Agricultural Sciences) (cum laude)

Bergen, Joshua (Sustainable Agriculture)

Diljee, Riyana (Wine Biotechnology)

Henecke, Nicola Arend (Wine Biotechnology)

Jacobs, Safiyyah (Plant Pathology) (cum laude)

Mahlo, Mashoto (Wine Biotechnology)

Marutha, Tebogo Mmanonyane Michelle (Plant Pathology)

Molapo, Mpho (Sustainable Agriculture)

Padayachy, Tanika (Wine Biotechnology) (cum laude)

Roodt, Xander (Wine Biotechnology) (cum laude)

Setai, Basetsana Ntombizodwa Leah (Sustainable Agriculture)

Somtsewu, Lizalise (Sustainable Agriculture)

Strydom, Georgia (Wine Biotechnology) (cum laude)

Van Rooyen, Micke (Entomology) (cum laude)

Master of Science in Agriculture Magister in die Natuurwetenskappe in Landbou

Aartsma, Hanli (Animal Science) (cum laude)

Aucamp, Armand (Horticultural Science) (cum laude)

Augustyn, Hanneke (Agronomy)

Boateng, Melissa Nana Yaa (Agricultural Economics) *(cum laude)*

Broeksma, Anton Emil (Plant Pathology)

Cronje, Carla (Horticultural Science)

De Beer, Danielle (Animal Science)

De Jager, Helette (Horticultural Science) (cum laude)

De la Harpe, Jean Etienne (Animal Science) (cum laude)

Dippenaar, Liza-Mari (Horticultural Science)

Dove, Brittany May (Soil Science) (cum laude)

Du Toit, Jan Stephanus (Agronomy)

Ebrahim, Sameera Bibi (Agricultural Economics)

Eksteen, Liana (Animal Science)

Engelbrecht, Karyn (Entomology)

Ferreira, Jana (Animal Science)

Ferreira, Nicole (Animal Science)

Guest, Matthew Daniel (Agricultural Economics) (cum

Harms, Nicole Greta (Animal Science)

Hols, Reinhard Willem Brieërs (Agronomy)

Hough, Wilmie (Animal Science)

Janse van Rensburg, Kara Rain (Plant Pathology) *(cum laude)*

Lombard, Anderson (Entomology)

Lotz, Nelleke (Animal Science)

Mabitsela, Mmakwena Velicia (Agronomy) (cum laude)

Matthee, Anné (Plant Pathology)

Matthysen, Lourens Petrus (Agricultural Economics)

Mbongwe, Khwezi Andile (Agricultural Economics) (cum

Mofokeng, Dimakatso (Agricultural Economics)

Mogale, Nailana Bridgett (Agricultural Economics)

Mouton, Abraham Coenrad (Horticultural Science)

Mrwebi, Buhle (Agricultural Economics)

Murray, Jenna Paige (Animal Science)

Muyima, Gracia (Agricultural Economics)

Oliva-Mancilla, Rodrigo Andres (Viticulture)

Rheeder, Paul Johan (Soil Science)

Rice, Joshua Arthur (Animal Science)

Riet, Robin Laiken (Agronomy)

Schnugh, Monique (Animal Science)

Smith, Annaline (Horticultural Science)

Smit, Hendrik (Animal Science)

Steyn, Lynette (Agricultural Economics)

Theiner, Claudia (Animal Science)

Trollip, Zandelie (Agricultural Economics)

Van Blerk, Karlo Rolf (Agronomy)

Van der Hoven, Madeleine Anne (Genetics)

Van der Westhuizen, Isak Andries Nicolas (Animal Science)

Van der Westhuizen, Thomas Nicolaas John (Soil Science)

Van Deventer, Lisa (Animal Science)

Van Schalkwyk, Elzette (Animal Science)

Van Wyk, Jancke (Agronomy)

Van Zyl, Gerrit Bruwer (Soil Science)

Van Zyl, Helena Maria (Horticultural Science)

Viljoen, Monika (Animal Science) (cum laude)

Master of Science in Forestry and Wood Sciences Magister in die Natuurwetenskappe in Bosbou- en Houtwetenskappe

Jayeola, Victor (Wood Product Science)

Jordaan, Michelle (Forest Science)

Ngqebane, Ayanda (Wood Product Science)

Park, Jina (Forest Science)

Plekker, Braden Michael Ewald (Forest Science)

Van Eyssen, Matthew (Forest Science)

Master of Science in Conservation Ecology Magister in die Natuurwetenskappe in Bewaringsekologie

Durie, Joshua Ian (Conservation Ecology)

Mbombo, Bongiwe (Conservation Ecology)

Morake, Kgomotso (Conservation Ecology)

Raubenheimer, Inge (Conservation Ecology) (cum laude)

Rowland, Roxanne (Conservation Ecology) (cum laude)

Master of Science in Food and Nutrition Security Magister in die Natuurwetenskappe in Voedsel- en Voedingsekerheid

Bhowon, Iksha (Food and Nutrition Security) (cum laude)
Dempers, Bianca (Food and Nutrition Security) (cum laude)

Gqagqa, Afika Gift (Food and Nutrition Security)
Karutjaiva, Mbapeua (Food and Nutrition Security)
Kikine, Tshepo Ferdinard (Food and Nutrition Security)
Makara, Mpaki Odilon (Food and Nutrition Security)
Matsikidze, Stenford Ngonidzashe (Food and Nutrition Security)

Mccrorie, Ethan Anton (Food and Nutrition Security) Mohlala, Lebogang Nthabiseng (Food and Nutrition Security)

Moyo, Sithokozile (Food and Nutrition Security) Steyn, Sabrina (Food and Nutrition Security)

Master of Science in Food Science Magister in die Natuurwetenskappe in Voedselwetenskap

Featherstone, Susan Olivier, Jacques Pretorius, Elizabeth Carli (cum laude)

Master of Agriculture Magister in die Landbou

Appel, Marco (Agricultural Economics)
Flint, Luke John (Agricultural Economics)
Pule, Puleng Moremi (Agricultural Economics)
Rossouw, Jacoba Johanna (Agricultural Economics)

Bachelor of Science Honours Honneurs-Baccalaureus in die Natuurwetenskappe

Yako, Zukhanye (Plant Pathology)

Postgraduate Diploma in Forestry and Wood Sciences Nagraadse Diploma in Bosbou- en Houtwetenskappe

Kamwendo, David

Postgraduate Diploma in Agronomy Nagraadse Diploma in Agronomie

Cogills, Kelly Amber Make, Khanyisa Lithemba Marimi, Tsakani Pertunia Mohube, Khanyo Mpetshwa, Inathi Sinobomi Stemmet, Mickél Johan Van Zyl, Petrus Stephanus

Bachelor of Science in Agriculture Baccalaureus in die Natuurwetenskappe in Landbou

De Abreu, Jessica Mary (Viticulture and Oenology) Dreyer, Jacobus (Animal Science) Dyobela, Chumani (Plant and Soil Science) Fisher, Monique Linelle (Viticulture and Oenology) Guthrie, Jaime Kenneth (Agricultural Economics) Hohlo, Bestman Tawanda Mutemi (Viticulture and Oenology)

Kantuchitani, Shanice Tadiwanashe (Animal Science)
Lewis, Pierre Gerhard (Plant and Soil Science)
Mgunculu, Unakho (Agricultural Economics)
Minnie, Juanita Carina (Viticulture and Oenology)
Muir, Cameron James (Viticulture and Oenology)
Myburgh, Albert Jacobus (Agricultural Economics)
Nhlapo, Jessica Thandeka (Animal Science)
Paton, Dale (Viticulture and Oenology)
Smit, Abraham Jozua (Plant and Soil Science)
Uys, Johannes Frederik (Agricultural Economics)
Venter, Johannes Christiaan (Animal Science)
Viljoen, Mia (Plant and Soil Science)

Bachelor of Science in Forestry and Wood Science Baccalaureus in die Natuurwetenskappe Bosbou- en Houtwetenskappe

Kilana, Siviwe Nesbitt, Nicholas

Bachelor of Science in Food Science Baccalaureus in die Natuurwetenskappe in Voedselwetenskap

Hoboyi, Anelisa

Bachelor of Agriculture Baccalaureus in Landbou

Alberts, Adrian Pienaar (Agri-Business Management)

Altona-De Klerk, Robert Stuart

Bester, Johannes Willem

Beukes, Matthew

Blanckenberg, Hanu Brandt

Cele. Sisanda Anele

Coetzee, Karli

De Vries, Carlo Linder

Gouws, Jan-Hendrik

Jooste, Petro

Julies, Reece Thomas

Louwrens, Hendrik

Ngwane, Lathitha-Ilanga (Agri-Business Management)

Nortje, Tobie Johan Marthinus

Plath, Jed

Sindane, Lesego Tshiamo Keoneilwe (Agri-Business Management)

Uys, Daiyaan (Agri-Business Management)

Uys, Malachai (Agri-Business Management)

Willemse, Christiaan Alberts

Willis, Matthew (Agri-Business Management)

Wood Rourke Hellier (Agri-Business Management)

Zevenster, Jeandre Johan



Fakulteit Ekonomiese en Bestuurswetenskappe (Groep 1) 26 Maart 2025 | 09:00

Programme

Please stand 1. Entrance of academic procession into the hall.

Please stand 2. Playing of the National Anthem.

Please sit 3. Congregation formally constituted by the Chancellor.

4. Welcome by the Chancellor.

5. Presentation of candidates receiving qualifications by the dean of the faculty and conferment of qualifications by the Chancellor.

6. Closing by the Chancellor.

Please stand 7. The academic procession leaves the stage.

Program

Staan asseblief 1. Akademiese prosessie kom die saal binne.

Staan asseblief 2. Speel van die Nasionale Lied.

Sit asseblief 3. Formele konstituering deur die Kanselier.

4. Verwelkoming deur die Kanselier.

5. Voorstelling van kandidate wat kwalifikasies ontvang deur die dekaan van die fakulteit en toekenning van kwalifikasies deur die Kanselier.

6. Sluiting deur die Kanselier.

Staan asseblief 7. Akademiese prosessie verlaat die verhoog.

Faculty of Economic and Management Sciences (Group 1) Fakulteit Ekonomiese en Bestuurswetenskappe (Groep 1)

DOCTORAL QUALIFICATIONS | DOKTORALE KWALIFIKASIES

DOCTOR OF PHILOSOPHY DOKTOR IN DIE WYSBEGEERTE

DELPORT, Marthinus (Industrial Psychology)

The impact of Technostress on Work Exhaustion in Higher Education from a Boundary Management perspective: A multi-phase quantitative study

This study examines the role of boundary management behaviours in mitigating the adverse effects of technostress on work exhaustion in the context of the Fourth Industrial Revolution. It uses an explanatory research design with a cross-sectional dataset (N = 521) to investigate three research questions. The findings indicate that technostress hinders recovery and prevents psychological detachment from work-related tasks during employees' time off. High work centrality and strong organisational norms promoting work-home integration emerge as potential risk factors impeding boundary enactment. Consequently, both individual and organisational-level interventions are recommended. Male and female employees appear to navigate the work-life interface similarly.

Supervisor: Prof G Görgens

NEL, Kara (Business Management)

Corporate social responsibility perceptions: a South African institutional investor perspective

This study explores South African institutional investors' perceptions of corporate social responsibility (CSR) in their investment decisions. By conducting a systematic literature review, content analysis and interviews, it identifies key CSR dimensions, sustainability themes, and challenges in responsible investment. Findings reveal that these investors prioritise climate action, social infrastructure and ethical practices, but experience obstacles such as limited market size, reporting inconsistencies, and low client demand. To enhance sustainable investment, increased transparency and improved social impact measurement are required. Ultimately, the study provides insights to align financial success with societal wellbeing, shaping responsible investment practices in a prominent emerging market.

Supervisor: Prof PD Erasmus Co-supervisor: Prof N Mans-Kemp ROUX, Elze-Mari (Business Management)

Robust retirement planning models

This study considers methods of specifying retirement savings contribution rates that result in individuals maintaining their pre-retirement consumption levels after retiring. It specifically explores how the results are affected by changes in the environment or in behaviour. The research focuses on changes in income tax (or tax incentives), real salary increases, and lifestyle investments (that can curtail retirement savings for a limited period). It shows how changes in each of these will affect the retirement savings contribution rate where individuals can maintain their pre-retirement consumption levels after retiring. The study also presents procedures to specify this in practice.

Supervisor: Prof JU de Villiers Co-supervisor: Prof PD Erasmus

STEYN, Matthys Lucas (Mathematical Statistics)

Open-set recognition using extreme value theory

This study addresses the challenge of open-set recognition by accurately identifying unknown classes not seen during training. Novel methodologies grounded in extreme value theory are introduced, including a k-nearest neighbour open-set classifier and an enhanced contrastive-centre loss to generate a more discriminative feature space. An end-to-end neural network architecture is introduced to integrate the neural network training and the extreme value theory-based estimation processes. The proposed approaches significantly improve the discrimination between known and unknown classes, demonstrating superior performance across diverse datasets and advancing the robustness of deep learning models. These innovations improve reliability and uncertainty quantification in real-world applications.

Supervisor: Prof T de Wet Co-supervisors: Profs S Luca (external), B de Baets (external)

VAN TONDER, Grethe (Business Management)

Patient acceptance of an application-based primary care telemedicine service: a South African public healthcare sector study

Telemedicine services increase access to primary healthcare. This study investigates the relationships between telemedicine service acceptance, perceived value, patient participation, patient satisfaction with a telemedicine service, patient trust in telemedicine services, and two dependent variables (continuance intention towards a telemedicine service, and continuance intention towards a telemedicine service provider). Following an exploratory sequential mixed-methods approach, the study makes novel contributions to theory and practice by identifying antecedents of telemedicine acceptance in the South African public-sector context. Two novel antecedents, namely (positive) privacy perception and care perception, are identified. Recommendations for theory development and app-based primary healthcare development are made.

Supervisor: Prof CD Pentz

Co-supervisor: Prof R du Preez-Snyman

VORSTER, Izel Alet (Business Management)

The use of voice-overs in radio advertising

It is well known that consumers are exposed to multiple advertising messages every day and it is becoming increasingly difficult for advertisers to attract and maintain consumers' attention. The primary purpose of the study was to assess the influence that different voice-over types may have on the consumers' subconscious processing of a radio advertisement. Neurophysiological research methods were used to analyse how different voice types were processed. The study also considered the moderating effects of appeal type and product category. The candidate has demonstrated that voice-overs are not processed in the same way by all consumers and that the experience of a specific radio advertisement can be altered by simply changing the type of voice used. In addition, a specific voice type may be a better fit for a certain advertisement, and the appropriateness of a voice may depend on the product category, advertising appeal, as well as the gender of the target audience. The study also makes a key methodological contribution by demonstrating the value of analysing different voice-over types in radio advertising using neurophysiological research methods.

Supervisor: Prof C Boshoff

Faculty of Economic and Management Sciences (Group 1) Fakulteit Ekonomiese en Bestuurswetenskappe (Groep 1)

OTHER QUALIFICATIONS | ANDER KWALIFIKASIES

Master of Commerce Magister in die Handelswetenskappe

Adams, Dalin Enrique (Industrial Psychology)
Ashworth, Brett (Logistics Management) (cum laude)
Barnard, Brendon (Industrial Psychology) (cum laude)
Battiston, Maegan Gemma (Operations Research) (cum laude)

Botha, Willem Eduard (Industrial Psychology)
Dodd, James Andrew (Financial Risk Management)
Hansmeyer, Joss (Business Management) (cum laude)
Hoosain, Khadija (Industrial Psychology) (cum laude)
Janse Van Rensburg, Jane (Industrial Psychology) (cum laude)

Karsten, Michelle (Industrial Psychology) (cum laude) Leibrandt, Daylan (Financial Risk Management) (cum laude)

Louwrens, Lee-Ann (Business Management) *(cum laude)*Mallinson, Marie Louise (Industrial Psychology) *(cum laude)*

Manefeldt, Peter Cornelius (Statistics)

Marshall, Chrisley Bea (Industrial Psychology) (cum laude) Meyer, Laura (Logistics Management) (cum laude) Mouton, Andries (Logistics Management) (cum laude) Neethling, Johannes Henoch (Logistics Management) Ramaisa, Mokgeseng (Mathematical Statistics) Spoelstra, Marli (Industrial Psychology)

Van den Heever, Rene (Human Resources Management) Van der Walt, Maria Magdalena (Industrial Psychology) (cum laude)

Master of Philosophy Magister in die Wysbegeerte

Bening, Joyce Emakayor (HIV/AIDS Management)
Cenga, Oyena (HIV/AIDS Management)
Gcisa, Kutala Theodorah (HIV/AIDS Management)
Kodravele, Batako Obed (HIV/AIDS Management)
Mhlongo, Lindelwa (HIV/AIDS Management)
Mhlongo, Mongezi Luyanda (HIV/AIDS Management)
Seisa, Katleho (HIV/AIDS Management)
Vika, Ayabonga (HIV/AIDS Management)

Bachelor of Commerce Honours Honneurs-Baccalaureus in die Handelswetenskappe

De Bruyn, Fia (Logistics Management)
Dicey, Taylor (Business Management)
Edward, George (Financial Risk Management)
Grundlingh, Jan-Louis (Logistics Management) (cum

Hodgkinson, Matthew Craig (Business Management) Kalihonda, Agnes Mantengo Vanyenga (Transport Economics) Moos, Huda (Logistics Management) Motene, Mbali Blessing (Industrial Psychology) Pilime, Ashley Nothando (Mathematical Statistics) Samson, Luke Sky (Logistics Management)

Postgraduate Diploma in Strategic Human Resources Management

Nagraadse Diploma in Strategiese Menslikehulpbronbestuur

Mohobo, Mpheng Oliphant, Lukhanyo Silume, Eugine

Postgraduate Diploma in Transport and Logistics Nagraadse Diploma in Vervoer en Logistiek

Magqo, Sesethu Mahlumba, Mamello Patience Keyla Mulovhedzi, Lufuno Charity Ngqame, Sibabalwe Pick, Andrew Lawrence Zimanyiwa, Tinotenda Ethel

Postgraduate Diploma in HIV/Aids Management Nagraadse Diploma in MIV/Vigsbestuur

Atangana Noah, Steve Anthony Bahlehle, Zintle

Dantente, Zinte

Bandezi, Usisipho (cum laude)

Biyela, Nokuthula Sanele

Bogatsu, Remofilwe Motlalepula Gladys

Bosetsi, Angie Botha, Lehan

Buthelezi, Samkelisiwe Dumisile

Buys, Chane

Cebekhulu, Precious Spihwe Nonkululeko

Cenga, Ncebakazi Chacha, Samantha

Chamane, Senzeni Happiness

Chipfumbu, Takadiwa

Chokoe, Tlou Daphney (cum laude)

Chonco, Phindile Chubeka, siphokazi Cima, Zubenathi Dakuse, Nozuko

Danisa, Priscilla Thandeka

De Lange, Michaela Danica *(cum laude)* Dlomo, Thandolwethu Thembekile

Dubazane, Nomfundo Dyidi, Busisiwe Joyce Edwards, Karin Fosi, Athembele

Gobeni, Dolly Duduzile

Gumede, Philani Felokwakhe Gusha-Mhlekude, Qiqa

Gustafson, Arno

Hlubi, Nolihle Balungile

Kanime, Walma

Kaumbo, Ngoy Gaylord Kente, Reitumetse

khoboko, Rethabile Natasha Khumalo, Nomcebo Marcia Khumalo, Princess Nokuthula

Kole, Tumisang Kula, Nomaxhosa Lesuthu, Moeti Samuel Limbo, Adkin Zibiso loli, Sphokazi

Lorathu, Obakeng Nicholas Luthuli, Nokuthula Precious

Mabasa, Carol Akani

Mabasa, Manqoba Mlingani Mabitle, Francinah Mamotlalane Mabunda, Sevha Norman Machabe, Mokgaetsi Agnes

Machobane, Mamphuthi (cum laude)

Madikizela, Abusisie

Madolo, Sithembinkosi Evidence Madonsela, Cebile Khabonina

Magadani, Vhulenda

Magagula, Nonkululeko Londiwe Magcaba, Nonkululeko Millicent

Mahada, Tshisikhawe Mahlalela, Emmah Sizakele Majola, Sibongile Lilian Makambi, Anazo

Makambi, Zizo Makgoka, Portia Maleho

Makhanya, Mamello Makhubu, Nomalungelo Cassandra

Makola, Prudence Tlhologelo

Makubu, Nonhlanhla Mali, Neliswa

Maluleke, Avhapfani (cum laude)

Mametja, Vinolia

Managa, Funanani Agrineth

Mandlakhe, Ngwekaxhosa Mndlovu

Manqele, Nzuzo Hopewell Manzi, Nothabo Manzi Maphanga, Nelisiwe Felicia Maqhosha, Siphokazi Indira Mashiyi, Siphesihle

Masoeu. Reananetse

Mathloko, Lizzy Tsholofelo Mathonsi, Tsundzuka Remember Matshego, Mami Rosinah Mbatha, Nombulelo Thenjiwe

Mbatha, S'fiso Prince Mbokazi, Nontobeko Mcunu, Ntokozo Pearl Mfene, Happy Innocentia Mfundisi, Khanyisa Olivia

Mkana, Nasiphi

Mkhabela, Nomfundo Mkhize, Sindisiwe Sylvia Mkhize, Tholakele Nonkululeko

Mlembelele, zanele Mmeta, Lindiwe

Mmusa, Tshepiso Desmond Mncwabe, Lungile Amanda Mnune, Lingiwe Dorah Mochali, Moeketsi

Modipane, Master Dumisani

Moeketse, Duncan Japhta Khothatso

Mogano, Tebogo Mokgosi, Maria Molefe, Cathrine Nana Moloto, Malebo Winny Mompati, Samuel Monaledi, Nosipho Joy

Mongaula, Nthabeleng (cum laude)

Monnye, Tlou

Mononela, Thiambiwi

Morabe, Itumeleng Thabisile Monica

Moremi, Segobai Josiah Moroasu, Sylvia Mponeng

Morudu, Manoko Thabiso (cum laude)

Motene, Puleng Vanessa Motsaathebe, Neo

Mphosi, Omphemetse Lucretia

Msimang, Nokuphila Mtolo, Nosipho Kholeka Mtshali, Asanda Nokwanda Mtshali, Nothando Faith Mtyingizane, Zodwa

Mudau, Arinao

Mulongeni, Rauna Tuyenikelao Ndiwana

Munyai, Vhudzisani Collet Mwandla, Nokwanda Nomali Mwatile, Laurensia Ndanyengwa Mweli, Siphesihle Nosipho

Myaka, Cyril Mzamo, Anelisa

Ndaba, Bongekile Lettie

Ndaba, Nobomi Ndela, Lunga Ndinise, Zintle

Ndlovu, Vusi Manyaya Nemadandila, Ndumeliso Annikie

Name Maluei

Nene, Malusi

Netswinganani, Aubrey Ngceni, Makaziwe Ngesi, Ande Kimentha Ngubentombi, Busisiwe Ngwenyane, Favourate Celiwe Nkosi, Merilyn Ntomfuthi

Nkosi, Siyabonga Nkosiyane, Mandisa Nkungwini, Mfaniseni Nongci, Phathuxolo Nong, Mamphenyane

Nong, Mamphenyane Ruth Ngeto, Qaqamba Thandokazi

Ngubezelo, Mpho

Ntontela, Asenathi *(cum laude)* Pohamba, Johanna Kafute Pongomile, Okuhle Silizukise

Pretorius, Zelmari Qakamba, Mthobeli Rafana, Xolile

Ramabale, Mosatiwa Cecilia

Ramano, Kitso

Ramatladi, Mmathapelo Sarah Ramohlola, Motjatji Catherine

Ramusi, Dikeledi Ramuthaga, Zanele Rasi, Asemahle Sebasa, Sophie

Seephehlo, Lerato Gloria Seholoba, Nokwanele Sekgala, Tumisang

Sekwati, Koketso Ramogohlo Shabalala, Gugu Precious Shali, Albertina Kuutumbeni Shezi, Lindelwe Ntuthuko Sidzumo, Sibongile Kelebokgile

Sihlobo, Zukiswa

Sikhakhane, Emmanuel Mlungisi

Silamsi, Nwabisa Siluka, Inyambo Haydn Sithole, Thabisile Angel

Smit, Githa Somdaka, Yanga Steven, Ntombizanele

Tabi. Toka

Tapi-Vundla, Vuyokazi

Thabede, Nompumelelo Charlotte

Thejoane, Mpho
Tobigunya, Lindiwe
Tom, Noxolo
Topley, Aydon Colin
Tsolo, Mamatebesi Letta
Van den Hever, Willem Jacobus
Vuma, Sidumiso Sijabuliso
Zondi, Phindile smangele
Zulu, Nqobile Londiwe
Zuma, Thandiswa Bandile

Bachelor of Data Science
Baccalaureus in Datawetenskap

Laubscher, Cara

Bachelor of Commerce

Baccalaureus in die Handelswetenskappe

Aylward, Jack Hylton Bekker, Eduan Bester, Georgina Fay Bester, Nadine Bester, Pieter

Beswick, Tayne Andrew Beukes, Berno Daneel Booysen, Nicholas Martin Boshoff, Christiaan Bowes, Lauren

Bowmaker, Katherine Rebecca Brotherton, Nicholas Eric

Brown, Andrew Burger, Cara

Cannell, Victoria Katherine

Carstens, Kian Neil Charitou, Margarita Chobisa, Shakhane Coetzer, Frans-Pieter Collins, Caitlin Cooper, Marle

Corkill, Rachel Ann

Cowen, Joshua Christopher Crowther, Liam Lourens Da Aparecida, Chloe Edith Day, Abigayle Susan De Beer, Clara Eloise De Klerk, Jacques George De Klerk, Marlie Anel De Villiers, Pieter De Wet, Izelle Dedekind, Daneel Dicey, Benjamin

Dickinson, Cameron Dirwayi, Panashe Stansfield Dlamini, Siphephelo Nselelo

Downing, Erin Clare Du Plessis, Andrea Du Toit, Johan

Du Toit, William Thomas Franklin Dzimbanhete, Perpetua Ruvimbo

Eisenberg, Anneke Farmer, Kieran John Lea

Fourie, Hanell Friedman, Noah Saul

Gabin, Luca Gaylard, Kira Lee Gertze, Jamie Gillham, Jack Godwin, Oliver Goedeke, Kent Egon Golding, Lara

Grobler, Anelma

Gumede, Bulelwa Owami Lwandi

Hamlyn, Jacob joseph Hammond, Thomas Charles Hartley, Oliver James (cum laude)

Harvey, Isabella Hatley, Kristin Haynes, Abby

Heath, Chelsea Tiffany

Holz, Michaela Hooker, Tamsin Kelly

Horn, William Alexander (cum laude)

Hough, Timon

Hugo, Jeanne Elizabeth Human, Hermina Isabella

Ingles, Cade

Janse van Rensburg, Jasper Jansen van Rensburg, Clara Jelley, Nicholas Bernard

Jerling, Jelena Joubert, Tineke Kamaloodien, Naelah Kerby, Matthew Alexander

Kiza, Chumile

Kooy, Jacobus Johannes Kotzé, Christian Llewellyn

Kruger, Cornél

Laker, Carolyn (cum laude)

Lakey, Junaid
Le Roux, Damon
Le Roux, Jamie
Leonard, Jacobus
Levell, Oliver Richard
Lightley, Elizabeth
Lotriet, Dehan
Lotz, Marcus
Louw, Hanru
Louw, Pieter Dawid
Lubbe, Jayson James

Maul, Jana May, Daniel Mbatha, Katlego Mbulwana, Andrew McKeag, Liam Hans McLuckie, Kiara Lily Mentor, Jeneal Meyer, Simone

Milne, Joshua Joseph Samuel King

Mohale, Bonolo Mohaud, Mieka Helen Moyo, Amanda Müller, Rigardt Werner

Naude, Joshua Naudé, Nikolas

Nel. Jacobus Adriaan Louw

Nel, Milla

Nelson, Christopher James Nhlabathi, Sceliwe Nqobile

Nienaber, Carlu Nkhama, Camila Nkolweni, Philisiwe Nortier, Nelicia

Ntlha, Omphitlhetse Letlhogela

Ntshole, Amantle

Odendaal, Emma Elizabeth Olivier, Elizabeth Angelique Pansegrouw, Lize Hanna Parker-Forsyth, Cameron

Parkinson, Ross Pellissier, Jean Pierre Phoku, Reneuwe Bukiwe

Plotz, Aiden Brian Pople, Nicola Potgieter, Ibke Presbury, Genevieve Prince, Kelly Megan Prinsloo, Divan

Proudfoot, Jordan Bradley

Rajcoomar, Aditi Raw, Kei Darron Reddy, Kailin Rey, Max Patrice Rey, Thomas

Robertson, Jonathan William Rushworth, Sarah Sky Schoeman, Estian Schön, Angelica Scully, Joshua Seth Shange, Vuyisile Shaw, Paul James Sievwright, Steven Alan

Simpson, Darien Sissou, Demetri Skerritt, James Peter Smith, John Jeffrey Sonday, Fayaaz Steyn, Joshua David Stevens, Alexandra Sabine Stewart, Chelsea Mia

Taylor, Mark

Theunissen, Michiel Roche

Thodi, Ovahiwa Thomas, Jason Dylan Tomlinson, Simon Francois Trussell, Herschel Damian Tshirangwana, Lufuno

Tun. Aiden

Turro, Isabella Cristina Josephine Van den Berg, Chloe Jade

Van den Berg, Duan

Van der Merwe, Christiaan Alexander Van der Merwe, Reuben Stephan

Van Hulst, Arne Van Straaten, Kristi Van Wyk, Nicolas Van Zyl, Thomas Venter, Maria Catharina

Verson, Alex Vieira, Luka

Walters, Bianca-Leigh Wessels, Sophia Wieland, Ariane

Zietsman, Kayde Matthew Zwaan, Tyla Aimee

Bachelor of Commerce in International Business Baccalaureus in die Handelswetenskappe in Internasionale Besigheid

Bollo, Angelia Maria Wanda (cum laude)

Botha, Morgan

Crafford, Gabi (cum laude)

Dawson, Liam

Du Plessis, Antoinette Du Toit, Mieke *(cum laude)* Edwards, Cayden Gabriel

Elliot, Payton John Drummond (cum laude)

Eloff, Nina Forrest, Ashlea Fourie, Jean-Luc Grindley-Ferris, Luke
Jansen van Rensburg, Liezl (cum laude)
Jordaan, Anja
Joubert, Mignon Elna
Kirsch, Declan John
Loomes, Jessica
Malan, Chané
Morkel, Juliana Lara
Ness, Liam
Pincus, Arin Clare (cum laude)
Sherwood, Ian Simon Mackie
Stead, Max Sebastian John (cum laude)
Twigg, Erin Lesley

forward together sonke siya phambili saam vorentoe



26 March 2025 | 13:00

Fakulteit Ekonomiese en Bestuurswetenskappe (Groep 2)

26 Maart 2025 | 13:00

Programme

Please stand 1. Entrance of academic procession into the hall.

Please stand 2. Playing of the National Anthem.

Please sit 3. Congregation formally constituted by the Chancellor.

4. Welcome by the Chancellor.

5. Presentation of candidates receiving qualifications by the dean of the faculty and conferment of qualifications by the Chancellor.

6. Closing by the Chancellor.

Please stand 7. The academic procession leaves the stage.

Program

Staan asseblief 1. Akademiese prosessie kom die saal binne.

Staan asseblief 2. Speel van die Nasionale Lied.

Sit asseblief 3. Formele konstituering deur die Kanselier.

4. Verwelkoming deur die Kanselier.

5. Voorstelling van kandidate wat kwalifikasies ontvang deur die dekaan van die fakulteit en toekenning van kwalifikasies deur die Kanselier.

6. Sluiting deur die Kanselier.

Staan asseblief 7. Akademiese prosessie verlaat die verhoog.

Faculty of Economic and Management Sciences (Group 2) Fakulteit Ekonomiese en Bestuurswetenskappe (Groep 2)

DOCTORAL QUALIFICATIONS | DOKTORALE KWALIFIKASIES

DOCTOR OF PHILOSOPHY DOKTOR IN DIE WYSBEGEERTE

MARTIN, Lise-Cheree (Economics)

Life After Slavery: Investigations into Self-Selection and Social Mobility

This study explores the lives of formerly enslaved individuals in the Cape Colony after emancipation in 1838. Using newly compiled datasets, it examines their economic, social and educational trajectories. First, it analyses the enslaved population at emancipation, showing how valuations reflected productivity attributes. It then traces post-emancipation movement patterns, revealing settlement choices that signified agency. Labour market outcomes indicate that skilled artisans earned a wage premium, benefiting from integrated workplaces. Finally, an analysis of mission literacy rates finds that former slaves' human capital influenced education levels. The research sheds light on the persistent economic impacts of slavery and emancipation in 19th-century South Africa.

Supervisor: Prof J Fourie

PIEK, Marlies (Economics)

Farm dynamics, sectoral structure and agricultural minimum wages: evidence from South African administrative tax records

Minimum wages aim to improve workers' living standards, but their effects on employment and businesses continue to be debated. This study uses administrative data to examine the impact of a major minimum wage hike in South Africa's agricultural sector. It finds that large farms dominate employment and revenue creation, while small farms face instability and are more vulnerable to policy changes. Higher wages reduce job entry rates, temporarily increasing barriers to employment. Additionally, private international trade standards influence firms' responses to wage laws, leading to temporary changes in trading patterns and improved compliance, but more severe employment adjustment.

Supervisor: Prof D von Fintel Co-supervisor: Prof S van der Berg

SWANEPOEL, Elmarie (Accounting)

An investigation of the effectiveness of a two-stage riskbased ranked-set sampling approach in external audits: a substantive audit approach perspective

Audit regulators have identified the use of sampling in the audit evidence-gathering process as an area of concern regarding audit quality. This study introduces a novel two-stage risk-based ranked-set sampling approach (RSStwo). Unlike traditional audit sampling approaches, RSStwo integrates risk assessment procedures and audit sampling, using data analytics and machine-learning algorithms. Simulation studies comparing RSStwo to existing audit sampling approaches offer valuable insights for auditors, regulators and standard setters. The findings highlight the potential of integrated risk-based sampling approaches to improve audit quality and reliability.

Supervisor: Prof SPJ von Wielligh Co-supervisor: Prof SJ Steel

VAN SCHOOR, Melt Philip (Economics)

Evolutionary models of the ultimatum game

This study advances evolutionary explanations for fairness norms in ultimatum bargaining by addressing key gaps in understanding the game's dynamics. Simplified "minigame" models, which show that fairness norms can resist evolutionary pressure, are formally linked to the full ultimatum game, using conditional frequency dynamics. A novel endogenous information framework explores the dynamics of reputation mechanisms, demonstrating how both positive and negative reputations shape bargaining behaviour. This provides a stronger explanation for the evolutionary origins of fairness norms. The findings have broad implications for economics, business negotiations and policy design, shedding new light on how social norms and strategic decision-making evolve.

Supervisor: Prof R Burger

Faculty of Economic and Management Sciences (Group 2) Fakulteit Ekonomiese en Bestuurswetenskappe (Groep 2)

OTHER QUALIFICATIONS | ANDER KWALIFIKASIES

Master of Commerce Magister in die Handelswetenskappe

Cassiem, Abdul Qaadir (Economics) *(cum laude)*Claassen, Janke Georgina (Economics) *(cum laude)*

Euston-Brown, Angela Frances (Economics) (cum laude)

Henney, Lyndon (Computer Auditing) Hubble, Tessa (Economics) *(cum laude)* Knapp, Joshua-Connor (Economics)

Le Roux, Andre Louis (Economics) *(cum laude)* Maletzky, Samantha Julieth (Computer Auditing)

Mota, Nthatisi (Economics) (cum laude) Msiska, Wongani Mngondi (Economics)

Ngwenya, Siyabonga Derrick (Computer Auditing)

Pretorius, Jan-Hendrik (Economics)
Rambanapasi, Gabriel (Economics)
Samuels, Adrian (Computer Auditing)
Van Zyl, Hendrik Loubser (Economics)

Williams, Wesley James (Economics) (cum laude)

Bachelor of Commerce Honours Honneurs-Baccalaureus in die Handelswetenskappe

Bobe, Mbali (Management Accounting) Cleaver, Cynan (Economics) (cum laude) De Jager, Joshua (Economics) (cum laude) De Waal, Jean-Luc Paul (Economics)

Dennison, Annabel Grace Wallace (Economics) Djuma, Rahma (Management Accounting)

Du Toit, Etienne Daniël (Management Accounting)

Du Toit, Nicola (Economics)

Erasmus, Petrus Jacobus (Economics)

Geyer, Charisa Amorie (Economics) (cum laude) Gray, Joseph Andrew (Economics) (cum laude) Greyling, Talyah (Economics) (cum laude) Guest, Oliver (Economics) (cum laude) Kruger, Matt (Economics) (cum laude)

Made, Asanda Akhona (Management Accounting) Makubalo, Yondela (Management Accounting)

Mashego, Tagishi (Economics) Massyn, Pieter Hendrik (Economics)

Mavovana, Zethu (Management Accounting)

Mizrahi, Adam Jacob (Economics)

Mlumbe, Gracia Rethabile (Management Accounting) Moore, Jaime Taylor (Management Accounting)

Motsilili, Rebaballe (Economics) Ngcobo, Zakhele Musa (Economics)

Nyamupachitu, Tapiwa Kennedy (Economics) Oppermann, Lauren Kate (Economics) *(cum laude)*

Prinsloo, Markus (Management Accounting) Radebe, Nomonde Queen (Economics)

Seffier, Renaldo William Peter (Management Accounting)

Shongwe, Vusumuzi Charles (Economics) Stainton, Katherine Jane (Economics) Thompson, Matthew Jon (Economics) (cum laude)

Timmerman, Christian (Economics)

Twala, Mila Zama (Management Accounting) Van Jaarsveld, Adriaan (Actuarial Science)

Van Tonder, Anneme' Irmhilde (Economics) (cum laude)

Van Wyk, Ané (Management Accounting) Viljoen, Aaron Robson (Actuarial Science) Wensley, Georgia Zoë (Actuarial Science) Williams, Marc André (Management Accounting)

Bachelor of Accounting Honours Honneurs-Baccalaureus in die Rekeningkunde

Gatonby, Ryan Peter (cum laude) Roode, Johannes Bernardus

Postgraduate Diploma in Accounting Nagraadse Diploma in Rekeningkunde

Arendse, Jesse Louise Badenhorst, Deresha

Barnes-Webb, Victoria Elizabeth

Basson, Joyce Edith Berman, Timothy Bierman, Barend Daniel Bosman, Nicole Taryn Bowman, Matthew Robert

Briel, Christiaan Gerhardus Johannes

Coetzee, Jana Paula Conradie, Tristan Paul Diedericks, Wicus Du Toit, Francois Frasmus, Pieter Franco

Erasmus, Pieter Francois Gace, Nicola Claire

Gerryts, Inge

Groenewald, Cora Lorraine Hablutzel, Natasha Hannah

Hobbs, Anne Hougaard, Anja

Husselmann, Willem Heinrich

Jordaan, Cara

Jordaan, Nicola Nanette Khosa, Rose Sarah Kleyn, Herman Johan Kloppers, Amé

Knoetze, Armand Le Roux, Alex Le Roux, Alex Peter Luwes, Tiaan André

Mamvura, Rutendo Brenda Mashaba, Ruthy Ntlakuso

Masters, Nicole Meaker, Ryan Paul Meyer, Jan-Hendrik

Molapo, Raesetja Saralee Mongale, Gofaone Vincent Motau, Jessica Mahlatse

Mouton, Chantal Naudé, Carla Nel, Jean Jacques Ngcobo, Amahle Nosipho Olles, Mark Wolfgang Percival, Brigitte

Phalafala, Nakedi Pearl Rajbally, Kashmiri Retief, Hofmeyr Gideon

Salie, Aashiqah

Selepe, Kgotlelelo Mokubedi Perseverance

Siddle, Ellen June Sprout, Mikayla Lorren Stubbe, Mieke

Swart. Samuel

Thamana. Basetsana Alicia Van der Merwe. Zander Van Jaarsveld, Andries Bernard

Van Kerwel, Shaquil Van Niekerk, Githa

Van Niekerk, Johannes Cornelis Varrie. Thomas Alexander

Vermeulen, Diaan Victor, Cayla

Wilson, Erin Margaret Zietsman, Paul Hendrik Zitha. Nolisina Jeanete

Bachelor of Commerce

Baccalaureus in die Handelswetenskappe

Albertyn, Sian Allie, Moegayudeen Anderson, Robyn Rose Arthurs, Paris Zara Askew. Thomas James Atkinson, Michael Frank Baines, Matthew Gareth Noel

Barrett, Ethan Graham Bester, Eduard Beukes, Janke Botes, Cayla Briel, Jana

Brooks, Jemaine Maryke

Buscop, René

Campbell, Nicholas Lamont

Carreira, Kellv Cilliers, Eduan Louis Cloete, Eugene Gert

Coe, Lauren Ashleigh (cum laude)

Cozzi, Matteo

Du Randt, Rhys Benjamin Du Toit, Marnus Willem

Elbrecht, Chad Erasmus, Emily Jane Evatt, Caitlyn Faarah. Fatima

Fadane. Bulali Zamaiola Farara, Augustin (cum laude) Ferreira, Marizelle Fletcher, Liam Michael Frank, Zoe Kaitlin Gibson, William Francis Gordon, Gabriela Monica

Gray, Emma Green, Keziah

Gumbi, Sinazo Sakhile

Hangula, Ndapandula Laudika Ndeshipanda

Hawker, Jessica Brodie Hayward, Travis Ryan Heinecken, Abigail

Hlabangani, Martinique Nhlanhla Fikile

Isaacks, Ernestine Ivanova, Gabriela Jabe, Someleze Joubert, Niel Masson Kendall. Bruce Peter Khosa, Tshulani Hopewell

Koetle, Tshepiso Boitumelo Nthabeleng

Kotze. Celeste Charlotte Kritzinger, Jacobus Nicolaas

Kruger, Alexander

Lambert, Fernando Donovan

Lategan, Tayla Le Roux, Beanca Le Roux, Luka Lebotschv. Keelan Legodi, Taelo Brian Lemmer. Natasha Lewin, Rishka Lourens, Liné Louw, Carel Aron

Maartens, Christopher Jack

Maharaj, Ishalin Mandona, Keotshepile Manjra, Muhammad Manning, Benjamin Maseko, Kieron Mashiya, Uviwe

Matanda, Chris Mulangu

Mathabatha, Lehlogonolo Carol Lebese Mbe, Nomthandazo Grace Achen

M'hango, Taonga

Mocke, Cornelius Theunis

Momsen, Kaitlin Munro, Ian Mackenzie

Naicker, Priya Nash, Anya Nelana, Afikile Nel. Zoe Nell, Zack Ray

Njukuya, Panashe Shannissea Nyachiya, Anesu Shaniece Odendaal, Ashlea Maxine Oellermann, Benjamin Lawrence Olivier, Gerhardus Cornelis

Parker, Farheen Pretorius, Luca Quantoi, Tyrique Reddy, Kuvasha

Schreuder, Berndt Jacques

Schreuder, Tiaan Sherriffs, Melanie

Snedden, Robert Campbell Starke, Emma Mary

Steyl, Marian Alicia Steyn, Eben Suliman, Yusuf Theron, Jacques

Toerien, Cornelius Coenradus

Van den Berg, Karli Van der Merwe, Martin Van der Vyver, Cael

Van der Waag, Michaela (cum laude)

Van Driel, Inge Van Jaarsveld, Anke Van Os, Tallulah

Van Rooyen, Tuwan Sanzio Ryan

Van Tonder, Jade Van Wyk, Alexander Van Wyk, Deidre Vuma, Wonder Phillip Watson, Cornel Johannes Wen, Carina Chung-Yu Wrigley, Alexandra Claire Xhalisa, Ukho-Mhlantla

Yammin, Craig Zunckel, Matt Haydn Zwane, Zamani

Bachelor of Accounting

Baccalaureus in die Rekeningkunde

Abrahams, Michelle

Adlam, Zoey

Amunkete, Ando Frieda Pandekeni

Andrag, Bernhard Paul Barrett, Mitchell Barrett, Ross Barroso, Angelique Basardien, Kauthar Bauser, Vaughn Ryan Bezuidenhout, Lane Boonzaaier, Frans Jacobus

Burnett, Julia Carstens, Megan Charles, Sarah Jillian Chase, Claire Catharine

Christodoulou, Michael Tooulou

Cimma, Igea Maria Claassen, Henko Combrinck, Herman De Kock, Karla

De Villiers, Louise Kathleen

De Villiers, Marc De Wet, Nicolette Diedericks, Rainier Dirks, Tristan Donough, Kieran Douglas, Erin Bronwyn Du Toit, Andre Francois

Dunsdon, Kyle Eckley, Stefan Engelbrecht, Thyla Theraan

Erasmus, Imke Farao, Chloe Fly, Oliver Fortuin, Zayd

Fourie, Philip Willem Dupreez

Francis, Ubaid

Funk, Ulrich Christiaan Gammie, Luke Delroy Geyser, Gabriella Gildenhuys, Ruan Gonsalves, Christan Gould, Tegan Grunewald, Enya

Hamman, Stefan Nicolaas Helberg, Bernard Louis Heuvel, Chadley Emile Higgs, Rian Tertius Hind, Matthew Holcroft, Thomas Hudson, Brian Hougham Immelman, Lean

Janoodien, Shaik-Ahmed

Jansen van Rensburg, Zander (cum laude)

Jantjies, Ncumisa Tshepang Jasson, Damian Luke Jelf, Weston Shaun Jones, Eryn Towella Keevy, Nicholas

Keuzenkamp, Teuns De Wet

Knight, Campbell

Knoesen, Willem Adriaan

Konkwane, Afika Kotzé, Magdel Kuhn, Naomi La Cock, Julien Lance-Postma, Kyla Laskey, Thomas De Villiers Le Roux, Cecil Cronje Ledwaba, Tiiso Legae, Lebogang

Liebenberg, Lené Magerman, Sitaarah Marivate, Linah Nsovo Martin, Jeandre Mayekiso, Sihle Mazor, Tomer

Mendes De Oliveira, Daniella (cum laude)

Millar, Megan

Moholo, Malepile Keabetswe Mokone, Phenyo Thanksgiving

Moonee, Neveshan Moyle, Jade Hayley

Msibi, Siyamthanda Andiswa Nolwazi

Ndahalele, Alexia Iyaloo Ngoepe, Phuti Mashadi Pearl Ntshinga, Aluta Continua Pashita, Urisper Tuyakula

Pavier, Chicain Pavlou, Zack Perkins, Stephen

Philander, Joshua-Arthur

Pienaar, Andre Juan

Pienaar, Jaco

Pienaar, Waldo (cum laude)

Pope, Philip

Pretorius, Benjamin Petrus

Radebe, Siphiwe Innocent

Rajh, Jordan Luke

Riley, Aidan Matthew

Rivida, Aleighne

Sandham, Damien Lloyd

Sanqela, Basiso Anita Sibonelelwe Siyema

Schirnig, Ben Christopher

Schoeman, Stefanus Jan

Scholtz, Hannes

Schooling, Zandri

Sedick, Aakifah

Simpkins, Oliver

Smillie, Paige

Smit, Zane

Steyn, Connor Paul

Stewart, William

Stuart, Samuel Robert

Truter, Neil

Tshabalala, Namakazi Thandobuhle

Van Breda, Matthew Alex

Van der Linde, Brent

Van der Merwe, Kinah

Van der Merwe. Rachael Louise

Van der Walt, Johannes Jakobus

Van Eck, Megan Mari

Van Niekerk, Shaun

Van Niekerk, William Storm

Van Schoor, Kyle

Van Veen, Renier Johannes Jacobus

Van Wyk, Arno

Wait, Ulrich

Westerdyk, Kayla

White, Joshua Tane

Wilson, Jonathan

Wood, Emmi Anne

Zimanyiwa, Nigel

Zoghby, Juandee Daniel

forward together sonke siya phambili saam vorentoe



26 March 2025 | 17:00

Fakulteit Ekonomiese en Bestuurswetenskappe (Groep 3)

26 Maart 2025 | 17:00

Programme

Please stand 1. Entrance of academic procession into the hall.

Please stand 2. Playing of the National Anthem.

Please sit 3. Congregation formally constituted by the Chancellor.

4. Welcome by the Chancellor.

5. Presentation of candidates receiving qualifications by the dean of the faculty and conferment of qualifications by the Chancellor.

6. Closing by the Chancellor.

Please stand 7. The academic procession leaves the stage.

Program

Staan asseblief 1. Akademiese prosessie kom die saal binne.

Staan asseblief 2. Speel van die Nasionale Lied.

Sit asseblief 3. Formele konstituering deur die Kanselier.

4. Verwelkoming deur die Kanselier.

5. Voorstelling van kandidate wat kwalifikasies ontvang deur die dekaan van die fakulteit en toekenning van kwalifikasies deur die Kanselier.

6. Sluiting deur die Kanselier.

Staan asseblief 7. Akademiese prosessie verlaat die verhoog.

Faculty of Economic and Management Sciences (Group 3) Fakulteit Ekonomiese en Bestuurswetenskappe (Groep 3)

DOCTORAL QUALIFICATIONS | DOKTORALE KWALIFIKASIES

DOCTOR OF PHILOSOPHY DOKTOR IN DIE WYSBEGEERTE

ADONGO, Patricia Ojangole (Development Finance)

Structural Transformation, Private Sector Credit, and Growth: Implications

This study examines the sources of growth, the employment effect of growth, and the role of private-sector credit on Uganda's economic performance. The findings show limited structural transformation and overall jobless growth in Uganda. However, the disaggregated analysis reveals that manufacturing, mining and trade sectors have a positive and significant employment effect. Also, private-sector credit has a positive impact on growth, but with variations across sectors. The findings suggest that investment interventions such as credit should target sectors that have a high employment effect and more growth potential, such as manufacturing and trade.

Supervisor: Prof JM Aziakpono Co-supervisor: Dr N Moleko

ALHASSAN, Muftawu Dzang (Business Management and Administration)

Digital resilience and continued use of mobile payment services in a developing economy

This study explores why consumers in developing economies continue to use mobile payment services even after experiencing fraud. This is a critical issue in developing economies' digital finance landscape, where millions depend on these mobile services. The research identifies key factors that promote psychological resilience in the face of financial fraud, such as personal competence, social support, and trust in policies, enabling consumers to continue engaging with mobile payment platforms. From these findings, a new measurement scale for digital resilience against mobile money fraud is developed. The research advances our understanding of digital resilience and provides a validated framework for future research.

Supervisor: Prof M de Klerk

BATALA, Lusanda (Development Finance)

Access to financial services and implications of poverty in South Africa

This study examines the factors influencing access to financial services in South Africa, focusing on formal, semi-formal and informal services, and how access links to poverty. It highlights that poverty is a key determinant of access, with race, gender and banking concentration also playing significant roles. Despite various initiatives, financial inclusion remains uneven. The research uses data from the National Income Dynamics Study to identify key factors such as income, employment, education and macroeconomic conditions. The study shows that subjective poverty limits access and recommends that policymakers balance formal and informal service access, targeting the poor.

Supervisor: Prof S Kleimeier Co-supervisors: Profs C Adjasi, H Stander (external)

BOBES HERNANDEZ, José Luis (Development Finance)

Development Impact of attracting African capital for investment in African Sustainable Energy Infrastructure Assets (SEIA)

SEIAs are crucial for economic growth, and attractive to institutional investors. Yet barriers to SEIA investment in Africa include misperceptions of risk, regulatory restrictions, and a lack of investment instruments. Modelling the development impact of SEIAs, this study indicates that an increase of only 1% of African institutional investors' assets under management would increase GDP by 0,2%, the human development index by 0,547%, produce 108 076 new jobs, and significantly reduce the SEIA investment gap. African policymakers should encourage investors to increase their SEIA allocation by improving their understanding of SEIA investment characteristics, addressing regulatory barriers to investment in unlisted assets, and developing investment instruments such as listed SEIA funds.

Supervisor: Prof P Kibuuka Co-supervisor: Dr E Nanziri CHITUNHU, Kudzai (Public and Development Management)

An exploration of the factors affecting the effectiveness of press media in the fight against corruption: A case study of Zimbabwe

A free and independent media is necessary for good governance. This study examines Zimbabwean press coverage of corruption, exploring the factors influencing its effectiveness. Through thematic and quantitative content analysis, it reveals media corruption, reactive and moderate reporting, constraints imposed by restrictive laws, political interference, economic pressures and ownership biases. The study recommends safeguarding journalistic independence, repealing restrictive laws, and investing in data-driven reporting. It also calls for ethical reforms, a co-regulatory framework, and enhanced media collaboration with civil society and anti-corruption agencies. The research provides context-specific insights into ethical dilemmas, systemic challenges and media policy development in Zimbabwe.

Supervisor: Prof PS Pillay Co-supervisor: Dr M Saruchera

ENGEL, Wendy Elaine (Business Management and Administration)

Determinants of online food purchase for South African consumers

A limited body of knowledge exists on transaction cost theory applied to food e-commerce in South Africa. This study presents an integrated and expanded transaction cost model with additional constructs. Quantitative data collection and structural equation modelling analysis are utilised. The findings indicate that frequency as well as environmental and behavioural uncertainty significantly influence transaction costs. Transaction costs negatively influence consumer satisfaction, and consumer satisfaction positively influences consumer loyalty. The research contributes to the understanding of cost challenges in online food retail, and suggests online food retail marketing strategies that minimise cost and time and increase consumer satisfaction.

Supervisor: Prof M Terblanche-Smit

GUTAS, Thembani (Public and Development Management)

The impact of intergovernmental fiscal allocations on South African water board performance: a case study of Amatola Water Board

This study assesses the expenditure and delivery performance of Amatola Water Board (AWB) from 2013 to 2021 in the context of multi-level fiscal governance. The assessment critiques the effectiveness of intergovernmental institutional arrangements for monitoring and evaluating AWB's water infrastructure grant implementation performance. It finds that maladministration and weak oversight arrangements have contributed significantly to AWB's poor delivery performance. A theory of change is proposed as a monitoring and evaluating instrument for improving the board's infrastructure grant spending and delivery performance. The research contributes significantly to current debates on enhancing water service delivery and financing within a complex intergovernmental fiscal system.

Supervisor: Prof T Ajam

HAMUNYELA, Saara (Development Finance)

Essays on New Business Creation and Economic Growth in Sub-Saharan Africa

This study examines the relationship between new business creation and economic growth in sub-Saharan Africa, emphasising the roles of natural resource abundance, sectoral linkages and human capital investment. It reveals that while resource abundance stimulates growth, it constrains entrepreneurship – a challenge exacerbated by weak institutional quality. The analysis identifies sectors with strong linkages, notably agriculture and petroleum, which drive growth, while financial intermediation facilitates entrepreneurship. Additionally, low human capital intensifies the negative growth impact of business creation, though surpassing a critical investment threshold reverses this effect. The research underscores the need for institutional reforms, sector-specific policies and sustained investment in skills development to foster sustainable regional growth.

Supervisor: Prof M Graham

KYEI, Emmanuel (Development Finance)

Effect of anti-money laundering regulations and banking sector liquidity on stability of banks and financial inclusion in Ghana: A panel threshold analysis

This study examines the impact of anti-money laundering (AML) regulations and liquidity on the stability of banks and financial inclusion in Ghana. The results show a positive and significant influence of AML regulations on bank stability and financial inclusion below a specific threshold value, while exhibiting a negative effect above this threshold. Therefore, policymakers should ensure that AML regulatory intensity remains below the threshold value to enhance financial stability and inclusion, while minimising adverse effects.

Supervisor: Prof I Otchere (external) Co-supervisor: Prof M Graham

SANGA, Bahati (Development Finance)

Unlocking Financing for Small and Medium-Sized Enterprises and Entrepreneurship in Africa: Empirical Insights on the Role of Financial Technology and Financial Deepening

Lack of access to finance is a major constraint to the growth of SMEs and entrepreneurship in Africa. This study addresses this crucial issue by empirically examining the role of fintech and financial deepening in unlocking financing for SMEs and entrepreneurship in Africa. It uses a novel method of moments quantile regression, accounting for the often-overlooked heterogeneity effects. The findings, organised into eight chapters of original publishable articles, reveal that fintech developments and financial deepening heterogeneously increase financing for SMEs and entrepreneurs in their different stages of growth, thereby highlighting potential policy implications.

Supervisor: Prof JM Aziakpono Co-supervisor: Dr V Matsebula

THEBUHO, Winifred Nsozi (Development Finance)

The effect of financial globalisation and energy consumption on environmental sustainability in sub-Saharan Africa

Despite being a low contributor to global greenhouse gas emissions, Africa is highly vulnerable to the effects of climate change. A just energy transition, focusing on accessible and affordable clean energy, is critical. This study explores the impact of financial globalisation and energy consumption on environmental sustainability in sub-Saharan Africa. While foreign capital can boost development and reduce energy poverty, it may lead to environmental degradation in the absence of alternative energy solutions. Africa could benefit from the implementation and enforcement of strict environmental protection and energy consumption rules, which could turn pollution havens into pollution halos.

Supervisor: Prof L Steenkamp Co-supervisor: Dr P Opperman

WOLFSWINKEL, Michelle Beatrice (Business Management and Administration)

Employer brand positioning to attract and retain talent and build brand coherence: an exploratory study in top global employer brands

A critical review of the employer brand as construct highlights the dual function and importance of strategic alignment with the corporate brand. A further integrative literature review synthesises brand positioning theory, proposing an employer brand positioning conceptual framework. Findings from content and thematic analysis of 30 top global employer brand websites deliver four themes and ten sub-themes, emphasising strategic employer brand positioning context and customisation to augment the conceptual framework. This qualitative exploratory study contributes to employer brand positioning theory and practice, drawing together employee value proposition, differentiation, brand alignment and targeting into a comprehensive conceptual framework with guidelines for organisational success.

Supervisor: Prof M Terblanche-Smit Co-supervisor: Dr C Enslin (external)

ZIMUTO, Wisdom (Development Finance)

Stock Markets Integration, Intra-African Trade and Welfare in Selected African Countries

This study revisits an old debate on the role of financial markets development in the real economy and in enhancing welfare outcomes, the focus being Africa's stock markets. Using non-parametric wavelet coherence analysis on high frequency time series data for 11 major stock exchanges, the research constructs All Share price indices for these markets to explore the integration patterns, the relationship between this integration and trade, and the effect on welfare outcomes. The results show long-run integration, but with pockets of anti-phase coherence in crisis periods, which presents sporadic arbitrage opportunities. Stock markets integration facilitates trade and better welfare outcomes.

Supervisor: Dr LE Nanziri

Faculty of Economic and Management Sciences (Group 3) Fakulteit Ekonomiese en Bestuurswetenskappe (Groep 3)

OTHER QUALIFICATIONS | ANDER KWALIFIKASIES

Master of Commerce Magister in die Handelswetenskappe

Adams, Kay-Dee (Public and Development Management) Gcabashe, Majorie Lorraine Amanda (Public and

Development Management)

Mokae, Kagisho Mokae (Public and Development

Management)

September, Steve Colin (Public and Development

Management)

Master of Philosophy Magister in die Wysbegeerte

Assam, Ian Christopher (Futures Studies) (cum laude) Chimphonda, Jerome (Sustainable Development

Planning and Management)

Daoussis, Alexia (Sustainable Development Planning and

Management) (cum laude)

Fick, Wilhelm Liebrecht (Sustainable Development Planning and Management) (cum laude)

Hlongwa, Nongcebo Priscilla (Sustainable Development Planning and Management)

Howarth, Neale (Sustainable Development Planning and Management)

Jacob, Merin Raju (Sustainable Development Planning and Management) (cum laude)

Leatherby, Caitlin (Sustainable Development Planning and Management)

Mambadzo, Shirley Esmeralda (Sustainable Development

Planning and Management) (cum laude)
Mhango, Chawanangwa Jacqueline (Sustainable

Development Planning and Management)

Nkwentsha, Sisanda (Environmental Management)

Walls, Christopher David (Futures Studies)

Master of Philosophy in Leadership Coaching Magister in die Wysbegeerte in Leierskapafrigting

August, Charlton

Ayah, Tshepo Perpetua

Bierbaum, Neil Bryan (cum laude)

Cooke, Sandra (cum laude)

Drummond, Lee-Ann (cum laude)

Isaacs, Marlon Ryan

Kapiye, Sara Laudika Tuwilika Khumalo, Sibongile Sarah

Lees, Daisy

Mbatha, Diana Nonkululeko Cheryl

Mbhenyani, Tiva-Xinwe Given

Mlahleki, Nono Naidoo, Manovriti Nodada, Vuyelwa Persad. Preesha

Phiri, Lillian Muchaneta

Pini, Phiwe

Radebe, Lerato Faith

Shipandeni, Ndapewoshali

Simons, Deborah (cum laude)

Squair, Cindy (cum laude)

Steenkamp, Bonus Francois (cum laude)

Subramani, Derisha

Venter, Johanna Adriana

Master of Philosophy in Development Finance Magister in die Wysbegeerte in Ontwikkelingsfinansies

Haufiku, Eriuda

Mulenga, Mushuma (cum laude)

Selatole, Pelwane Tshephisho (cum laude)

Seshibe, Mosima Harriet

Vilakazi, Thamsanga Heavenson

Master of Business Management and Administration Magister in Besigheidsbestuur en -administrasie

Adjei, Ophesmur Naa Adjeley

Adriaanse, Nathanael Marco

Ávila Martini, Carolina

Bain, Jason

Bekker, Marco

Bergenthuin, Johannes Gysbertus (cum laude)

Bock, Bianca Benita Braaf, Denzil Eduard

Charles, Wendy

Chimuti, Shingirai (cum laude)

Chipamaunga, Taurayi Mufaro

Coolen, Harry Krishnen

Courtaud, Jean Emmanuel

Crouse, Jean-Dré JB

David, Ernestina Loide Ndahambelela

Davis, Penelope Catherine

De Freitas, Kyle Warren

De Wet, David Jacobus

Dengeinge, Jordaan Hendrik

Ditlhong, Obitseng Justice

Dittilong, Obliseng Justice

Ditsebe, Dimpho (cum laude)

Dlamini, Sixolile Sithandiwe (cum laude) Du Plessis, Pieter Jacobus (cum laude)

Du Plessis, Sven Ryno (cum laude)

Duvenage, Casper Jan Hendrik (cum laude)

Erasmus, Daniël Jacobus

Fanta, Sonwabiso

Fourie, Matthew Keith (cum laude)

Frey, Alovise Caroldine

Fumba, Ricardo Xolisa (cum laude)

Gardiner, Derek Jonathan

Gibson, Amelia

Gordon, Marian Chantelle (cum laude)

Grootboom, Mark

Grütter, Tonette (cum laude) Hamman, Jochemus Johannes Handura, Vetjevera Mercy (cum laude)

Hansmeyer, Guy Bonnar

Haynes, Jenna Lara (cum laude)

Hoabeb, Buruxa Hopley, John Charles

Immelman, Gysbertus Christiaan (cum laude)

Jonas, Josua (cum laude)

Julius, Vernon Jacques (cum laude) Kagogo, Theophelus Kagogo Kahimise, Felicia Melissa Kandjiriomuini, Bryan Katjimune, Charles Tezee Keevy, Marelize (cum laude)

Khan, Saood Kitching, Luan

Kitshoff, Ruaan (cum laude) Koekemoer, Frederik Antonie Kotze, Dirk Jacobus (cum laude)

Kriel, Pieter Eduard Kustaa, Josephat Gerson

Lerata, Thato Liu, Hongwu Lock, Linelle

Lulema, Joyce Persis

Lunga, Meekness (cum laude) Lungameni, Jacobina Patemoshela Macharika, Cephas Rangarirai Maimela, Moeketsi Patrick Makae, Shereen Zainab

Makaula, Nontsikelelo Nompumelelo

Mandidi, Sydney Manhovo, Yvonne Marais, Carina Elizabeth Mashazhu, Nigel

Maxebengula, Nompumelelo (cum laude)

Mentoor, Davina Louishan Minnaar, Francois Daniel

Mokoena, Lehlohonolo Lucas Haig

Molefe, Melusi Modise Montsho, Obakeng Johannes

Mosotho, Tumisang

Motloung, Judith Mamelang Matshaneng

Motse, Itumeleng Matthews

Musenwa, Lufuno

Mutanda-Musoke, Richard Nicholas Tendo

Mutete, Kevin Simbarashe Mvubu, Mthokozisi Cyprian Ngombabu, Shadrac Mbenga

Nkuna, Tiaan

Notshe-Pityana, Nomtha Mihlali Ntlhane, Maishibe Kano *(cum laude)* Ntuli, Nomfundo Lungile Evelyn Nxumalo, Ayanda Simphiwe

Nxumalo, Nothando

Olivier, Hermanus Johannes Jacobus Orsmond, Jacobus Coenraad *(cum laude)*

Parker, Luke Holden

Pieterse, Etienne Pillay, Ezra

Rajgopaul, Cliffton Ramhari, Ashveer *(cum laude)*

Rampedi-Mantashe, Reshoketsoe Christinah Ramohloa, Rethabile Adelaide (cum laude)

Raphiri, Nathalia Boitumelo Raphoolo, Makatleho Lucia

Rigoli, Claudio Ezio Roux, Jean-Pierre

Schalkwyk, Megan Sharntel Denise

Schmidt, Mia

Schmidt, Rupert Walter (cum laude)

Sebulele, Tshepiso Karin

Seme, Geofrey Setai, Makutloano

Shifotoka, Aletta Kandali *(cum laude)* Sibiya, Nathaniel Nsizwazikhona

Singh, Varnika Sinvula, Judith

Smit, Armand Hendrik (cum laude) Stander, Christiaan Johannes (cum laude)

Taljaard, Esmarie (cum laude) Timothy, Conan Lemuel Titus, Viva Anja (cum laude)

Ungerer, Anine

Van der Merwe, Ella (cum laude)

Van der Merwe, Hermanus Steyn (cum laude) Van der Walt, Lourens Stephanus (cum laude)

Van Heerden, Andries Johannes Van Heerden, Katuska Kovacs Van Rooy, Antonie Charles Vey, Steven Richard (cum laude)

Visagie, Celeste Vlok, Pieter

Vorster, Pierre Vorster

Whelpton, Jannieke (cum laude)

Wiese, Lize-Marie Zizhou, Ranganai

Master of Public Administration Magister in Publieke Administrasie

Matsi, Demetria Muller, Catherine Ngxamngxa, Thulisa Robyn, Johan Godfrey

Bachelor of Commerce Honours Honneurs-Baccalaureus in die Handelswetenskappe

......

Adams, Elisheva Heather (Public and Development Management)

Hanzen, Morne (Public and Development Management) Jooste, Andrea (Public and Development Management)

Ngqayiyana, Sibulele Asiphenathi (Public and

Development Management)

Sampson, Niall (Public and Development Management)

Samuels, Brenvan (Public and Development

Management)

Simons, Jade Joy (Public and Development Management)

Thomas, Monique (Public and Development

Management)

Van der Merwe, Betina Willmary (Public and

Development Management)

Bachelor of Public Administration Honours Honneurs-Baccalaureus in Publieke Administrasie

Bambo, Thatohatsi

Bapela, Motlelepule Nomsa

Benenengu, Tina Boois, John Andrew Dayimani, Busiswa Anita De Waal, Isak Gerald Andreas Dolopi, Lusanda Odette

Dyantyi, Ntomboxolo Prudence

Faasen, Cornelia

Guqa, Sandisiwe Phelokazi Gwangwangwa, Mulalo

James, Bulelani

Lukhele, Precious Temlandvo

Mafuya, Lukho

Mantanga, Ophelia Thabani Maseko, Ntshadi Rachel Matolengwe, Nokuzuka

Mei, Nomama Mgweba, Zetu

Mkhatshwa, Nozipho Adelaide

Moloto, Sithembiso Mooi, Sisanda

Morara, Boiketlo Cameron Mpfariseni, Mulalo Peace Mtumtum, Zwelethu Ndima, Nopinki Ndungane, Songezi

Ndwandwa, Yanga Khanya Ngubane, Daniel Andile Ntikinca, Nomakulu

Oliphant, Theolonuis Nat Nathan

Otto, Magdelene Phelane, Libuso

Pitso, Kgomotso Patience

Plaatjies, Bulelwa Prakash, Diyajal Stali, Ayanda

Swarts, Chriszelda Carlisha

Thomas, Jesse Tontsi, Ntombizanele Tshayi, Kholiwe Faith Warner, Kurt Afflick Xaba, Hlumelo

Zikalala, Vusi Praisegod

Postgraduate Diploma in Leadership Development Nagraadse Diploma in Leierskapontwikkeling

Balkisson, Kamaria

Gaingob, Michael (cum laude) Ganie, Nabila (cum laude) Gumbi, Nokuthaba Primrose Hauwanga, Penelao Tuyakula Kannemeyer, Lizelle Desiree

Kaziyake, Wanyana Joan

Kleinsmidt, Estelle

Kuyk, Wendy Lyn

Masitha, Itumeleng Mathews, Kate (cum laude)

Mbutho, Lindiwe Nolisa

Mosomothane, Tledima Desmond Moeketsi

Mudarikiri, Tayson (cum laude)

Ndlazi, Mirriam Monica

Nena, Sammy

Nkosana, Sonwabo Mphakamisi

Obaking, Reginald

Odendaal, Willem Adriaan

Sait, Adiel (cum laude)

Shaambeni, Markus Loon Nghixungunyeme

Spies, Ruan

Strydom, Judith Susanna (cum laude)

Ulyate, Mandy

Van Biljon, Tracy-Ann (cum laude)

Van Bosch, Kim

Van den Heever, lucinda (cum laude) Van Rooyen, Dayyaan (cum laude) Van Vuuren, Carla (cum laude) Van Wyk, Hendrik Stephanus

Vutha, Tando

Wells, Karen Valeire (cum laude)

Postgraduate Diploma in Sustainable Development Nagraadse Diploma in Volhoubare Ontwikkeling

Banda, Sheron Senkepeng

Blou, Hombakazi

Cooper, Casey (cum laude)

Daiber, Toma

Daruty de Grandpre, Daniel (cum laude)

Dladla, Sisekelo

Fabian, Sasha (cum laude) Harris, Angelique Bianca Hills Williams, Milo (cum laude)

Holm, Fabian Dieter Jaca, Kgomotso Martha Louw, Gizelle Alexia Makatsela, Julius

Makeke, Mojathoto Hazel Marsh, Crystal (cum laude)

Mcetywa, Sinazo Morudi, Khotso

Mputle, Didintle Diphetogo

Msomi. Londiwe

Nakazwe, Kaleo (*cum laude*) Nashapi, Maria Nelago Ngxikwe, Thandile Nzimande, Masentle

Perrot-Baar, Manon (cum laude)

Roux, Etienne Alfred George (cum laude)

Scholtz, Annegrethe (cum laude) Taggart, Samantha (cum laude)

Tawana, Siyanda

Tjikune, Leonore Wetupa (cum laude)

Tredoux, Liebe (cum laude)

Tsiane, Kegomoditswe Weiner, Frances (cum laude) Williams, Rayhaanah (cum laude) Xorile, Noluyolo Innocantia Yekelo, Kamvelihle Kobus

Postgraduate Diploma in Environmental Management Nagraadse Diploma in Omgewingsbestuur

Endjala, Alina Jatty TN Luthuli, Mable Zakhi Maibelo, Hosia Sekwati Mapitsing, Dorcas Mashego Matasane, Nthisana Joyce Ngobeni, Takalani

Postgraduate Diploma in Project Management Nagraadse Diploma in Projekbestuur

April, Nozuko Avril Auwanga, Fillemon Banda, David

Bhengu, Xolisile *(cum laude)* Booley, Mogammad Firaas

Botes, Jacobus Josephus De Villiers (cum laude)

Botha, Morne Chipato, Victor Cima, Andisiwe

Coetzee, Machiel Christoffel Daya, Yatish Surendra (cum laude)

De Bod, Albertus

Engel, Hermann Charles (cum laude)

Erasmus, Petronella Sophia

Fourie, Albertus Johannes (cum laude)

Garwe, Fainah Gellant, Anslin

Goliath, Conroy Corne Bradwon

Haarhoff, David

Harrison, Marianna (cum laude)

Johns, Lee

Jordaan, Wilhelm Karl (cum laude)

Kamaledien, Safwaan Kanuka, Khanyisa (cum laude) Khan, Imran (cum laude) Kinsey, Raycene Shelane Kistasami, Kesigan

Koegelenberg, Cornelius Johannes Christiaan

Krieger, Channel Kumba, Mutono Kibali

Languza-Maku, Zizipho Penelope

Le Roux, Pierre Jean Lewis, Renee

Loff, Bianca Odette (cum laude)
Lottering, Chante Simone
Luvela, Smangele Precious
Mabuya, Cecilia (cum laude)
Mafunda, Sbusisiwe Valerie
Malatji, Tshepo Errol (cum laude)
Malombo Lucky Gabrian

Malembe, Lucky Gabrian Mamabolo, Cathrine Matsha, Joy Luvuyo Mbekeni, Nonhlanhla Mdingi, Nobesuthu Mgwenya, Abisage Mhlongacala, Kholeka Mkhwanazi, Zinhle

Mohlamonyane, Tshepiso Donald

Mokoena, Mponeng Mostert, Le Roux

Mpedi, Hezekiel Mabobela

Msebi, Nombasa Msomi, Khulekani Basil Mtolo, Sanelisiwe Precious Muzumbwe, Maloney Simon

Ncokwana, Sibahle Ndlovu, Lungelo Ngubane, Phumelele Ningiza, Aluta

Nursingh, Shona Pietersen. Darren Levertte

Pitso, Moeketsi

Pretorius. Danielle (cum laude)

Radzuma, Khuthadzo Rafapa, Khomotso Elias

Rowlands, Carol Ann (cum laude)

Scott, Brian

Shabangu, Ntombifuthi Hope

Shiweva, Libertina Sidu, Linda Skosana, Alice

Thompson, Raphael Julian

Thuynsma, Willem Frederik (cum laude) Van der Merwe, Anton Hendre (cum laude)

Van Rooyen, Dawid Johannes

Postgraduate Diploma in Financial Planning Nagraadse Diploma in Finansiële Beplanning

Abrahams, Alistair Craig

Arko-Cobbah. Phumzile Yvenne

Bam, Dylan Nicolas Barnard, Riane Antonette Bezuidenhout, Aleisha Sophia Burgess, Mia *(cum laude)*

Casale, Marisa Chandler, Amy Caitlin Chateau, Cara-Leigh

Chingonzoh, Fadziso Blessing

Da Costa, Kean Darries, Cherner

De Boer, Raoul Lennart (cum laude) De Kock, Frederika Maria (cum laude) De Ridder, André Johan (cum laude) De Villiers, Yvette (cum laude)

Dladla, Nokuthula Prisca

Dlamini Friedman, Zilindile Pholile

Du Toit, John *(cum laude)* Freeman, Jada Alexis Gija, Tuletu Sharon

Gous, Simonne (cum laude) Grobbelaar, Lara Lynn Hart, Marcel (cum laude) Hauptfleisch, Jean Henkel, Maxine Herselman, Francois (cum laude)

Hlangu, Senzo Human, Heinrich Katz, Jade Ashley

Khumalo, Sbongakonke Zamantungwa

Kleynhans, Chane (cum laude)

Kleynhans, Lisa

Lubbe, Ruan (cum laude)

Maharaj, Rakesh

Makgamatho, Ramokone Lebogang Lorraine

Mandingwa, Gilmore Marais, Dewet

Mashiane, Nothando Siphosihle

Mathie, Drew Angus Mbhalati, Gift

Menezes, Ronel (cum laude) Mnakaniso, Siyamthanda

Mniki, Lerato

Monaledi, Kgantsho Adele Monyane, Naledi Rowenah Tokie

Moon, Alex Neal Morrow, John David Ncala, Nonduduzo Ndou, Justice Pfuluwani

Nel, Annamarie Ngcobo, Khanya

Ogounga, Wanatimi Williams Ohlson de Fine, Craig *(cum laude)*

Parker, Fatima Bibi

Ramphele, Khotso Mphele

Sabasaba, Rethabile Peace Sibonginhlanhla

Scott, Raquel Selemi, Sandile

Sibiya, nothando christina

Simson, Waldeline Ndatoolewe Kula Sinibaldi, Alessandro (*cum laude*)

Smith, Johan *(cum laude)* Smit, Marthinus Laurentius

Smuts, Miko

Swanepoel, Alexander John

Tjiueza, Munee Tshitangano, Masindi

Van Heerden, Adele (cum laude)

Van Niekerk, Pieter-Jan Van Zyl, Carmen Lea Van Zyl, Kian *(cum laude)* Venter, Brendan John

Venter, Yoane

Verseput, Brody Mark Vollenhoven, Daniel

Wilks, Nicole Jean *(cum laude)* Zindela, Ntokozo Zamashazi

Postgraduate Diploma in Public Finance Management Nagraadse Diploma in Openbare Finansiële Bestuur

Bongoza, Thanduxolo Norman Dlamini, Sindiswa Lucia

Fikayo, Sakhele Madikane, Masixole Malghas, Khayakazi Mokgoasa, Setlalekgosi Mirriam (cum laude)

Mtshoko, Mkhuseli

Ntshangase, Silondile Nonkanyiso

Sikrwaca, Phumzile Wolfe, Marshall Tumelo

Postgraduate Diploma in Business Management and

Administration

Nagraadse Diploma in Besigheidsbestuur en

-administrasie

Adams, Pele Letlhogonolo Adriaanse, Jacobus Petrus

April, Petronella

Bangani, Edmond Sibabalo

Beukes, Richard Trevor Claude (cum laude)

Boloko, Linda Boltman, Boaz

Bosse, Bryce Stewart (cum laude) Botma, Gerard Christopher Braun, Jae Saskia (cum laude) Bredeveldt, Lara (cum laude)

Burger, Elsje Carter, Rodger Ian

Claassen, Ivan Anton (cum laude) Claassen, Talana (cum laude)

Coetzee, Chantel

Collins, Jacques Johan (cum laude)

Cruickshank, Maxine Davids, Sergio Davids, Winston De Beer, Jared

De Klerk, Albertus Johannes (cum laude)

Desai, Najma

Diphoko, Siyamthanda Noloyiso Dlamini, Nomcebo Tsandzekile Dollie, Mogammad Rithaa

Du Toit, Rene

Du Toit, Stephanus Francois (cum laude)

Dube, Kudzai

Frazer, Wayne Robert *(cum laude)* Gamieldien-Lockhat, Huda

Gcanga, Asanda

Hanekom, Danielle

Govender, Celine (cum laude) Grobler, Jolene (cum laude)

Groenewald, Hanre Johannes (cum laude) Guiney, Duncan Charles (cum laude)

Hansen, Jean Francois Hendricks, Stacey Anne Jedidiah, Vikesh Ramesh Kaahangoro, Kaupambua Kannemeyer, Reeze Kapongo, Sugrun Karna, Clayton Bernard Kazadi, Annuarite Mulanga Kiluvia, George Kachenje Kungoane, Mamodikwe

Lukhele-Dlamini, Nomthandazo Mthie

Mabuza, Zingisa *(cum laude)* Mafilika, Nkosinathi Simon Magazi, Khululwa

Mampuru, Lebogang Masohlwane

Marshall, Victoria Anne

Marwanqana, Patricia Nomvana Mashiane, Thulane Prince Shaun

Masinga, Thabang

Matlhoko, Ofentse Josephine Mbango, Helena Penehafo Nuusiku McHarg, Sheila Palesa *(cum laude)* McKenzie, Anastasia Rachel

Mlungu, Mfundo (cum laude) Mnkandla, Zamakhathide Mofokeng, Sellwane P Monyayi, Swethani

Morudu, Mapitso Mokgadi Mathabane Esme (cum laude)

Msibi, Thulani President Mudau, Motlalepule Mirriam Muizenheimer, Gary Anthony Mukwevho, Mutali Doris

Mupaso, Tendai

Mutswairo, Benevolence Naidoo, Ismail (cum laude) Ndzeku, Africa Sikho Nelson, Jarrad Wayde

Ngubane, Londiwe Thandeka Nhlengethwa, Thabane (cum laude) Notwana, Karabo (cum laude)

Odendaal, Franscois Heinrich (cum laude)

Phetla, Reuben Tshobidi

Pigou, Tlotlisang Dipallo Charity

Plaatjies, Rowena Elize

Rampedi, Matidi Tinah (cum laude)
Ravens, lucinda (cum laude)
Rust, Leon (cum laude)
Sabani, Vuyokazi Yolande
Scholtz, Inge (cum laude)
Setaka, Malefetsane William
Shepherd, Johnathan (cum laude)

Shiimi. Martha

Smith, Darren (cum laude)

Smit, Michelle

Snyman, Nicolaas Stephanus (cum laude)

Solomons, Badeeah

Stapelberg, Wessel Pretorius (cum laude)

Steenbok, Christoffer Bernardus

Tlala, Tebogo

Tshabalala, Flatter Sharon Twala, William Vusimuzi Van Coller, Lana (*cum laude*)

Van der Walt. Lodewikus (cum laude)

Van der Westhuizen, Marno Wiehan (cum laude)

Van Eeden, Derick Martin (cum laude)

Van Heerden, Altus Stephen

Van Heerden, Louis-Wilhelm (cum laude)

Van Tonder, Bronwyn *(cum laude)* Venter, Christiaan Stoman

Vink, Raylin (cum laude)

White, Andrew David (cum laude) Wilken, Lumar (cum laude) Wong Yuen, Maxime Kong-Siung (cum laude)

Woodley, Karin

Postgraduate Diploma in Futures Studies Nagraadse Diploma in Toekomsstudies

Amritlal, Rasheel (cum laude)

Antonello, Mark Bhowan, Bavika

Booley, Ulfah (cum laude)
Bouwer, Cara (cum laude)
Broster, Robert (cum laude)
Budhoo, Shanaz Bequrm
Buhr, Hendrik (cum laude)
Cilliers, Natasha (cum laude)
De Villiers, Barend (cum laude)
De Villiers, Jean-Marie (cum laude)

De Wet, Ockert *(cum laude)* Dikgale, Marakgatla Marang

Dikyale, Marakyalla Mar

Dlamini, Valencia

Du Hecquet de Rauville, Michel Louis Foster, Juan Edwin (cum laude) Govender, Kreshan (cum laude) Govender, Previn (cum laude) Govindasami, Laenthra (cum laude)

Gumbi, Babalwa

Hakim, George Warren (cum laude) Hamman, Claudius (cum laude)

Hendriks, Hermanus Arnoldus Johannes (cum laude)

Hoorneit, Vanessa Daphne (cum laude)

Janse van Rensburg, Benjamin

Jiya, Lebogang

Kamau, Samuel Charles (cum laude)

Katjaerua, Brian

Khoury, Gregory Robert (cum laude) Kiewitt, Natalie Diedre (cum laude) Kirsten, Felipe (cum laude)

Langa, Sinovuyo

Loni, Kholosa *(cum laude)* Mabena, Nonkululeko

Magwentshu, Pilasande Wanda Abednego

Maimela, Joseph Mohau Marais, Francis (cum laude) Marx, Johan (cum laude) McMeeking, Ryan Ivor

Mdletshe, Siphelele Princess Nomusa

Melody, Regan (cum laude) Mkhize, Mngani Clarance Moos, Yazeed (cum laude)

Mortimer, Andrew Russell (cum laude) Mosoeu, Nokuthula Cleopatra (cum laude)

Mostert, Patrick (cum laude) Msibi, Zamasibi Pretty (cum laude)

Msiwa, Moleko

Mungani, Aldrian Patson (cum laude)

Mushimba, Kuna Linda Mushi, Mmamariri Mzolo, Palesa Lerato

Nakale, Julius Twamanguluka (cum laude)

Ngakane, Lerato Palesa

Nghipandulwa, Mandume Ndihole Frans (cum laude)

Ntshikilana, Olona

Nyambe, Mpambo Daphine

Perumal, Jade Alana

Pettus, Juanitill Eldrieka

Potgieter, Petina

Qhalane, Palesa (cum laude)

Sawe, Caroline Shakwei

Shatika, David

Singh, Akash

Siyotula, Mandisa

Smith, Helga (cum laude)

Soni, Arusha (cum laude)

Southon, Valdene Asherell

Swart, Quintin

Tatana. Amanda (cum laude)

Tom, Zonwabele Zweli (cum laude)

Townsend, Brett (cum laude)

Tshongweni, Bonke (cum laude)

Van der Leek, Marius Pierre (cum laude)

Van der Westhuyzen, Chris Ivan (cum laude)

Vrey, Daniël Divan

Weideman, David SL

Witbooi, Keenen

Xulu, Basil Ntokozo

Postgraduate Diploma in Development Finance Nagraadse Diploma in Ontwikkelingsfinansies

Adegelu, Idowu Olugbengal

Galeka, Nontombi Elda

Gontshi, Chuma

Jeptha, Farren

Ledwaba, Lerato

Machabe, Pearl (cum laude)

Maloba, Tshegofatso Ngwakwana (cum laude)

Maoka, Lerato Yullande

Maphike, Adelaide

Mkwanazi, Sibongile

Mokgawa, Thato (cum laude)

Motsisi, Keabetswe Winnifred

Mpofu, Bongo Nangamso (cum laude)

Muwani, Sally

Namulo, Tessa

Nazer, Lana Ruth

Ngeera, Roselyn

Nqini, Sivuyisiwe (cum laude)

Ragwala, Mpfariseni Minah

Sekhonyana, Pamela Kuena

Tsubella, Sechaba (cum laude)

Visagie, Danie Burger

Zondi, Nokubonga Zwakala, Nasiphi

Zwane, Londoloza Trevor

Advanced Diploma in Public Accountability Gevorderde Diploma in Openbare Verantwoordbaarheid

Dolomba, Bulelwa Morobeng, Dennison Njobo, Xolani Maurice Tshefu, Dunyiswa

Diploma in Public Accountability Diploma in Openbare Verantwoordbaarheid

Arends, Nichole

Claassen, Esther

Daniso, Bridget Mandlakazi

Fisher, Camee Lesley Liezel

Gubula. Zwelethu

Jacobs, Ynoma

Magopeni, Tsholofelo

Morkel, Rugaya

Ngxowa, Sikhulule

Petersen, Faheema

Petersen, Kaylin Nicole

Plaatiies, Elzona

Reyneke, Annelise

Tikinca, Gcinikhaya

Tsokotsiynh, Cynthia Ntombi Fikile

Van der Westhuizen, Elfonso Eddie

Williams, Chanay Suzette

Zulu, Nokubonga

Diploma in Sustainable Development Diploma in Volhoubare Ontwikkeling

Habile, Rosita Lindobuhle

Hoppé, Zia Alexia

Khiva, Xabiso

Mc Tavish, Engracia (cum laude)

Seekoei, Tshiamo

Swanepoel, Alome' Joy

Tshabalala, Maqhawe Sibusiso

Van Heerden, Luan Henlou



Law · Military Science

27 March 2025 | 09:00

FAKULTEITE

Regsgeleerdheid · Krygskunde

27 Maart 2025 | 09:00

Programme

Please stand 1. Entrance of academic procession into the hall.

Please stand 2. Playing of the National Anthem.

Please sit 3. Congregation formally constituted by the Vice-Chancellor.

4. Welcome by the Vice-Chancellor.

5. Presentation of candidates receiving qualifications by the dean of the faculty and conferment of qualifications by the Vice-Chancellor.

6. Closing by the Vice-Chancellor.

Please stand 7. The academic procession leaves the stage.

Program

Staan asseblief 1. Akademiese prosessie kom die saal binne.

Staan asseblief 2. Speel van die Nasionale Lied.

Sit asseblief 3. Formele konstituering deur die Visekanselier.

4. Verwelkoming deur die Visekanselier.

5. Voorstelling van kandidate wat kwalifikasies ontvang deur die dekaan van die fakulteit en toekenning van kwalifikasies deur die Visekanselier.

6. Sluiting deur die Visekanselier.

Staan asseblief 7. Akademiese prosessie verlaat die verhoog.

Faculty of Law Fakulteit Regsgeleerdheid

DOCTORAL QUALIFICATIONS | DOKTORALE KWALIFIKASIES

DOCTOR OF LAWS
DOKTOR IN DIE REGTE

HUYSAMEN. Elsabé (Mercantile Law)

The future of a prohibition on indirect unfair discrimination as part of South African anti-discrimination employment law: A comparative reflection

Equality in employment is promoted through a combination of a prohibition on direct and indirect unfair discrimination, and the implementation of affirmative action. Among these mechanisms, the prohibition on indirect discrimination holds significant potential as a transformative tool, departing from the premise that equal treatment may have unequal outcomes. This study analyses this transformative potential, as well as the reasons why indirect discrimination has enjoyed scant attention in South African workplaces, especially compared with the United States, United Kingdom and Canada. The research affirms the need for a continued role for the concept and makes proposals for its efficient dissemination.

Supervisor: Prof CJ Garbers

JANSEN, Gretchen Sulene (Mercantile Law)

A critical examination of performers' rights to remuneration as an effective protective mechanism for commercial musicians in South Africa

The plight of South African commercial musicians has been observed for decades, with the relationship between musicians and record companies playing a central role. In this regard, the role of performers' rights under the Performers' Protection Act 11 of 1967 is often overlooked. This study examines how performers' rights to remuneration can help improve musicians' financial outcomes. It calls for stronger protection of performers' rights, along with more robust regulation of collective management organisations entrusted to administer such rights, to ensure fair and equitable remuneration for musicians from the commercial exploitation of their music.

Supervisor: Prof S Karjiker

JEEWA. Tanveer Rashid (Public Law)

Using the master's tool to secure the occupiers' house: Expropriation as appropriate and effective relief in cases of mass unlawful occupation

South Africa's housing crisis has led to mass unlawful land occupations, reinforcing apartheid-era spatial inequalities. This study canvasses a definition for mass unlawful occupation, expands on a critical transformative property theory, and proposes an innovative remedial framework. Existing legal remedies fail to balance landowners' rights with occupiers' protection from eviction. The research advocates for statutory expropriation as a viable solution. By amending section 9(3) of the National Housing Act, the state can acquire occupied land, ensure secure tenure for occupiers, and address landowners' concerns – offering a principled, practical response to this urgent issue.

Supervisor: Prof ZT Boggenpoel

LETLONKANE, Katlego Princess (Mercantile Law)

Social Justice at the Commission for Conciliation, Mediation and Arbitration (CCMA) and the Critical Role of the Commissioner

This study provides exploratory insight into the social justice mandate of the Commission for Conciliation, Mediation and Arbitration (CCMA) and its most critical functionary, the Commissioner. The main objective is to transform the pursuit of social justice from an elusive endeavour to a more tangible, realistic one. The research offers a way of thinking about and applying social justice by engaging the interwoven power asymmetries and bias in labour relations, presenting a transformative lens that integrates ubuntu. The study advocates for the empowerment of CCMA Commissioners to take up their role as social justice agents and disrupt workplace inequality.

Supervisor: Prof T Madonsela Co-supervisor: Prof T Broodryk

UYS, Hugo (Public Law)

Framed and caged: Theorising the vulnerability of animal bodies before the law

Despite laudable aims, animal advocacy efforts remain ineffective at realising a widespread transformation of human-animal relations. One significant challenge is the law's failure to confront its own complicity in enabling and maintaining the ongoing subjugation of animals. In the pursuit of animal liberation, this study offers a sympathetic critique of animal law. To this end, it reads critical legal theory together with the emerging posthumanities to think through the entanglement of bodiment, animality and law. Ultimately, the study offers a post-disciplinary articulation of a renewed juridical imaginary with which to pursue the future emancipatory and post-anthropocentric development of animal law.

Supervisor: Prof H Botha Co-supervisor: Prof L du Toit

VAN SCHALKWYK, Christiaan (Public Law)

Integrating environmental considerations in socioeconomic rights adjudication: The role of ecologically sustainable development

The intersecting threats that the ecological crisis poses to human rights require a recognition of the interdependence between socioeconomic and environmental rights. Of particular importance is the responsiveness of socioeconomic rights adjudication to the convergence of socioeconomic and environmental disadvantage. This study explores how the concept of sustainable development in section 24(b)(iii) of the Constitution should serve as a bridge to operationalise the interdependence between socioeconomic and environmental rights. It makes recommendations on how environmental considerations could be integrated in all stages of socioeconomic rights adjudication, including interpreting the normative content of rights and broadening the reasonableness standard of review.

Supervisor: Prof S Liebenberg

Faculty of Law Fakulteit Regsgeleerdheid

OTHER QUALIFICATIONS | ANDER KWALIFIKASIES

Master of Laws Magister in die Regsgeleerdheid

Barnes, Jade Kerenchia

Beukes, Marilie

Goliath, Stacey Melanie (cum laude)

Jasson, Willbur Davern

Kasker, Zareef

Kgaamedi, Mmamoraka Portia Kotze, Stefanie (cum laude) Mahole, Lekgowa Harry Mailovich, Claudine Lydia Malepane, Lerato Nthabiseng

Malilwe, Bernadette Nchimunya Muzeta

Manikai, Matifadza Joy

Mashabane, Phiwengesihle Hycinth

Matyaleni, Sinethemba Maunatlala, Matjitji Isaack Mayumbelo, Christopher Sitali Melato, Lerato Nthabiseng Mere, Kegomoditswe

Mpono, Xolisa Mutua, Andrew

Myambo, Mxolisi Adolphus Ndungane, Ziyanda Nyameka

Nembungu, Beatha Newman, Aiden Nhlapo, Busisiwe

Nsimbini, Nonhlanhla Thobile

Nyati, Kwezi

Oosthuizen, Dawid Johann

Otto, Charl Hill Sandaza, Akhona Sedumedi, Tshiamo

Shelembe, Khethiwe Precious

Sono, Tiyiselani Thaba, Letso Tiiso

Theron, Malverene Francis-ann

Tjikunga, Victor Paulino

Van Biljon, Wilmien *(cum laude)* Van der Watt, Danielle Elana Van Rooyen, Aakifah *(cum laude)*

Wissem, Christopher

Zungu, Artwell Thokoza Mlungisi

Master of Laws in Alternative Dispute Resolution Magister in die Regsgeleerdheid in Alternatiewe Geskilbeslegting

Adjei, Stephen Motsumi, Tapaphiwa

Nxumalo, Thembelani Ernest

Postgraduate Diploma in Public Procurement Policy and Regulation

Nagraadse Diploma in Staatsverkrygingsbeleid en -regulering

Moshidi, Phillipine Mampineng

Postgraduate Diploma in Tax Law Nagraadse Diploma in Belastingreg

Oosthuizen, Stephan Johan

Bachelor of Laws Baccalaureus in die Regsgeleerdheid

Africa, Calleigh Anne Arran, Seyuran Beukes, Kyle

Botha, Leonay Mishke Burger, Marle Karla Burrows, Jazièl Anverithe Chappel, Hannah Lucia

Cronje, Elrie Cronje, Inca Andea Crous, Sonet De Swardt, Jean

De Villiers, Yanti Reinette Du Plessis, Daniel Pierré Engelbrecht, Anrika Fortuin, Amber Whilline

France, Lilitha Geragotellis, Mersini

Gush, Franki Hamer, Jarred Ray Haw, James Laurence Heynes, Danel

Huysamer, Munnik Anderson

Jackson, Hannah Jacobs, Clyde Luke Kapa, Georgina Kennedy, Taylor Paige Kesonk, Jenna Margot Koegelenberg, Lieschke

Koen, Alexa Kraba, Milisa Buhle Lamprecht, Cornel Lewis, Cherie Liwani, Aviwe

Mahomed, Aadila Ashraf Dawood

Massey, Bridget Ann Melim, Antonia Mookrey, Hamida Motsi, Munashe David

Mujuru, Chelsea Tadiwanashe

Munnik, Donéka

Murambasvina, Rufaro Evelyn

Ndoyana, Siqhamo Esihle

Ntuli, Nontsikelelo Christina

Opperman, Rumér Jade

Petersen, Saadiqa

Prins, Suzanne

Punt, Jandre Friedrich

Roelofse, Julia

Rossouw, Jana

Setlhare, Amogelang

Skriker, Daniel Michael

Smith, Tatum Leigh

Stannius, Tiah

Steyn, Jarred Gabriel

Steyn, Miencke

Swanepoel, Dian Biandi

Swanepoel, Savannah Jade

Thabethe, Paballo Precious

Theron, Ane

Toyer, Thaakiyah

Tregoning, Georgina Meg

Tshauambea, Tendani Brian

Van der Merwe, Alida Maria

Van der Merwe, Andrea Mieke

Van der Walt, Maarten Petrus Albertus

Van Schalkwyk, Luke Matthew

Van Zyl, Miaan

Venier, Matthew John Buchanan

Vermaak, Roxanne Marie

Verster, Klia

Wahl, Tane

Bachelor of Accounting and Bachelor of Laws Baccalaureus in Rekeningkunde en Baccalaureus in die Regsgeleerdheid

Bradbury, Robert Andrew

Cousins, Michelle Barbara

Du Toit, Anya

Malherbe, Chris Douglas (cum laude)

Shiba, Rushay

Walker, Chantelle Ashleigh Shannon

Faculty of Military Science Fakulteit Krygskunde

OTHER QUALIFICATIONS | ANDER KWALIFIKASIES

Master of Philosophy in Defence Studies Magister in die Wysbegeerte in Verdedigingstudie

Diale, Koloane Matildah (Defence Studies)

Master of Military Science Magister in die Krygskunde

Motloung, Oratile Puseletso (Military Science) Radebe, Vuyisile January Solomon (Military Science) Sehone, Alfred Mogotsi (Technology)

Postgraduate Diploma in Defence Studies Nagraadse Diploma in Verdedigingstudie

Masinga, Leonard Prince Jabulani

Bachelor of Military Science Baccalaureus in die Krygskunde

Leyds, Ashlynn Cherneil Sass, Sharoleen Roleen

Bachelor of Military Science in Defence Intelligence Studies Baccalaureus in Krygskunde in Verdedigingsintelligensiestudies

Alexander, Jason Tyrone

forward together sonke siya phambili saam vorentoe

Faculty of Engineering 27 March 2025 | 13:00

Fakulteit Ingenieurswese

27 Maart 2025 | 13:00

Programme

Please stand 1. Entrance of academic procession into the hall.

Please stand 2. Playing of the National Anthem.

Please sit 3. Congregation formally constituted by the Vice-Chancellor.

4. Welcome by the Vice-Chancellor.

5. Presentation of candidates receiving qualifications by the dean of the faculty and conferment of qualifications by the Vice-Chancellor.

6. Closing by the Vice-Chancellor.

Please stand 7. The academic procession leaves the stage.

Program

Staan asseblief 1. Akademiese prosessie kom die saal binne.

Staan asseblief 2. Speel van die Nasionale volkslied.

Sit asseblief 3. Formele konstituering deur die Visekanselier.

4. Verwelkoming deur die Visekanselier.

5. Voorstelling van kandidate wat kwalifikasies ontvang deur die dekaan van die fakulteit en toekenning van kwalifikasies deur die Visekanselier.

6. Sluiting deur die Visekanselier.

Staan asseblief 7. Akademiese prosessie verlaat die verhoog.

Faculty of Engineering Fakulteit Ingenieurswese

DOCTORAL QUALIFICATIONS | DOKTORALE KWALIFIKASIES

DOCTOR OF PHILOSOPHY DOKTOR IN DIE WYSBEGEERTE

ARMSTRONG, Ridge McGibbon (Industrial Engineering)

Toward sustainability: A conceptual framework for South African social enterprises

This study investigates how social enterprises (SEs) can achieve financial self-sustainability while creating social impact, focusing on the South African context. The resulting conceptual framework provides practical tools and canvases for understanding an SE's identity, business model, social impact and hybridity to reach self-sustainability. The canvases are the identity canvas, typology canvas, lifecycle canvas and SE canvas, which consists of the business model, social impact and hybrid organising layers. The design science research method is employed, with empirical evaluations including semi-structured interviews, framework ranking interviews, and an event history analysis of a mature SE.

Supervisor: Prof SS Grobbelaar Co-supervisor: Dr MS Dijksterhuis

ARRIES, Jared Tyrell (Civil Engineering)

Predictive modelling of vehicle speeds while traversing modern roundabouts based on geometric design characteristics

This study explores the impact of various geometric design characteristics on the maximum speed at which a vehicle can safely traverse a modern roundabout under uninterrupted, low-flow conditions. It evaluates existing methods for speed estimation and identifies their limitations. Through empirical analyses, it proposes data-driven methodologies for more accurate and consistent speed estimates. Multivariate regression models and neural networks are explored to better understand the relationships between geometric features and speed through roundabouts, particularly at entry points. The research advances roundabout design, offering empirical methodologies to replace existing subjective methodologies.

Supervisor: Dr MM Bruwer

BHEBHE, Meluleki (Industrial Engineering)

The role of lead users in new product development in the healthcare sector

Lead users, a unique category of product users, are not just consumers, but also active innovators. Their expertise, which is often cutting-edge, positions them at the forefront of their fields. Lead users' insights, derived from their ability to identify needs and solutions ahead of the curve, make them valuable participants in new product development (NPD) and innovation. There exists a need to develop a guiding framework for involving lead users in NPD. The research develops such a framework, exploring several aspects along the way. These include lead user identification, NPD stage and engagement methods.

Supervisor: Prof SS Grobbelaar Co-supervisor: Prof ME Herselman

BOSHOFF, Francois Daneel (Mechanical Engineering)

Forced draught supercritical carbon dioxide cooling system performance

A fan is designed for an air-cooled heat exchanger of a concentrated solar power plant, based on a supercritical carbon dioxide Brayton cycle. The fan performance is experimentally tested in a standardised test facility and simulated using computational fluid dynamics. The integrated fan and air-cooled heat exchanger unit is modelled using a co-simulation method, which models the air-side flow through computational fluid dynamics, and the supercritical carbon dioxide flow by means of a thermofluid network model. The co-simulation estimates the thermal performance of the heat exchanger and provides a detailed, practical understanding of how the system is expected to behave.

Supervisor: Prof SJ van der Spuy Co-supervisor: Dr JP Pretorius

BOTHA, Stefan (Electrical Engineering)

Design and evaluation of brushless doubly-fed electric machines

The increased demand for wind turbine reliability has led to the development of brushless variable-speed machines capable of being directly grid-tied. The brushless doubly-fed machines stand out as a promising option due to their similarity in operation to the doubly-fed induction generator (DFIG), whilst offering increased reliability. This research focuses on the design, optimisation and comparison of brushless doubly-fed machines for use in wind energy conversion systems (WECS). The brushless doubly-fed induction and reluctance machines are developed and experimentally evaluated and compared to the rotary transformer-coupled DFIG. The results indicate the suitability of the reluctance machine for further development in WECS.

Supervisor: Prof N Gule

BROBBEY, Mensah Sarpong (Chemical Engineering)

Techno-economic and environmental analyses to identify preferred sugarcane biorefinery scenarios to produce acrylic acid, propylene glycol and associated chemicals in a multiproduct platform approach

Globally, the sugar industry faces challenges associated with low market prices and over-supply. By utilising A-molasses and/or sugarcane bagasse to produce environmentally friendly platform chemicals, the adverse climate effects of products derived from fossil fuels can be addressed. This study demonstrates the feasibility of producing acrylic acid, propylene glycol and other co-products from sugar-based feedstock through lactic acid as intermediate (platform). Sugarcane biorefineries producing lactic acid only, or multiple products from lactic acid, are economically and environmentally beneficial, and thus viable options to revitalise the sugar industry.

Supervisor: Prof JF Görgens

BROWN, Lienke Marié (Industrial Engineering)

A meta-learning framework for link prediction algorithm selection based on network structure analysis

A novel framework is proposed for improved network link prediction algorithm selection by integrating network structure analysis and meta-learning. The framework guides a user during the process of meta-feature extraction from synthetic or real-world networks, with the aim of predicting link prediction algorithm performance for different types of networks. These predictions are then used to recommend suitable algorithms for new link prediction tasks. The utility of the framework is demonstrated by performing an empirical analysis in respect of benchmark networks, thereby illustrating its ability to facilitate more informed algorithm selection and better predictive accuracy than was previously possible.

Supervisor: Prof JH van Vuuren Co-supervisor: Dr GS Nel

CHIDAVAENZI, Grace Tariro (Industrial Engineering)

Developing outcome-based models within a healthcare context

The global push for Universal Health Coverage underscores the need for healthcare systems to provide quality care, while managing costs. In Africa, securing healthcare investment remains both vital and challenging. Outcome-based models (OBMs), which link payments to results instead of service volumes, present a promising solution. This study develops an OBM framework and management tool, using the Design Science Research methodology. It identifies key OBM concepts and outlines the activities and roles of stakeholders in developing OBMs and sharing financial risk. The resulting tool supports the shift from traditional fee-for-service models to OBMs, fostering value creation for both payers and providers.

Supervisor: Prof SS Grobbelaar Co-supervisor: Dr F Salie

CHUNG, Sung Bok (Mechatronic Engineering)

A design process for a wearable hand-assistive soft robotic device allowing flexion and extension for different hand sizes

There is growing interest in designing soft robotic hand rehabilitation gloves. Yet no design process exists that can simplify the procedures needed to conceptualise the glove's soft actuators and assist patients in performing tendongliding exercises tailored to fit their hand dimensions. This study contributes to a design framework that considers the finger–actuator interaction and creates tools that can be used to characterise the response of computationally expensive simulation results. It establishes a process to experimentally validate the device's safety and performance without directly testing on patients, utilising a dummy finger testing rig to interact with the final actuator design.

Supervisor: Prof MP Venter

CREMER, Labau (Mechanical Engineering)

Towards patient-specific articulating implants: Wear properties of polymeric materials on additively manufactured metallic alloys

Advancements in metal additive manufacturing have enabled the production of innovative joint implants, potentially improving implant lifespan. Ti64 is a biocompatible alloy that is well established in the additive manufacturing industry. However, joint implants manufactured from this alloy exhibit low wear resistance when left untreated. Therefore, this study develops a boost diffusion heat treatment to improve the wear properties of additively manufactured Ti64 against medical-grade polymers. Pre-clinical wear testing demonstrates improved abrasive wear properties, highlighting the treatment's effectiveness. The findings from this study have the potential to unlock the accompanying benefits of additive manufacturing in joint implant applications.

Supervisor: Dr J van der Merwe Co-supervisor: Prof TH Becker **DAWOOD**, Mohammud Fuzail (Industrial Engineering)

A framework for food distribution guided by a spatial index of food insecurity

A novel framework is introduced in this study for integrating spatial analysis, machine learning, and resource allocation with a view to assessing and improving regional food insecurity. The framework is capable of establishing a non-algebraic, spatial index that quantifies food insecurity. The index may be embedded in mathematical models capable of proposing actionable recommendations for food security initiatives. The working of the framework is illustrated in the context of food-banking in South Africa, demonstrating that the framework may facilitate a significant advancement in the quantitative modelling of food insecurity, by supporting more effective interventions.

Supervisor: Prof JH van Vuuren

DEVINE, Courtney Kaylor (Civil Engineering)

Fire safety in commercial plastic recycling facilities

Increased global consciousness of the need to take care of the planet, reduce waste and recycle has resulted in an increase in plastic recycling over the past 70 years. However, the number of fires in plastic recycling facilities has increased. This research identifies fire hazards in the plastic recycling process and quantifies the thermal properties of recycled plastic material. This is then used to develop numerical models to simulate fire behaviour and predict fire spread in such facilities in order to design protection systems and identify mitigation strategies that would make the plastic recycling industry safer and promote plastic recycling.

Supervisor: Prof RS Walls Co-supervisor: Dr N Flores-Quiroz

DUBE, Tsepo Maqhetuka (Industrial Engineering)

The techno-economic aspects for the qualification of sustainable reconditioning and spheroidization of Titanium Alloy (Ti6A14V) powder for additive manufacturing

This techno-economic study proves the feasibility of economically reconditioning Ti6Al4V powder for reuse. The study uses the Tekna 15 kW system machine to spheroidise and recondition titanium powder for selective laser melting. A value chain analysis was used to evaluate processes and identify areas for improvement. The 90-106 μm powder was found to be commercially and technically viable, with profit margins determined by the powder's selling price. The study also uses Cradle Computational fluid dynamics software to develop a simulation of the spheroidisation system conditions.

Supervisor: Prof AF van der Merwe Co-supervisor: Prof S Matope

DU PLESSIS, Maximiljan (Mechanical Engineering)

An improved system for the measurement of blast waves in heterogenous environments tested on rapid minefield breaching

This study investigates explosive minefield breaching techniques, focusing on blast wave behaviour, particularly 'skip zones', where mines fail to detonate. It introduces a novel, wireless sensor system to capture high-resolution blast data in harsh environments. The research combines experimental and numerical analyses to study line charge configurations, uncovering factors such as undulations that affect blast wave uniformity and efficiency. The findings contribute to refining minefield breaching systems, ensuring better safety and performance. The research also integrates advancements in microelectromechanical systems (MEMS) and system-on-a-chip (SoC) technologies, providing a cost-effective, precise tool for analysing blast dynamics in diverse conditions.

Supervisor: Prof N Mahomed Co-supervisor: Dr R Heise (external)

DU PLESSIS, Susanna Hendrina (Chemical Engineering)

Improving the understanding of the complex phase behaviour of mixtures containing various organics and supercritical carbon dioxide

Phase equilibrium data are vital for the development and advancement of industrial processes. High-pressure phase equilibrium investigations are usually system-specific, preventing the widespread implementation of high-pressure separation processes. This study investigates the phase behaviour of carbon dioxide + solute + solute systems where the solutes include 1-alcohols, n-alkanes, methyl esters and n-carboxylic acids. Complex solute-solute interactions are identified and characterised in each group of systems considered, based on the intermolecular interactions between molecules. Enhanced or reduced mixture solubility and, in extreme cases, co-solvency or island systems are identified. This ultimately complicates the separation and modelling of these systems.

Supervisor: Prof CE Schwarz

EARL, Andrew (Industrial Engineering)

Critical making, critical niches: Co-design for energy transitions and living labs in South Africa

This study addresses the challenges of power and knowledge differences in co-design processes for energy transitions in living labs in low-income communities in South Africa. The CMCN research product is created to address these challenges. The product comprises three elements: Firstly, a conceptual framework links co-design, energy transitions, living labs and energy transitions in South Africa. Secondly, a co-design method addresses the challenges based on critical making. Finally, a data collection tool investigates the challenges as they are addressed in co-design processes. Having been verified with subject matter experts, the research product is refined and then validated in a case study.

Supervisor: Prof IH de Kock

Co-supervisor: Prof F Ceschin (external)

EICHIN, Fabian (Electrical Engineering)

Dynamic behaviour of permanent magnet traction machines during symmetrical short circuits

This study explores the dynamic behaviour of modern permanent magnet (PM) traction machines during short circuits – a critical concern in traction applications due to the potential risks to the drive system's electro-mechanical integrity. Analytical and semi-analytical methods are introduced that offer a faster alternative to traditional numerical approaches, enabling seamless integration into design workflows and optimisation processes. By facilitating swift and accurate fault analysis, these methods contribute to improved system reliability and performance. Experimental validation as well as a case study demonstrate the practical efficacy of the proposed techniques to assist in advancing robustness against faults in traction drives.

Supervisor: Prof R Wang

Co-supervisors: Prof MJ Kamper, Dr S Gerber

FOURIE, Jack Duncan (Electronic Engineering)

Gap waveguide array element filters

Sub-terahertz frequencies are an attractive option for 6G communication systems to provide larger bandwidths. Several scientific bands operate near these frequencies, and care must be taken to suppress out-of-band transmission with filters that must be closely integrated with the complete transmitter system, and thus are spatially constrained. This study presents the design of three filter systems. The first is used to investigate coupling between adjacent transmitter channels. The second is designed and manufactured to minimise channel coupling whilst maximising out-of-band attenuation. The last implements a complex filter polynomial whilst conforming to the spatial constraints.

Supervisor: Prof P Meyer Co-supervisor: Dr W Steyn

GOVENDER, Preyin (Mechanical Engineering)

The effect of powder properties on laser powder bed fusion of Tungsten Carbide-Cobalt

This study investigates the effect of powder properties on laser powder bed fusion of WC-Co. Commercially available WC-Co powders designed for high-velocity oxygen fuel are evaluated for their suitability for laser powder bed fusion. Spreadability experiments are performed and a suitable layer thickness is chosen. Printing of the as-built components is carried out, and critical parameter identification and adjustments are made. Through post-printing characterisation, the as-built components and their properties are evaluated, after which the powder properties are related to the as-built characteristics.

Supervisor: Prof D Blaine Co-supervisor: Prof N Sacks

INDERMUN, Shival (Mechanical Engineering)

Semantic and visual robotic navigation in dynamic environments

This study addresses the challenge of dynamic environments in visual SLAM for autonomous mobile robots (AMRs), particularly in public spaces with human presence. A novel human-object interaction detection approach is introduced, using spatial reasoning to filter out dynamic objects and enhance tracking accuracy. The method, tested with ORBSLAM3 on dynamic datasets, significantly improves performance. Additionally, a risk-aware navigation system is developed, utilising semantic cost maps generated through object detection models. This system dynamically adjusts safety margins based on human-object interactions, ensuring safer, more efficient robot navigation in human-populated environments. The approach improves both the robustness and adaptability of AMRs.

Supervisor: Prof K Schreve Co-supervisor: Prof M Rätsch (external)

JACOBS, Rentia (Industrial Engineering)

A machine learning-aided multi-objective optimisation decision support framework for the healthcare social enterprise location problem

The healthcare social enterprise location problem requires the strategic selection of healthcare social enterprise locations to enhance their scalability and impact. This study proposes a generic machine-learning-aided multi-objective optimisation framework to aid the development of decision support systems capable of addressing the healthcare social enterprise location problem. Moreover, two multi-objective mathematical models are proposed for inclusion in the proposed framework. A computerised decision support system instantiation of the proposed framework is demonstrated as a proof of concept. The computerised instantiation of the framework is successfully verified and applied to two real-world case studies as a means of validation.

Supervisor: Prof J Grobler

Co-supervisor: Prof SS Grobbelaar

KLEINHANS, Meraki Emmi (Industrial Engineering)

Introducing role theory to analyse innovation for inclusive development systems

Innovation for inclusive development (I4ID) aims to improve the living conditions of marginalised communities by addressing their exclusion from mainstream innovations. Unfortunately, I4ID interventions often fail to produce significantly improved social outcomes. In this study, a conceptual framework and accompanying practical tools are proposed to analyse actors' involvement in I4ID projects. The framework is constructed through three development and evaluation cycles, and role theory is integrated with event history analysis and innovation system analysis methods. By utilising the conceptual framework, project implementers can generate actor-related insights and learn from previously implemented projects, enhancing their understanding of I4ID contexts for future interventions.

Supervisor: Prof SS Grobbelaar Co-supervisor: Prof ME Herselman

LAMPRECHT, Danielle Lee (Chemical Engineering)

$T\tau\tau$ -Framework for the evaluation and improvement of phase behaviour description with the NRTL activity coefficient model

Accurate thermodynamic modelling is crucial for separation and chemical process design and simulation. The Non-Random Two Liquid (NRTL) activity coefficient model is well established and widely used for this purpose. This study develops a framework to improve understanding and, thus, the implementation of the NRTL model for multicomponent, multiphase equilibrium description. Incorporating *a priori* insight from this work, combined with the convenient tools developed, significantly reduces the complexity and computational expense of parameter fitting and improves the overall model performance. Furthermore, the novel methods developed are designed to be accessible and practical for both novice and experienced engineers.

Supervisor: Prof CE Schwarz

LOUW, Daniël Francois (Mechanical Engineering)

Fracture of laser-based powder bed fusion produced Ti6AI4V

This project seeks to provide insights that enable the design of damage-tolerant, high-performance components produced out of Ti6Al4V by laser-based powder bed fusion (LPBF). By investigating the relationship between fracture toughness, microstructural characteristics and residual stresses, progress is made towards producing more damage-tolerant components. Finally, the capability of predicting support breakage, delamination and in situ cracking with finite element modelling (FEM) of the process are evaluated. This capability has the potential to significantly reduce the number of trial-and-error iterations needed to successfully manufacture a component free from such issues.

Supervisor: Prof TH Becker Co-supervisor: Dr M Neaves

MAHLATHI, Christopher Dumisani (Civil Engineering)

Water quality modelling and management of nitrogenous compounds in a data scarce environment

This study addresses the challenges of modelling nitrogenous compounds in South African rivers affected by wastewater treatment plant effluents in data-scarce conditions. Systematised guiding principles for water quality modelling are developed, covering data sourcing, augmentation techniques and hydrodynamic variability. The research demonstrates practical applications of these principles, using Model Predictive Control to manage ammonia concentrations effectively in river systems. Findings reveal the feasibility of Model Predictive Control strategies, as well as the critical role of data augmentation in improving model performance. This work contributes valuable insights for sustainable water resource management in South Africa, providing a framework adaptable to similar contexts globally.

Supervisor: Prof JA du Plessis Co-supervisors: Drs J Wilms, IC Brink

MICHAEL-AHILE, Terhemba (Electronic Engineering)

Data-driven energy management strategies for low-income schools in developing regions

This study addresses the energy challenges faced by low-income schools in developing regions through a comprehensive data-driven framework. Publishing and leveraging a yearlong dataset from 53 low-income South African schools, it establishes localised energy performance benchmarks. The framework integrates tailored photovoltaic (PV) and battery sizing, scheduling algorithms to optimise energy use, and community-based energy trading to reduce dependency on unreliable grids. Strategies such as load shifting and real-time monitoring maximise solar energy efficiency, enabling significant cost reductions and environmental sustainability. By adopting scalable, context-specific solutions, the research empowers under-resourced educational institutions to achieve greater energy efficiency, resilience and financial sustainability.

Supervisor: Prof MJ Booysen Co-supervisor: Dr JA Samuels

MOORE, Willem Roux (Industrial Engineering)

A framework for modelling customers invoice payment predictions

A generic framework is proposed in this study for predicting customer invoice payment dates. The purpose of the framework is to facilitate the process of preparing transaction data for analysis, generating new features from past customer behaviour, and selecting and ensembling suitable models for prediction purposes. A new sequential ensembling method, the survival boost algorithm, is also introduced, and the improvement in predictive performance brought about by this algorithm is demonstrated. A computerised instantiation of the framework is finally verified and validated in respect of a real-world data, thereby demonstrating the practical value of the framework.

Supervisor: Prof JH van Vuuren

MUGYEMA, Morris (Electrical Engineering)

Evaluation of drive technology for a dry gravity energy storage system

As environmental concerns about fossil fuel emissions grow, renewable energy sources (RES) are becoming essential. However, RES unpredictability poses grid operation challenges, requiring robust networks. The linear electric machine gravity energy storage system (LEM-GESS) emerges as a solution, enhancing grid stability. With features such as geographical flexibility, modularity, scalability, long lifespan and costeffectiveness –powered by a linear permanent magnet flux-switching machine (LPM-FSM) drive – LEM-GESS proves competitive. This study demonstrates its potential against conventional storage systems such as battery and flywheel, particularly for primary frequency response applications, positioning LEM-GESS as a sustainable and efficient energy storage alternative for modern grids.

Supervisor: Prof MJ Kamper

Co-supervisors: Profs R Wang, AB Sebitosi

MULUBIKA, Chibaye (Mechatronic Engineering)

Global positioning system denied navigation of visual simultaneous localisation and mapping generated maps

This study addresses the issue of recovering the trajectory of a robot with differential drive that uses visual simultaneous localisation and mapping (vSLAM) to explore the environment. The robot uses vSLAM and an inertial measurement unit (IMU) to map an unfamiliar environment, while localising itself in the map. Using a novel software layer, the robot saves its frame data (motion and orientation based on keyframes and IMU data), while it performs the mapping task. This software layer allows the robot to go back to the initial position of the mapping task after camera failure during the mission, without accessing global positioning system (GPS) signal.

Supervisor: Prof K Schreve

MUNHEMBA, Tinashe (Civil Engineering)

An investigation into plant (*Juncus effusus*) biofilter nitrification modelling

This study examines ammonia removal from stormwater by means of *Juncus effusus* biofilters enhanced with inoculated rhizosphere bacteria. A laboratory-scale prototype with a plug compartment to simulate plug flow dynamics is developed and tested. A nitrification model, based on a mass balance approach, is created to integrate microbial nitrification, plant uptake and soil sorption. Two biofilm models, fully penetrated and partially penetrated, are tested and validated across a wide range of ammonia concentrations. The models are found to reliably predict upper and lower limits for ammonia effluent, with most experimental values falling within the predicted range.

Supervisor: Dr A Bosman
Co-supervisors: Dr IC Brink, Prof TE Cloete

MUSAKWA, Rodney (Engineering Management)

A decision-making framework for facilitating inclusive business model design interventions between smallholder vertical farmers and small to medium-sized enterprises in sub-saharan Africa

In response to climate, water, soil and pest-related challenges, smallholders in sub-Saharan Africa have started adopting customised vertical farming practices. While this method offers benefits such as increased yields and year-round production, developing financially sustainable business models that support long-term market coordination remains a challenge. This study develops a framework to facilitate the application of business model design interventions required for creating more inclusive business models between smallholder vertical farmers and small and medium-sized enterprise vegetable buyers. Through expert interviews and case studies, the framework is evaluated and refined, demonstrating considerable promise for fostering long-term market coordination.

Supervisor: Prof L Louw

Co-supervisor: Prof SS Grobbelaar

OOSTHUIZEN, Chiara (Engineering Management)

The development of a dynamic capabilities framework for leading and managing digital transformation initiatives, integrating change management

This study explores the dynamic interplay between Dynamic Capabilities, Change Management, and Digital Transformation to develop a comprehensive framework that enhances organisational adaptability in the digital era. Through an extensive literature review, the research identifies a gap in integrating Dynamic Capabilities and Change Management within Digital Transformation contexts. Using a Design Science Research Methodology with expert interviews and surveys, it validates the Digital Transformation Dynamic Capabilities framework. Findings highlight the importance of leadership commitment, strategic alignment, continuous learning and supportive culture for digital adaptation. The study advances theory and provides practical strategies for organisations to navigate digital transformation in an evolving marketplace.

Supervisor: Prof SS Grobbelaar

OTTO, Ebert Rowan (Engineering Management)

Towards a framework for productivity management employed in a complex hospitality resort

This study develops and implements the Total Productivity Management framework (TPMan), fostering a culture of continuous improvement in luxury resort environments. The framework adapts the eight pillars of Total Productive Maintenance by replacing the concepts of equipment and maintenance with employees and management respectively. TPMan is underpinned by the three dimensions of service quality originally developed by Oliver and Rust in 1994. These dimensions are tailored to support staff to enhance guest experience, operational efficiency and the physical environment. Over eight years, the methodology has been successfully applied in three local and international luxury resorts.

Supervisor: Dr D Kennon Co-supervisor: Prof CSL Schutte

PIETERSE, Carla Maria (Electronic Engineering)

Antenna beam pattern modelling for sky-averaged 21 cm cosmology experiments

Detection of the sky-averaged 21 cm signal with a radiometer helps study the universe's thermal history and formation of the first stars. However, bright foregrounds complicate this measurement. Bayesian inference can be used to disentangle the signal from the foreground, but relies on accurate knowledge of the antenna power pattern. Geometric perturbations of the antenna system, such as mechanical tolerances and thermal expansion, introduce uncertainties. This study proposes a parameterised method to better account for these perturbations, improving model accuracy. It also proposes a quantitative limit for how well the antenna pattern must be modelled to make a confident detection of the cosmological signal.

Supervisor: Prof DIL de Villiers

RATSHOSHI, Brankie Karabo (Chemical Engineering)

Techno-economic and environmental assessment of polylactic acid, polybutylene succinate and polybutylene adipate-co-terephthalate biorefineries annexed to a typical South African sugar mill

Fossil-based plastic production has increased drastically over the years, which poses a threat to the environment. Fossil-based plastic leads to the depletion of natural resources, greenhouse gas emissions and an endangered ecosystem. Biobased polylactic acid (PLA), polybutylene succinate (PBS) and polybutylene adipate-co-terephthalate (PBAT) are environmentally sustainable alternatives, as they are biodegradable and can be produced from renewable biomass. This study assesses the economic and environmental viabilities of bio-based PLA, PBS and PBAT production in a biorefinery annexed to a typical South African sugar mill to identify preferred process designs that maximise financial and environmental benefits.

Supervisor: Prof JF Görgens

SAREMA, Blessed (Industrial Engineering)

Intelligent optimisation of deep drawing process parameters in the production of aluminium nonrotational monolithic components

This study involves the intelligent modelling and optimisation of the deep-drawing process parameters to produce aluminium non-rotational symmetric monolithic components that can replace polylithic components in automotive accessories manufacturing. Monolithic components improve resource efficiency, productivity and sustainability in manufacturing. The deep-drawing process is simulated using finite element analysis methods, and mathematically modelled using the Automatic-Relevance-Determination exponential and squared exponential functions of the Gaussian process models in the Model-Based Calibration Toolbox. Process optimisation is achieved by means of a multi-objective genetic algorithm. The proposed mathematical and optimisation models are validated through Finite Element Analysis, Geometric Discrepancy Evaluation and Physical Prototyping.

Supervisor: Prof S Matope

Co-supervisor: Dr A Sterzing (external)

SULON, Darren Anthony (Civil Engineering)

Heat transfer modelling for timber connections in fire considering uncertainty quantification

This study performs experimental investigations and applies uncertainty quantification to the simulation of timber connections exposed to fire. Experiments on gluelaminated timber beams in fire provide insight into thermal behaviour, allowing the development of a thermal property model for heat transfer simulations. This model is developed through efficient parameterisation and calibration via Bayesian inversion, dimensionality reduction, and surrogate modelling techniques. Validated models provide insight into conductive, convective and radiative heat transfer in timber connections, and inform potential updates to building regulations through recommendations that enable more accurate temperature calculations during fire safety design.

Supervisor: Prof NPJ de Koker Co-supervisor: Prof RS Walls

TEYMOORI, Vahid (Electrical Engineering)

Sensorless control of dual three-phase permanent magnet vernier machine for ship propulsion

This study focuses on the sensorless control of dual three-phase permanent magnet vernier machines (DTP-PMVMs) for ship propulsion. It develops advanced observers and control strategies to accurately estimate rotor position and speed. These techniques enhance system efficiency, reduce systems complexity and improve dynamic performance by ensuring fast and stable responses to load and speed variations. A stepwise approach is adopted, first applying the observer to a conventional permanent magnet synchronous machine (PMSM) before extending it to DTP-PMVMs. The findings contribute to the advancement of multiphase motor control, providing a robust and efficient solution for high-power maritime propulsion systems.

Supervisor: Prof R Wang Co-supervisor: Prof MJ Kamper

VALKENBURG, André David (Chemical Engineering)

Developing a bioprocess for the production of mannosylerythritol lipids and cellobiose lipids

This study investigates the co-production of mannosylerythritol lipids (MELs) and cellobiose lipids (CBLs) from sugars, using *Ustilago maydis* and *Sporisorium scitamineum*. A two-stage cultivation strategy is found to improve MEL and CBL production by individually improving both biomass and product formation. Sugarcane molasses is identified as a viable substrate, with *S. scitamineum* producing significantly higher CBL titres than *U. maydis* from this substrate. A trickle bed bioreactor is explored as a scalable alternative to submerged fermentation, demonstrating successful fungal growth. These findings help address the challenges in microbial glycolipid production and highlight promising strategies for the industrial production of biosurfactants from renewable feedstocks.

Supervisor: Prof RWM Pott

Co-supervisors: Prof E van Rensburg, Dr GM Teke

VAN DER WESTHUIZEN, Lodewicus (Chemical Engineering)

Techno-economic and environmental investigation of steam-exploded lignocelluloses as binder for coal-fines briquettes

Coal dependency poses significant environmental and economic challenges, with greenhouse gas emissions and waste generation driving the urgent need for sustainable alternatives. This study explores the use of steam-exploded lignocellulosic biomass as a renewable binder for coal-fines briquetting, offering a potential solution to reduce coal's environmental impact. Pilot-scale experiments optimise binder performance using various feedstocks such as sugarcane bagasse (SCB) to produce strong, water-resistant briquettes. The process also facilitates the co-production of valuable bioproducts, lowering costs and improving economic feasibility. By integrating lignocellulose-based binders into existing coal infrastructure, this approach provides a practical pathway to transition towards more sustainable energy solutions.

Supervisor: Prof JF Görgens

VAN DYK, Janke (Chemical Engineering)

Solid-state fermentation of whole sugarcane and paper sludge for first- and second-generation ethanol production

This study investigates solid-state fermentation (SStF) of paper sludge (PS) and whole sugarcane as alternatives to submerged fermentation for bioethanol production. Advantages of SStF include smaller reactor volumes and higher ethanol concentrations and yields. Ethanol concentrations in laboratory-scale experiments with PS exceed the target ethanol concentration of 40 g/L, while whole sugarcane fermentation yields results comparable to the conventional submerged process. Fermentation of both substrates is scaled up successfully to a 50 L pilot-scale reactor. Collectively, the findings demonstrate the technical feasibility of SStF for bioethanol production, and its potential application in processing other lignocellulosic and sugar-rich organic waste streams.

Supervisor: Prof E van Rensburg Co-supervisor: Prof JF Görgens

VENTER, Mariet (Electronic Engineering)

Parametric beam modelling for reflector antennas

This study enhances reflector antenna beam modelling for radio astronomy, aiming to speed up design cycles and improve radio image quality. Incorporating frequency variations in geometric perturbation analysis significantly boosts the accuracy of basis function-based beam models. Additionally, spatial interpolation of geometrical changes before electromagnetic simulations improves model precision over direct field interpolation. Finally, a novel method, using reference reflectors in the design process, is developed, which further reduces the computational costs of the design process. These findings provide efficient, accurate tools for optimising antenna design in radio astronomy applications.

Supervisor: Prof DIL de Villiers

VISSER, Emile (Electronic Engineering)

Locally adaptive Bayesian optimization using principalcomponent-aligned trust regions

Bayesian optimisation is a popular method for finding the optimum of black-box objective functions efficiently and effectively. However, Bayesian optimisation tends to experience numerical and computational issues as the method progresses, and is known to struggle with difficult functions that may be non-stationary or ill-conditioned. To address these shortcomings, this research presents the LABCAT algorithm, which combines Bayesian optimisation with classical trust-region techniques and incorporates a novel rotation and rescaling procedure based on the weighted principal components and length-scales of the observed data. Extensive testing and benchmarking demonstrate that the LABCAT algorithm outperforms several state-of-the-art Bayesian optimisation and other black-box optimisation algorithms.

Supervisor: Dr JC Schoeman Co-supervisor: Dr CE van Daalen

VOOGHT, Dominic Terence (Chemical Engineering)

Development of integrated reverse logistics networks for electronic waste and lithium-ion battery recycling – a case analysis of South Africa

South Africa faces a growing demand for lithium-ion batteries (LIBs), but lacks recycling facilities, creating an urgent need for sustainable end-of-life (EOL) LIB recycling solutions. This study assesses economic viability and environmental sustainability by determining the optimal reverse logistics network (RLN) for EOL LIB recycling. Using anyLogistix®, various hydrometallurgical processing routes and network configurations are evaluated. The optimal RLN comprises a network of collection centres, decentralised dismantling facilities, and a centralised processing plant that uses a mineral acid-based process. The findings guide strategic RLN design for integrated EOL LIB and e-waste recycling, addressing national and global recycling challenges.

Supervisor: Prof C Dorfling Co-supervisors: Profs G Akdogan, L Louw

WASWA, Lewis Sakwa (Electrical Engineering)

Conductor size selection in low voltage networks under distributed energy resource uncertainty

This study addresses the challenges of distribution network planning (DNP) amid the increasing integration of distributed energy resources (DERs). It focuses on conductor size selection under combined DER uncertainties for new electrification projects and network reinforcement of existing networks. Through a comprehensive framework, the research introduces a novel stochastic methodology that incorporates DER operational and planning uncertainties alongside an efficient analytical approach to reduce computational burdens. These methodologies are then aligned with South Africa's quality-of-supply standards, ensuring direct practical applicability. This work advances DNP for sustainable DER integration and strengthens the role of distribution networks in the energy transition.

Supervisor: Prof B Bekker Co-supervisor: Dr MJ Chihota YALA, Suzanne Akoth (Chemical Engineering)

Modelling the effects of compression of fouling layers on the filtration performance of membrane bioreactors

This study develops a predictive mathematical model for the filtration performance of a membrane bioreactor, based on the filtration and compressibility characteristics of the feed. The model is applied to the membrane filtration of both a synthetic feed, i.e. a yeast suspension, and real wastewater from a wastewater treatment works. Evaluations reveal that the model is highly accurate in predicting both the decline in flux (in constant pressure operation) and the increase in pressure (in constant flux operation). Future work will focus on applying the model to the optimisation of industrial membrane bioreactor plants.

Supervisor: Prof VL Pillay

Faculty of Engineering Fakulteit Ingenieurswese

OTHER QUALIFICATIONS | ANDER KWALIFIKASIES

Master of Engineering Science in Biomedical Engineering

Magister in Ingenieurswetenskappe in Biomediese Ingenieurswese

Blignaut, Lanique

Jacobs, Hanri Valkyrie (cum laude)

Kruger, Edwin (cum laude)

Maharaj, Tarushai

Nortje, Lené (cum laude)

O'Hare, James Michael (cum laude)

Osman, Ridwaan

Tayob, Zahra (cum laude)

Tlhapane, Bonolo

Van der Walt, Carina (cum laude)

Van Zyl, Kara Elena (cum laude)

Master of Engineering Magister in die Ingenieurswese

Abdrafiu, Idris Mayowa (Civil Engineering) (cum laude)
Agema, Johannes (Civil Engineering) (cum laude)
Albertyn, Carla (Industrial Engineering) (cum laude)
Amos, Jade Bronwyn (Chemical Engineering) (cum laude)
Anastasiou, Jordan (Chemical Engineering)
Andersen, Frederik Johannes (Industrial Engineering)

Baard, Vejonepher Dominique (Chemical Engineering) (cum laude)

Badat, Sa'Ad Mohamed (Electronic Engineering) (cum laude)

Barkhuizen, Jan-Harm (Engineering Management)
Basson, Wade Garreth (Engineering Management) (cum

Bedford, Aneeqa (Engineering Management)

Bierman, Anandi (Engineering Management) (cum laude)

Bikwa, George (Engineering Management)

Botha, Corné Herman (Engineering Management) (cum laude)

Botha, Vickus Rudolph (Industrial Engineering) (cum

Bothma, Aneshka (Electronic Engineering) (cum laude)

Brink, Adriaan Pieter (Mechatronic Engineering)

Brits, Laurence Armand (Civil Engineering)

Bronn, Karla (Mechatronic Engineering)

Bunga, Godrick Emmanuel (Chemical Engineering) (cum

Burger, Nadine (Engineering Management) (cum laude) Canterbury, Fabian Ross (Electrical Engineering) (cum laude)

Ceres, Umar (Mechanical Engineering) (cum laude)
Chawatama, Simba Freddie (Engineering Management)
(cum laude)

Chikati, Nelson (Industrial Engineering) (cum laude) Chishiba, Orleans (Civil Engineering) Cilliers, Ryan Christopher (Chemical Engineering)
Conradie, Alewyn Petrus (Industrial Engineering) (cum Igude)

Cooke, Lauren Lee (Electronic Engineering) (cum laude) Cotterrell, Ross Glenn (Civil Engineering) (cum laude)

Cronje, Tiaan (Mechanical Engineering)

Daugherty, Emma Louise (Chemical Engineering)

Davey, Richardo Lee (Electrical Engineering)

Davies, Anna Penelope (Electronic Engineering)

De Beer, Sybrandt Zander (Engineering Management)

De Freitas, Leonardo Jose (Civil Engineering)

De Greeff, Sarah-Lee (Industrial Engineering) (cum laude)

De Smidt, Jean Alexander Beytell (Industrial Engineering) (cum laude)

De Wet, Charl (Mechatronic Engineering)

Desrosiers, Isabelle Grace (Chemical Engineering)

Dippenaar, Nicolaas Johannes (Civil Engineering) (cum laude)

Dittmar, Claudia (Engineering Management)

Dladla, Keamogetswe (Industrial Engineering)

Du Plessis, Hennie (Mechanical Engineering) (cum laude) Du Plessis, Michael Jacobus (Engineering Management)

(cum laude)

Du Toit, Jan-Louis (Engineering Management) (cum laude)

Ebrahim, Nadia (Industrial Engineering) (cum laude)

Edwards, Barend Jacobus (Electronic Engineering)

Edwards, David James Erich (Electronic Engineering) (cum laude)

Erasmus, Christopher Stefan (Electronic Engineering) (cum laude)

Erasmus, Johann (Engineering Management) (cum laude)

Erasmus, Melissa (Chemical Engineering)

Essa, Muhammed (Civil Engineering) (cum laude)

Fernandes, Nicholas (Industrial Engineering)

Folscher, Alida (Electronic Engineering) (cum laude)

Fortuin, Liza (Electronic Engineering)

Fourie, Janine (Civil Engineering)

Fynn, Jason Grant (Electronic Engineering)

Gamor, Samuel (Chemical Engineering)

Gardiner, Benjamin (Mechanical Engineering) (cum laude)

Gombami, Fionah Rudo (Civil Engineering)

Hanekom, Werner (Mechatronic Engineering)

Heidbreder, Caitlin Jane (Civil Engineering)

Henri, Joshua Timothy (Chemical Engineering)

Herbst, Charles Daniel (Industrial Engineering) (cum laude)

Hermanus, Garren Ryan (Chemical Engineering) (cum laude)

Herreilers, Julian Thomas (Electronic Engineering) (cum laude)

Heunis, Johannes Jacobus (Engineering Management) (cum laude)

Hitchcock, Olivia Elinor Jane (Industrial Engineering) (cum laude)

Hollands, Jacques Riaan (Engineering Management) (cum

Hugo, Henriëtte (Engineering Management) (cum laude) Huskisson, Dominic (Industrial Engineering)

Jabaar, Thaakira (Chemical Engineering)

Jackson, Laura Abigail (Engineering Management) (cum

Jallow, Fama (Mechanical Engineering)

Jansen van Rensburg, Johannes Frederik (Industrial Engineering)

Jefferies, Devin Wayne Patrick (Electronic Engineering) (cum laude)

Johnston, Mark Dale (Electrical Engineering) (cum laude) Joseph, Akhil Jose (Mechatronic Engineering) (cum laude) Joubert, Francois Johannes (Civil Engineering) (cum laude)

Kabwe, Taonga (Chemical Engineering)

Kaluwa, Stephen Tugamena (Electrical Engineering)

Khan, Mu-Een (Mechanical Engineering)

Kholoane, Kabelo (Industrial Engineering) (cum laude)

Khosa, Matimu (Chemical Engineering)

Khupe, Coleman Given (Chemical Engineering)

Kim, Dabin (Electronic Engineering) (cum laude)

Knoblauch, Stefanus Gerhardus (Industrial Engineering) (cum laude)

Kong, Xiangyiming (Electronic Engineering)

Kotze, Andrea (Chemical Engineering)

Kozuchowski, Klaudia (Chemical Engineering)

Kruger, Gerhard Hendrik (Engineering Management)

Kunutu, Boitumelo Placid (Civil Engineering)

Kuyler, Judi (Chemical Engineering) (cum laude)

La Vita, Kirsten Carla (Engineering Management)

Louw, Morne Jaco Adrian (Engineering Management) (cum laude)

Madondile, Sakumzi (Engineering Management)

Mafela, Elelwani (Industrial Engineering)

Magosvongwe, Rachel (Engineering Management)

Makakavhule, Nduvho (Chemical Engineering)

Malatsi, Kamogelo Desire (Mechanical Engineering) (cum laude)

Mamba, Phelelani Eshmael (Chemical Engineering) Maneveld, Jason Brian (Industrial Engineering) (cum laude)

Mankayi, Nkosizanokusa Nqobile (Civil Engineering)

Maphosa, Yolanda Skhululiwe (Engineering Management)

Maree, Bernette (Electrical Engineering) (cum laude)

Maree, Hendrik (Electrical Engineering) (cum laude)

Mashila, Tlangelani (Industrial Engineering)

Mashiloane, Lerato Pamela (Civil Engineering)

Masunungure, Takudzwa Trevor (Engineering Management) (cum laude)

Masureik, Julia (Engineering Management) (cum laude)

Melville, Carolynne (Civil Engineering)

Merrick, Wesley (Civil Engineering) (cum laude)

Mhene, Tafadzwa Mthokozisi (Civil Engineering) (cum laude)

Mhlanga, Zenzile Philomena (Civil Engineering)

Mmotong, Mphallwe Howard (Industrial Engineering)

Mohammad, Asadullah (Industrial Engineering) (cum laude)

Moodley, Selena (Civil Engineering)

Moshabi, Tebatso Nthabiseng (Industrial Engineering)

Mthembu, Noluthando Bright (Industrial Engineering)

Mtyobile, Lerato Hillary (Electronic Engineering)

Mudanalwo, Nakisani Monalisa (Industrial Engineering) (cum laude)

Müller, Johannes Dawid Jordaan (Engineering Management) (cum laude)

Naidoo, Ashlin (Mechanical Engineering)

Naidoo, Tarisha (Mechanical Engineering)

Nankunda, Daphine (Civil Engineering)

Nayler, Ross William (Industrial Engineering) (cum laude)

Neethling, Christiaan Wilhelm Frederich (Industrial Engineering)

Neethling, Lize (Civil Engineering)

Ngcoko, Zamokuhle Jimmy (Chemical Engineering)

Nienaber, Linda (Civil Engineering)

Nkwe, Ezekiel (Industrial Engineering)

Nongogo, Innocent Sinethemba (Electrical Engineering)

Nxitywa, Abulele (Industrial Engineering)

Nyamutora, Tinashe (Engineering Management)

Olivier, Jacobus Frederik (Chemical Engineering)

Oosthuizen, Theunis (Electrical Engineering) (cum laude)

Palmi, Angelique Fatuma (Mechanical Engineering)

Patterson, Julian (Engineering Management) (cum laude)

Peens, Gert Jacobus (Industrial Engineering) (cum laude)

Phetla, Siphiwe Hosea (Electrical Engineering) (cum

Pillay, Kiravani (Engineering Management)

Poonah, Brandon (Electrical Engineering) (cum laude)

Pretorious, Joshua Chance (Industrial Engineering) (cum laude)

Raats, Daniel James (Mechanical Engineering)

Ralph, James Stuart (Mechanical Engineering) (cum

Ramodike, Masilo (Civil Engineering)

Ramoroka, Matome Molefe (Engineering Management) Ratombo, Tshifhiwa Aubrey (Engineering Management)

Rautenbach, Daniel (Industrial Engineering) (cum laude)

Roberts, Jone (Mechanical Engineering) (cum laude)

Roos, Vincent (Chemical Engineering)

Roux, Jacobus Izak (Civil Engineering)

Rubidge, John Walter (Engineering Management)

Saunders, Adrian Jody (Engineering Management)

Savides, Daniel (Engineering Management)

Sayed, Atiyyah (Industrial Engineering)

Schmidt, Felix (Engineering Management) (cum laude)

Schneider, Matthew Dylan (Mechanical Engineering) (cum laude)

Schreiber, Leon Amos (Mechatronic Engineering) (cum laude)

Schroth, Timo Friedrich (Engineering Management) (cum laude)

Schuster, Nikola (Electronic Engineering) (cum laude)

Sema, Mahlatse Clement (Industrial Engineering)

Sewparsad, Kiran (Engineering Management)

Sikhipha, Rendani Lydia (Engineering Management)

Sikongo, Petrus (Industrial Engineering)

Sithole, Zweli (Industrial Engineering)

Skosana, Thabo Shadrack (Civil Engineering)

Smal, Nadine Juanita (Industrial Engineering) (cum laude)

Smit, Janré (Industrial Engineering)

Smit, Petrus Jurgens (Electronic Engineering) (cum laude)

Sobekwa, Vuyolwethu (Civil Engineering)

Stanger, Carla (Industrial Engineering) Steyn, Lizé (Electronic Engineering)

Strydom, Quintin Alan (Electronic Engineering)

Swanepoel, Joseph Lodewyk (Engineering Management)

Swart, Louzanne (Industrial Engineering)

Terblanche, Jacques (Mechanical Engineering) (cum laude)

Thomas, Kelsey Jayde (Electronic Engineering)

Thysse, Tamryn (Civil Engineering)

Truter, Hugo Jean (Engineering Management) (cum laude)

Tshuma, Phakamani (Mechanical Engineering)

Twilley, Rowan Craig Emslie (Electronic Engineering)

Van Aarde, Paulemari Emily (Electrical Engineering)

Van den Heever, Maymarie (Industrial Engineering) *(cum laude)*

Van der Merwe, Ernest Leonard (Engineering Management) (cum laude)

Van der Merwe, Jurgen (Electronic Engineering)

Van der Merwe, Schalk Willem (Electrical Engineering) (cum laude)

Van der Spuy, Sybrand Johannes (Mechanical

Engineering) (cum laude)

Van Deventer, Dewald (Mechatronic Engineering)

Van Heerden, Gerhardus Coenrad (Engineering

Management) (cum laude)

Van Schalkwyk, Adriaan Pieter (Industrial Engineering) (cum laude)

Van Stavel, Erin-Leigh (Industrial Engineering) (cum laude) Van Tonder, Johann Ruben (Electronic Engineering) (cum laude)

Van Wyk, Jamie Kate Danielle (Chemical Engineering) (cum laude)

Van Zyl, Shane David (Chemical Engineering)

Veerasamy, Kaelan (Engineering Management) (cum laude)

Venter, Karen Hesse (Engineering Management) (cum laude)

Visser, Nicolaas Floris (Electronic Engineering) (cum

Ward, Valencia Bertha (Engineering Management) (cum

Weaver, Keegan (Mechatronic Engineering)

Whitehead, Marisse Anchen (Engineering Management) (cum laude)

Wicomb, Lindsay Paul (Engineering Management) Wiegand, Anchen Sara (Engineering Management)

Woods, Joshua Anderton (Electrical Engineering) Ximba, Londeka (Civil Engineering)

Yankanna, Kirolan (Civil Engineering)

Zata, Masiiwa Madhamu (Industrial Engineering) *(cum laude)*

Postgraduate Diploma in Engineering Nagraadse Diploma in die Ingenieurswese

Bambalaza, Nokukhanya (cum laude)

De Kock, Savanha

Ledwaba, Kwetsimani Fortunate

Malaba, Lomania

Masakona, Neani Eullenda Naidoo, Lerusha *(cum laude)*

Ncubuka. Rholane

Ramoroka, Venetia Kwena Ramosoeu, Relebohile

Shoowa, Ruusa

Zungu, Mpilonhle Mkhonzeni

Bachelor of Engineering Baccalaureus in die Ingenieurswese

Abrar, Haris (Mechatronics)

Afonso, Zargo (Mechanical)

Alawie, Taariq (Mechanical)

Bertschinger, Michael Waid (Mechanical)

Brandt, Sean (Mechatronics)

Brewis, Luc (Mechatronics)

Burger, Schalk Downing (Industrial)

Chetty, Nicole (Civil)

Clutters, Camryn Dale (Chemical)

Cupp, Ameena (Chemical)

Damant, Henry Peter (Industrial)

Davhana, Khwathani (Mechanical)

Du Toit, Philippus Petrus (Civil)

Duma, S'Thabile Xolile (Industrial)

Engelbrecht, Mekyla Monique (Electrical and Electronic)

Faesen, Sean (Industrial)

Ferreira, Ilse (Civil)

Finn, Richard Neill (Electrical and Electronic)

Fluke, Matthew (Mechanical) Gambarana, Matthew (Industrial)

Gerber, Georgie Francis (Industrial) Grenfell, Stuart Morgan (Industrial)

Hallett, Jemma (Mechanical)

Horner, Michael Craig (Mechanical)

Hugo, Jake (Electrical and Electronic)

Igwe, Priyanka Onyinye (Industrial Engineering)

Jandrell, Neill (Mechatronics)

Jansen, Rhys Gwaredd (Mechanical)

Jiri, Takudzwa Michael (Electrical and Electronic)

Jongebloed, Tyler (Mechanical)

Joubert, Mickail Luan (Industrial)

Joubert, Rene (Chemical)

Kekana, Sebo Tlotlo (Mechatronics)

Kock, Antonie Francois (Civil)

Krog, Liam Peter (Mechanical)

Kyagulanyi, Christine Nabanja (Industrial)

Laing, Hugo Johannes (Industrial)

Liebenberg, I-ben Mangaliso (Electrical and Electronic)

Loots, Tinus (Civil)

Louw, Dirk Jacobus (Civil)

Maboee, Mpho Keabetswe (Industrial)

Mahlakoane, Khazamola Rowdly (Industrial)

Masaire, Tanyaradzwa Michelle (Mechanical)

Moggee, Grethe (Industrial)

Mogodi, Desmond Mashile (Electrical and Electronic)

Molise, Lerato Paulina (Industrial) Moodley, Shivani (Mechanical)

Mukhithi, Tendani Shane (Electrical and Electronic)

Muller, Errol Philip Albert

Obermeyer, Daniel Jacobus (Industrial)

Olivier, Tenique (Mechatronics) Petersen, Chad Ralton (Civil)

Petika, Alexander Hofmeyr (Electrical and Electronic)

(cum laude)

Potgieter, Marcus (Industrial)

Potgieter, Ruan (Electrical and Electronic)

Pretorius, Wiehann (Industrial) Qubeka, Lutho Aubrey (Civil)

Sangweni, Kananelo Lebohang (Mechanical)

Schneider, Franco (Mechanical)

Shange, Bonginkosi (Civil)

Sirothia, Astha (Electrical and Electronic)

Smit, Cornelis Andries (Industrial)

Snyman, Barend Jacobus (Civil)

Swanevelder, Carl Johan (Mechatronics)

Swart, Craig William Thomas (Civil)

Swart, Luan (Mechanical)

Tshilumbu, Nsenda (Electrical and Electronic)

Valaitham, Rahul Savar Daya (Mechanical)

Van Heerden, Justin Carl (Mechatronics)

Van Sittert, Fritz Peter (Mechatronics)

Vermaak, Jason Vincent (Mechatronics)

Wait, Louise Madeleine (Industrial)

Wilcox, Callum Meekin (Industrial)

Winter, Tessa Jane (Mechanical)

forward together sonke siya phambili saam vorentoe

FACULTIES

Education • Theology

27 March 2025 | 17:00

FAKULTEITE

Opvoedkunde \cdot Teologie

27 Maart 2025 | 17:00

Programme

Please stand 1. Entrance of academic procession into the hall.

Please stand 2. Playing of the National Anthem.

Please sit 3. Congregation formally constituted by the Vice-Chancellor.

4. Welcome by the Vice-Chancellor.

5. Presentation of candidates receiving qualifications by the dean of the faculty and conferment of qualifications by the Vice-Chancellor.

6. Closing by the Vice-Chancellor.

Please stand 7. The academic procession leaves the stage.

Program

Staan asseblief 1. Akademiese prosessie kom die saal binne.

Staan asseblief 2. Speel van die Nasionale volkslied.

Sit asseblief 3. Formele konstituering deur die Visekanselier.

4. Verwelkoming deur die Visekanselier.

5. Voorstelling van kandidate wat kwalifikasies ontvang deur die dekaan van die fakulteit en toekenning van kwalifikasies deur die Visekanselier.

6. Sluiting deur die Visekanselier.

Staan asseblief 7. Akademiese prosessie verlaat die verhoog.

Faculty of Education Fakulteit Opvoedkunde

DOCTORAL QUALIFICATIONS | DOKTORALE KWALIFIKASIES

DOCTOR OF PHILOSOPHY DOKTOR IN DIE WYSBEGEERTE

FLEISCHMANN, Elizabeth Martha (Kurrikulumstudie)

Vakgerigte geletterdheid in die onderrig van die skoolvak Wiskundige Geletterdheid in die VOO-fase: 'n Etnografiese ondersoek

Hierdie studie ondersoek die belang van vakgerigte geletterdheid in Wiskundige Geletterdheid en beklemtoon die gebrek aan riglyne vir die onderrig van vakgerigte geletterdheid in die KABV-dokument. Leerders moet die unieke geletterdheidsvereistes van Wiskundige Geletterdheid bemeester, wat dikwels lewenswerklike scenario's in gevarieerde teksvorm behels. Die navorsing gebruik gefokusde etnografie as strategie om die metakognitiewe prosesse van Wiskundige Geletterdheid-kenners te bestudeer, en toon dat daar weinig bewustheid van die leesbegripproses bestaan. Riglyne vir die integrasie van vakgerigte geletterdheid in onderrig sluit in beleidsbewustheid, kennisskepping, onderwyseropleiding, onderrig deur eksplisiete modellering, en refleksie.

Promotor: Prof J Anker

Medepromotor: Prof MF Gierdien

NAMUPALA, Martha (Curriculum Studies)

Implementation of the Namibia Senior Secondary Certificate Ordinary Level Curriculum in Ohangwena region: Lived Experiences of English Second Language Teachers

This study explores English Second Language teachers' experiences in implementing the reformed Senior Secondary Certificate curriculum in Namibia's Ohangwena region, using Pinar's Currere and Aoki's Multiplicity Model. While some teachers' experiences are found to be positive, challenges do hinder curriculum implementation. Recommendations include a bottom-up approach that incorporates teachers' voices, as well as further research on socioeconomic factors to align policy with classroom realities.

Supervisor: Dr ML Botha

ROSSOUW, Jane Patricia (Educational Psychology)

Conversations about sexuality in LGBTQ+-headed home environments

This study explores how LGBTQ+ parents in South Africa communicate about sexuality with their children. Using a qualitative approach, it analyses conversations in six LGBTQ+headed families, revealing five key themes: normalised sexuality conversations, the impact of personal histories, the influence of heteronormativity, the navigation of LGBTQ+identities, and family communication dynamics. The findings highlight the challenges that LGBTQ+ parents face in discussing diverse sexualities within a predominantly heteronormative society, emphasising the importance of open dialogue and the need for supportive resources to enhance sexuality conversations at home.

Supervisor: Prof A Brown Co-supervisor: Dr C Jacobs

WAIT, Tania Hanlie (Curriculum Studies)

Exploring relations between self-directed learning and epistemological beliefs of Mathematics Education students

This interpretative mixed-methods study examines the relationship between the personal epistemologies (PEs) and self-directedness in learning (SDL) of 100 primary Mathematics Education students at a South African university. Sophisticated PEs relate to high levels of SDL and strong academic performance. Descriptive analysis of questionnaire data is triangulated by classroom observations of teaching. Results suggest differences between reported and enacted beliefs. Students who enact sophisticated PEs in teaching tend to encourage their learners to direct their own learning. Students who are naïve in their enactment of epistemological beliefs tend not to encourage learners to self-direct learning.

Supervisor: Dr CE Lampen

Faculty of Education Fakulteit Opvoedkunde

OTHER QUALIFICATIONS | ANDER KWALIFIKASIES

Master of Philosophy Magister in die Wysbegeerte

Crafford, Gerrit Jacobus (Higher Education) (cum laude) Louw, Louri (Higher Education Studies) (cum laude)

Master of Education Magister in die Opvoedkunde

Benecke, Elsje Elizabeth (Educational Psychology) (cum

During, Genevieve Vivian (Educational Psychology) (cum laude)

Eagle, Caitlin (Educational Psychology) (cum laude) Jagles, Colette Sellen (Educational Psychology) Van der Linde, Carla Joy (Educational Psychology)

Bosch, Andrea (Education Policy Studies) Daniels, Chanel (Educational Support)

De Bruyn, Nikki (Curriculum Studies)

De Vries, Lucrichia (Curriculum Studies)

Mayers, Paul (Education Policy Studies) (cum laude) Mcobothi, Siboniso Talent (Curriculum Studies)

Mtshali, Philile (Curriculum Studies)

Mvukwe, Powerman (Educational Support)

Schreuder, Lana Hilda (Curriculum Studies) *(cum laude)* Tuyoleni, Ruth Kambashele (Education Policy Studies)

Bachelor of Education Honours (Foundation Phase Teaching)

Honneurs-Baccalaureus in die Opvoedkunde (Grondslagfase-onderwys)

Matini, Inathi (Foundation Phase Education) Nongqina, Nonceba (Foundation Phase Education)

Bachelor of Education Honours (Curriculum Inquiry) Honneurs-Baccalaureus in die Opvoedkunde (Kurrikulumondersoek)

Hutchison, Jason Peter (cum laude)

Bachelor of Education Honours (Language Education) Honneurs-Baccalaureus in die Opvoedkunde (Taalonderwys)

Bdair, Fatima (cum laude)
Endjila, Hileni Omagano Ndatitangi
Hlongwane, Anelisa Bubele Nselelo
Laubscher, Chloe Mae (cum laude)
Markgraaff, Keegan Chad
Mouton, Saretta Sonya
Silo, Athenkosi
Vivier, Margaret Amy (cum laude)

Wainwright, Melissa Nicole *(cum laude)* Wilson, Ainsley *(cum laude)* Windvogel, Michaela

Postgraduate Certificate in Education in Further Education and Teaching Training Nagraadse Onderwyssertifikaat in Verdereonderwysen Onderrigopleiding

Hadebe, Luyanda Noluthando (cum laude)

Hoogbaard, Elske

Lishi, Lutendo

Madlopa, Ntokozo Witness

Marsh, Yaseen

Matsaba, Thabo Johnsen

Mbanyane, Kholiwe Synthia (cum laude)

Mqina, Liyabona (cum laude)

Ntshatsha, Zizipo Samanthur (cum laude)

Ramangoele, Tlaleho Vlok, Lisa *(cum laude)*

Bachelor of Education (Intermediate Phase Teaching) Baccalaureus in die Opvoedkunde (Intermediêrefaseonderwys)

Du Piesanie, Elze Mare

Advanced Diploma in Education in Senior Phase Mathematics Teaching Gevorderde Diploma in Onderwys in Senior Fase Wiskunde-onderwys

Mkhabela, Sifiso Ndhlovu, Omphemetse Pontsho *(cum laude)*

Advanced Diploma in Education in Intermediate Phase Mathematics Teaching Gevorderde Diploma in Onderwys in Intermediêre Fase Wiskunde-Onderwys

Motolaneng, Kediheng Seganeno, Mpho

Faculty of Theology Fakulteit Teologie

DOCTORAL QUALIFICATIONS | DOKTORALE KWALIFIKASIES

DOCTOR OF PHILOSOPHY DOKTOR IN DIE WYSBEGEERTE

BROWN, Joel Stephen (New Testament)

Conceptualizing headship and embodiment in Ephesians: A cognitive-linguistic approach to contexts, construal, and constructed meaning

Conceptual Metaphor and Integration Theories have revitalised research on metaphor construction, crucial for creativity and conceptualisation, especially in reading Scriptures. Cognitive-linguistic analyses of embodiment and headship metaphors in Ephesians reveal the universal church as a body, with the glorified Christ as its head, constructing the teleological and ontological natures of a mediative Christ rooted in cultural experiences of beneficent rule, honour and body. Blending divine headship and embodiment highlights the human head's significance, spirituality, elevation, and social identity, and the body's cognitive sense of self, spiritual realities, and epistemics of embodied cognition. A hermeneutic of realisation proposes that our bodies are a creative gift, not a prison.

Supervisor: Dr P Nagel

DAVIS, Sheurl Valene (Old Testament)

Interrogating female leadership: Miriam (Numbers 12), Jael (Judges 4) and Jezebel (1 Kings 16) in conversation with Winnie Madikizela-Mandela in the film *Long Walk to Freedom*

This study examines the portrayal of women in leadership in the Hebrew Bible and contemporary society. Employing a postcolonial feminist framework, the study brings into conversation the portrayal of Winnie Madikizela-Mandela in the film Long Walk to Freedom (2013) with Miriam (Numbers 12), Jael (Judges 4) and Jezebel (1 Kings 16). It asserts that women, as products of patriarchal and imperial contexts, have not always been recognised for their pivotal leadership roles. Hence the study invites ongoing reflection on the construction and reception of women leadership, both in (biblical) literature and in contemporary society, including the church and higher education.

Supervisor: Prof LJM Claassens

KOO, Bonsam (Old Testament)

A bridge between past and present: the bidirectional function of the Chronicler's genealogies (1 Chronicles 1-9) in the Late Persian Period Israel

This study highlights the genealogies in 1 Chronicles 1–9 as a bridge between past and present, and between Chronicles and other biblical texts. Often overlooked, these genealogies serve as theological and literary tools rather than mere historical records. Using literary and rhetorical analysis, the study reveals the genealogies' role in shaping Israel's identity through themes such as divine selection, covenant, and retribution. They emphasise 'All Israel', the Davidic dynasty, and temple-centred worship. The study affirms Chronicles' literary significance, showing that its genealogies contribute to Old Testament unity and offer fresh insights into its literary development beyond mere historical repetition.

Supervisor: Prof LC Jonker

LOOTS, Werner (Practical Theology)

The 'presencing of God' in human frailty: towards a *praxis pietatis* of imperfection in the quest for spiritual wholeness

This study examines the ministerial wellbeing of pastors in evangelical denominations in South Africa, situated within the post-apartheid context. Employing a theoretical and qualitative empirical approach, the study highlights the complex interplay between spiritual resilience, emotional health, and societal factors that affect pastors' wellbeing. It performs an interdisciplinary analysis, integrating theological, psychological and sociocultural perspectives. The study advocates for a practical, holistic and multifaceted pastoral approach that transforms pastoral training and denominational structures to prioritise ministerial wellbeing. Recommendations are provided for evangelical denominations, practitioners, and the field of practical theology in South Africa.

Supervisor: Prof CH Thesnaar

MATSAPA, Caroline (New Testament)

A Reception-Critical Reading of Mark 2:1-12 in the Context of the Apostolic Faith Mission in Zimbabwe's 'Disabled' Theology

This study critically examines how disability, healing and miracles are interpreted in Zimbabwean Pentecostal churches, particularly in the Apostolic Faith Mission (AFM). Using a reception-critical exegetical approach, it reinterprets Mark 2:1–12 against 1st-century Roman Palestinian perceptions of disability, highlighting a disconnect between the Gospel's inclusive ethos and contemporary miracle-healing theologies. The study reveals that systemic and doctrinal challenges in Zimbabwe marginalise individuals with disabilities. It advocates for theological and structural reforms in the AFM and contributes to disability theology by calling for a paradigm shift towards a more holistic, compassionate engagement with disability in Pentecostal churches.

Supervisor: Dr P Nagel

MONOAMETSI, Kamogelo (Missiology)

The effects of tribalism and ethnicity on the raising of missional Christian communities in the Methodist Church of Southern Africa: a case study of the Durban Central and Pretoria Central metropoles

This study examines how tribal and ethnic dynamics cause exclusion and inequality in the leadership, worship, and ministry practices of the Methodist Church of Southern Africa (MCSA). Utilising a missional and Wesleyan theological framework, the research focuses on two congregations in Pretoria Central and Durban Central metropoles. Through qualitative data from electronic questionnaires, key themes such as exclusionary practices, language barriers and ethnic domination in leadership are identified. The study proposes that transforming traditional systems can promote multilingual, intercultural, and multi-ethnic congregations, ultimately fostering unity, equality and reconciliation in the MCSA.

Supervisor: Prof P White

MOURRIES, Eben Jacques Philip (Practical Theology)

Perceptions of the role of Christian spiritual care in the rehabilitation of incarcerated youth in a correctional service environment: An overview of Hawequa Correctional Centre

This study investigates the perceptions of the role of Christian spiritual care in the rehabilitation of incarcerated youth at Hawequa Correctional Centre, examining how spiritual care contributes to identity formation, moral development and behavioural change in a South African correctional setting. Christian spiritual care is perceived as a vital aspect of rehabilitation, fostering moral regeneration, self-reflection and a sense of identity among incarcerated youth. The study concludes that spiritual care is essential for holistic rehabilitation towards a transformative approach that meets incarcerated youth's spiritual, moral and emotional needs.

Supervisor: Prof SM Weber

NELSON, Jesse Lawrence (Practical Theology)

A Grounded Theory analysis of three African American expository preachers of the Baptist tradition in the twenty-first century

Using grounded theory methodology, this study analyses the expository sermons of three African American Baptist preachers to identify the expository features and develop a theory for homiletics curricula. The grounded theory is delineated in four statements: God provides followers of Christ to address Black suffering and be the catalyst for hope, justice and transformation; God provides hope for African Americans as they endure hardship in America; God provides justice for African Americans as they experience injustice through inequalities and systemic racism in America; and God provides transformation for African Americans through the ministry of the Black church to its community.

Supervisor: Prof CJ Wepener Co-supervisor: Prof LJM Claassens

RUHAMA, Denis Onzima (Practical Theology)

Exploring holistic transformation theology in the Anglican Church of Uganda: A case of three dioceses

This study examines the notion of holistic transformation theology (HTT) as an important theme in congregational ministry praxis. As a Christian framework, HTT upholds human transformation, without separating the human and spiritual needs of the community. In practice, HTT underscores evangelism, responding to immediate human needs and nurturing the sociopolitical transformation of society. The study explores HTT in the Anglican Church of Uganda, and concludes that congregations still largely focus on people's spiritual needs, with less involvement with regard to issues of socioeconomic transformation. The research offers recommendations as to how dioceses, congregations and theological institutions could promote holistic transformation.

Supervisor: Prof N Bowers Du Toit

Faculty of Theology Fakulteit Teologie

OTHER QUALIFICATIONS | ANDER KWALIFIKASIES

Master of Theology Magister in die Teologie

Arendse, Madre (Old Testament)

Arrey, George (Practical Theology: Clinical Pastoral Care) *(cum laude)*

Byne-Ross, Kendall Adelaide (Practical Theology: Clinical Pastoral Care) *(cum laude)*

Coetzer, Jan Hendrik (Old Testament) (cum laude)

Du Plessis, Petrus Johannes (Systematic Theology) *(cum laude)*

Evans, Anthony Steven (Systematic Theology) (cum laude) Fredericks, Glenda leona (Practical Theology: Clinical Pastoral Care)

Gordon, Adrian Hilton (Practical Theology: Ministry Practice)

Hutten, Kara (Old Testament)

Kekana, Mokgethwa Boipelo Atlegang (Practical Theology) (cum laude)

Kunene, Patrik Lucky (Practical Theology)

Lee, Joungyoung (Missiology) (cum laude)

Limana, Xoliswa Pretty (Practical Theology: Ministry Practice)

Moll, Mignon Jorge (Practical Theology) (cum laude)

Molo, David Pogiso (Practical Theology)

Ncobeni, Sanele Howard (Practical Theology)

Ntshongwana, Msawenkosi (Old Testament)

Shilaluke, Given (Systematic Theology)

Sonti, Nyameka Patience Phumeza (Practical Theology: Youth Ministry)

Streicher, Pieter Emilius (Systematic Theology) *(cum laude)*

Postgraduate Diploma in Theology Nagraadse Diploma in Teologie

Ahn, Dong Ju

Christoffels, John David

Fletcher, Aidan Lucian

Huisamen, Angel Berenice

Kestoor, Gerald

Kruger, Madelie (cum laude)

Lambert, Peter Bernard

Maarman, Gerald Jerome

Maginindane, Abongile Dorothy

Marais, Bianca

Masondo, Dennis Sipho

Mbili, Simamkele

Mhlanga, Willingmore (cum laude)

Mlobeli, Regina

Mokoena, Sanele

Palihawadana, Rajive Viraj

Petoors, Carol

Sangqu, Zamile Zane

Smith, Hilton

Steyn, Cecile Christine

Truter, Petrus Jacobus

Tyala, Mzomhle Donges

Van der Hoven, Gavin Clint

Bachelor of Theology Baccalaureus in die Teologie

Boer, Deone Caylee (cum laude)

Ganjana, Wilton

Jarrett, Robyn Lee Norma

Julies, Edlynne Rozeanne

Julies, Edwina

Makwenkwe, Anesipho

Mbontsi, Anele Odwa

Paterson, Scott Matthew

Rhodes, Jeandre Kurt

September, Michail Robert

Smith, Benjamin David

Bachelor of Divinity Baccalaureus Divinitatis

Du Plessis, Dehan

National anthem

Nasionale volkslied

Nkosi Sikelel' iAfrika Maluphakanyisw' uphondo lwayo, Yizwa imithandazo yethu, Nkosi sikelela, thina lusapho lwayo

Morena boloka setjhaba sa heso, O fedise dintwa le matshwenyeho, O se boloke, O se boloke setjhaba sa heso, Setjhaba sa South Afrika - South Afrika.

> Uit die blou van onse hemel, Uit die diepte van ons see, Oor ons ewige gebergtes, Waar die kranse antwoord gee,

Sounds the call to come together, And united we shall stand, Let us live and strive for freedom, In South Africa our land.



forward together sonke siya phambili saam vorentoe

Engage with us · Raak betrokke

Stellenbosch University Alumni

Graduating from university is a big step in your life's journey. Once you have obtained your degree, you form part of the alumni community and Stellenbosch University remains your intellectual home. The Alumni Relations Office believes the success of a university depends greatly on the participation of its alumni, therefore we strive to keep you connected to your alma mater long after the euphoria of obtaining your qualification/s has died down.

Om van 'n universiteit te gradueer is 'n groot stap in enigeen se lewensreis. Sodra jy jou graad verwerf het, vorm jy deel van die alumni-gemeenskap van jou universiteit en bly die Universiteit Stellenbosch jou intellektuele tuiste. Die Alumni-kantoor streef daarna om alumni met hul almal mater in verbinding te hou nog lank nadat die euforie van graadvang verby is.

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