



Beste Matie-graduandus

Hartlik geluk met die kwalifikasie wat jy vandag verwerf. Ons is trots op jou!

Jy is deel van 'n uitgelese groep, want vanjaar vind die eerste graadplegtighede van ons tweede eeu as universiteit plaas. Dit was ons Eeufeesjaar in 2018, en ons het ook 'n nuwe visie en strategiese raamwerk aanvaar waarmee ons nou die toekoms vol vertroue tegemoet gaan.

Die Universiteit Stellenbosch (US) streef daarna om Afrika se voorste navorsingsintensiewe universiteit te wees wat wêreldwyd as uitnemend, inklusief en innoverend erken word. Ons is ook daartoe verbind om kennis tot diens van die samelewing te bevorder. Dit is veral met laasgenoemde doelwit waarmee jy ons kan help namate jy nou die beroepslewe betree.

Jou tyd by Maties het jou voorberei om leiding te neem en uit te blink in 'n diverse wêreld, danksy 'n omgewing waarbinne jy 'n transformerende studente-ervaring kon hê. Mag jy wat jy hier geleer het, met vrug toepas en mag die US se waardes – uitnemendheid, deernis, billikheid, respek en verantwoordbaarheid – jou rigsgoer bly.

Die US sal altyd jou akademiese tuiste wees. Besoek gerus ons opwindende nuwe alumni-platform, www.matiesconnect.com. Daar kan jy kontak met jou universiteitsvriende behou, werksaanbiedinge sien, asook mentors en netwerkgeleenthede vind – alles op een plek. Studies dui daarop dat betrokkenheid by sterk alumni-netwerke vrugte afwerp. Bly deel van die Matie-familie om jou loopbaan te bevorder.

Ons beste wense vergesel jou!

Prof Wim de Villiers
Rector en Visekanselier

Dear Matie Graduate

We warmly congratulate you on the qualification that you will be receiving today. We are proud of you!

You are part of a very special group, as this year's graduation ceremonies are the first to be held in our second century as a university. We commemorated our Centenary in 2018 and in the same year, we adopted our new strategic framework, enabling us to enter the future with confidence.

Stellenbosch University (SU) aims to be Africa's leading research-intensive university, globally recognised as excellent, inclusive and innovative. We are also committed to advance knowledge in service of society. As you set out on your career path, we call on you to assist us with this latter part of our vision.

Your time at Maties has prepared you to lead and excel in a diverse world thanks to an environment in which you could enjoy a transformative student experience. May you succeed in applying what you have learnt here successfully and may the values of SU – excellence, compassion, equity, respect and accountability – continue to guide you.

SU will always be your academic home. Visit our exciting new alumni platform, www.matiesconnect.com, to stay in touch with your university friends, and find the latest job postings, mentors and networking opportunities – all in one place. Studies have shown that involvement in strong alumni networks pays dividends, so remain part of the Matie family to advance your career.

Our best wishes accompany you!

Prof Wim de Villiers
Rector and Vice-Chancellor

Ophumelele Ematie Othandekayo

Sithi huntshu kuwe khwalifikeshini oza kuyifumana namhlanje. Siyazidla ngawe!

Uyinxalenye yeqela elikhethekileyo, njengoko imisitho yabaphumeleleyo yalo nyaka iyeyokuqala ukubanjwa kwinkulungwane yethu yesibini njengeyunivesithi. Siye sabhiyozela iMinyaka Elikhulu sikho ngo-2018 yaye kwangaloo nyaka, siye samkela isicwangciso-qhinga esitsha, nto leyo esincede ukuba singene kwikamva ngokuzithemba.

IYunivesithi yaseStellenbosch (SU) izimisele ukuba yiyunivesithi etshotsh' entla kwezophando olunzulu eAfrika, igqalwa ehlabathini lonke njengephum' izandla, iquka wonke umntu yaye inobuchule. Kanti sizimisele ukuqhubela phambili ulwazi ekunikeni uluntu iinkonzo. Njengoko uza kuqalisa umsebenzi wakho, siyakubongoza ukuba usincedise kulo mbono esigqiba kuwuchaza.

Ixesha obuseMaties ngalo liye lakulungiselela ukukhokela uze uphale phambili kwihlabathi elinabantu abahlukeneyo ngenxa yemo okwazileyo ukunambitha kuyo imo yokuba ngumfundi okwaziyo ukutshintsha izinto. Ngamana ungaphumelela ekusebenziseni izinto oye wazifunda apha yaye ngamana iziseko zaseSU – ukugqwesa, uvelwano, ukulingana, intlonelo nokunikela ingxelo – ungaqhubeka ukhokelwa zizo.

I-SU iya kuqhubeka ilikhaya lakho lemfundo. Tyelela eli qonga lethu elitsha nelibangela umdla lwabo babesakufunda apha, www.matiesconnect.com, ukuze uhlale unxulumana nabahlobo bakho baseyunivesithi, yaye fumana izithuba zemisebenzi ezixhonywa mvanje, abacebisi kwakunye namathuba okudibana nabanye abantu – zonke ezo zinto zikwindawo enye. Uphononongo luye lwabonisa ukuba ukudibana nabanye ababesakufunda apha kuba neziphumo ezihle, ngoko hlala uyinxalenye yentsapho yaseMatie ukuze ukhulise amathuba akho omsebenzi.

Sikunqwenelela eyona minqweno mihle!

Njing Wim de Villiers
INqununu noSekela-Tshansila



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 navorsingsintensiewe 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.

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.

Umbonoweth ka2040

IYunivesithi yaseStellenbosch iya kuba yiyunivesithi egxininise kuphando nekhokeleyo eAfrika, neyamkelwa kwihlabathi lonke njenge-gqwesileyo, equkayo neyenza inguqulelo, nalapho siqhubela phambili ulwazi sikhonza uluntu.

Ubizo Lwethu

IYunivesithi yaseStellenbosch yiyunivesithi egxininise kuphando nalapho sitsala abafundi abagqwesileyo, siqesha abasebenzi abanesiphiwo kwaye sibonelela nemeko ekwinqanaba lehlabathi; indawo eqhagamshelene nehlabathi, ngelixa ichumisa kwaye iguqula uluntu lwengingqi, lwelizwekazi nolwehlabathi.

Kanselier | Chancellor

Dr JP Rupert, DCom hc (Stell), DCom hc (NMMU)

Rektor en Visekanselier | Rector and Vice-Chancellor

Prof WJS de Villiers, MB, ChB, MMed (Int), FCP (SA), DPhil, MHCM

Voorsitter van die Raad | Chairperson of Council

Mr GM Steyn, BA, LLB

Uitvoerende Bedryfshoof | Chief Operating Officer

Prof SA du Plessis, BComHons, MPhil, PhD

Viserektor (Sosiale Impak, Transformasie en Personeel)

Vice-Rector (Social Impact, Transformation and Personnel)

Prof NN Koopman, BA, MTh, DTh

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

Prof A Schoonwinkel, PrEng, MEng, MBA, PhD

Viserektor (Navorsing, Innovasie en Nagraadse Studies)

Vice-Rector (Research, Innovation and Postgraduate Studies)

Prof TE Cloete, MSc, DSc

Viserektor (Strategie en Internasionalisering) | Vice-Rector (Strategy and Internationalisation)

Prof HC Klopper, BCur, MCur, PhD, MBA, FAAN, MASSAf

Registrateur | Registrar

Dr P Retief, MA, DLitt

Dekane | Deans

AgriWetenskappe | AgriSciences

Prof D Brink, BScHons, MScAgric, PhD

Ekonomiese en Bestuurswetenskappe | Economic and Management Sciences

Prof I Woolard, BSc, BAHons, PhD

Geneeskunde en Gesondheidswetenskappe | Medicine and Health Sciences

Prof JA Volmink, BSc, MB, ChB, DCH (SA), MPH, DPhil, MASSAf

Ingenieurswese | Engineering

Prof JL van Niekerk, MEng, PhD, EMBA

Krygskunde | Military Science

Prof MS Tshehla, MSc, PhD

Lettere en Sosiale Wetenskappe | Arts and Social Sciences

Prof AJ Leysens, MA, DPhil

Natuurwetenskappe | Science

Prof L Warnich, MSc, PhD

Opvoedkunde | Education

Prof MR Madiba, DLitt et Phil

Regsgeleerdheid | Law

Prof N Smit, BLC, LLB, LLD

Teologie | Theology

Prof RW Nel, BA, BTh, MTh, DTh

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.

Daar is vele maniere om in kontak te bly.

Tuiskoms-en-familienaweek

Die Universiteit se Tuiskoms-en-Familienaweek vir alumni vind elke jaar in Maart op die Stellenbosch-kampus plaas. Inligting is beskikbaar by www.matiesalumni.com.

Sluit aan by Maties connect

Ons www.matiesconnect.com platform sal jou help om jou professionele netwerk uit te brei, 'n mentor te vind, alumni te bereik, en op hoogte te bly van gebeure by jou alma mater.

Wees deel van 'n Alumni-hub

Die Stellenbosch Alumni-betrekkinge-span stel plaaslike en internasionale alumni-nawe (oftewel hubs) saam om die skakeling tussen alumni onderling te verbeter deur gereelde netwerke en sosiale geleenthede aan te bied. Vir meer inligting oor hoe om 'n hub in jou gebied te stig of by een van ons gevestigde hubs aan te sluit, stuur 'n e-pos na alumni@sun.ac.za.

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.

There are many ways to stay connected.

Homecoming and family weekend

The University's Homecoming and Family Weekend for alumni takes place every year in March on the Stellenbosch campus. Information is available on www.matiesalumni.com.

Join Maties connect

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

Be part of an Alumni hub

The Stellenbosch Alumni Relations team establish alumni hubs both locally and internationally to connect alumni in specific regions with one another through regular networking and social events. For more information on how to start or join an existing hub in your area, send an e-mail to alumni@sun.ac.za.

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 Ngabafunda Apha yiyo ekunxulumanisa neYunivesithi ubomi bakho bonke.

Zininzi iindlela zokuhlala uqhagamshelikile.

Impelaveki yobuyelo-khaya ubenosapho

IMpelaveki yoBuyelo-Khaya ubenoSapho eyenzelwe abo babesakufunda apha yenzeka qho kwinyanga yoKwindla kwikhampasi yaseStellenbosch. Iingombolo ezithe vetshe zifumaneka ku-www.matiesalumni.com.

Joyina i-Maties connect

Iqonga lethu le-www.matiesconnect.com liza kukunceda ekwandiseni inani leengcali onxibelelana nazo, ukufumaneni umcebisi onamava, eku-fikeleleni kwabanye ababefunda apha nasekubeni uhlale usazi ngokwenzekayo ngale yunivesithi owawusakufunda kuyo.

Yiba yinxalenye yeqela labo babesakuba ngabafundi balapha

Iqela lezoNxibelelwano lwabo baBesakuba ngaBafundi balapha lisungula amaqela abo babesakuba ngabafundi apha naza kuzinza kweli lizwe nakwamanye amazwe ukuze kunxibelelwane ngabo babesakuba ngabafundi apha abakwiingqi ezithile oko kusenziwa ngokunxibelelana rhoqo nangeendibano zasekuhlaleni. Ukuba ufuna iinkcukacha ezithe vetshe malunga nendlela yokuqalisa okanye yokujoyina iqela esele likho kwiingqi yakho, thumela i-imeyili ku-alumni@sun.ac.za.

Diploma- en Gradeplegtighede | Diploma and Graduation Ceremonies

1. 11 Desember | December 2019 (10:00)

Fakulteit Natuurwetenskappe | Faculty of Science

Doktorsgrade Doctorates	10
Ander kwalifikasies Other qualifications	15
Kanselierstoekenning Chancellor's Award	21

2. 11 Desember | December 2019 (17:30)

Fakulteit Opvoedkunde | Faculty of Education

Doktorsgrade Doctorates	26
Ander kwalifikasies Other qualifications	29

Fakulteit Krygskunde | Faculty of Military Science

Doktorsgrade Doctorates	28
Ander kwalifikasies Other qualifications	35

Kanselierstoekenning Chancellor's Award	36
--	-----------

3. 12 Desember | December 2019 (10:00)

Fakulteit Lettere en Sosiale Wetenskappe | Faculty of Arts and Social Sciences

Doktorsgrade Doctorates	40
Ander kwalifikasies Other qualifications	44

BA (Regsgeleerdheid), voorgraadse- en nagraadse programme deur die Drama-, Maatskaplike Werk-, Musiek- en Visuele Kunste Departemente (**insluitend** PhD)

Alle nagraadse diplomas

BA (Law), undergraduate- and postgraduate programmes by the Departments of Drama, Social Work, Music and Visual Arts (**including** PhD)

All postgraduate diplomas

Fakulteit AgriWetenskappe | Faculty of AgriSciences

Doktorsgrade Doctorates	41
Ander kwalifikasies Other qualifications	47

Fakulteit Regsgeleerdheid | Faculty of Law

Doktorsgrade Doctorates	43
Ander kwalifikasies Other qualifications	51

Uitsluitend BA (Regsgeleerdheid), BCom (Regsgeleerdheid) en BRekLLB

Excluding BA (Law), BCom (Law) and BAacLLB

Kanselierstoekenings Chancellor's Awards	53
---	-----------

Diploma- en Gradeplegtighede | Diploma and Graduation Ceremonies

4. 12 Desember | December 2019 (17:30)

Fakulteit Ekonomiese en Bestuurswetenskappe | Faculty of Economic and Management Sciences

Doktorsgrade | Doctorates 38

Ander kwalifikasies | Other qualifications 60

Diploma in Openbare Verantwoordbaarheid, alle nagraadse diplomas (Stellenbosch en Bestuurskool),
HonsBCom (slegs Openbare en Ontwikkelingsbestuur), HonsBPA, MPhil (Stellenbosch, Bestuurskool en SPL),
MPA, MBA, PhD (Bestuurskool en SPL)

Diploma in Public Accountability, all postgraduate diplomas (Stellenbosch and Business School),
BComHons (only Public and Development Management), BPAHons, MPhil (Stellenbosch, Business School and SPL),
MPA, MBA, PhD (Business School and SPL)

Kanselierstoekennings | Chancellor's Awards 65

5. 13 Desember | December 2019 (10:00)

Fakulteit Lettere en Sosiale Wetenskappe | Faculty of Arts and Social Sciences

Eregraad | Honorary Degree

Bonibile John Kani 70

Doktorsgrade | Doctorates 71

Ander kwalifikasies | Other qualifications 75

BA (**uitsluitend** Drama, Regsgeleerdheid en Visuele Kunste), HonsBA (**uitsluitend** nagraadse programme van die Departemente Drama, Maatskaplike Werk, Musiek en Visuele Kunste), MA (**uitsluitend** nagraadse programme van die Departemente Drama, Maatskaplike Werk, Musiek en Visuele Kunste), PhD (**uitsluitend** nagraadse programme van die Departemente Drama, Maatskaplike Werk, Musiek en Visuele Kunste)

BA (**excluding** Drama, Law and Visual Arts), BAHons (**excluding** post-graduate programmes by the Departments of Drama, Social Work, Music and Visual Arts), MA (**excluding** postgraduate programmes by the Departments of Drama, Social Work, Music and Visual Arts), PhD (**excluding** postgraduate programmes by the Departments of Drama, Social Work, Music and Visual Arts)

A decorative graphic of oak leaves in a light grey tone, positioned in the top-left corner of the page.

1

11 Desember | 11 December

10:00

Fakulteit

Natuurwetenskappe

Faculty

Science

1

PROGRAM

- Staan asseblief*
- Staan asseblief*
- Sit asseblief*
1. Akademiese prosesie kom die saal binne.
 2. Sing van die Nasionale Lied (sien binnekant van die agterblad).
 3. Konstituering deur die Visekanselier.
 4. Verwelkoming deur die Visekanselier.
 5. Verwelkoming in Xhosa.
 6. Voorstelling van kandidate wat kwalifikasies ontvang deur die dekaan van die fakulteit en toekenning van kwalifikasies deur die Visekanselier.
 7. Voorstelling van kandidaat vir die Kanselierstoekenning en oorhandiging van die toekenning deur die Visekanselier.
 8. Sluiting deur die Visekanselier.
 9. Akademiese prosesie verlaat die verhoog.
- Staan asseblief*

PROGRAMME

- Please stand*
- Please stand*
- Please sit*
1. Entrance of academic procession into the hall.
 2. Singing of the National Anthem (see inside back cover).
 3. Congregation formally constituted by the Vice-Chancellor.
 4. Welcome by the Vice-Chancellor.
 5. Welcome in Xhosa.
 6. Presentation of candidates receiving qualifications by the dean of the faculty and conferment of qualifications by the Vice-Chancellor.
 7. Introduction of the candidate for the Chancellor's Award and presentation of the award by the Vice-Chancellor.
 8. Closing by the Vice-Chancellor.
 9. The academic procession leaves the stage.
- Please stand*

Doktor in die Wysbegeerte Doctor of Philosophy

BALCOMB, Blake Howard (Biochemistry)

The Staphylococcus aureus redoxome: Characterisation of enzymes involved in oxidative stress resistance and survival

The global resurgence of antibiotic resistance calls for the identification of novel drug targets. Therapies that strengthen the body's ability to defend itself against infection are receiving increased attention. Mechanisms whereby the pathogen *Staphylococcus aureus* protects itself against oxidative attacks the innate immune system uses to ward off infection were investigated. A new family of enzymes that the bacteria use to detoxify an antimicrobial compound produced by the immune system was discovered. Without these enzymes, *S. aureus* is more susceptible to being killed. These findings open up new avenues for the development of treatments that augment the host's ability to fend off infection.

Supervisor: Prof E Strauss

BEGUM, Nusrat Mutta (Polymer Science)

Designing of PoEGylated tyrocidine for improved antiplasmodial chemotherapy

Tyrocidin is a known anti-malarial peptide that cannot be used as a drug due to its haemolytic activity. Tyrocidin was conjugated with poly(oligo(ethylene oxide)methacrylate) (PoEGMA), which resulted in a conjugate that self-assembles into micelles. The link between peptide and PoEGMA is designed to hydrolyse in the food vacuole of the malaria parasite (pH 5.5). The surface of the micelles was decorated with targeting ligands that trigger the uptake of the micelles into erythrocytes. The pH-induced release of tyrocidine was confirmed along with the strongly reduced haemolytic activity.

Supervisor: Prof L Klumperman

Co-supervisor: Dr N Gule

BOTES, Alicia (Polymer Science)

Chitin and chitosan nanomaterials for the efficient removal of heavy metals from waste water

Heavy metal contamination in water is a serious industrial problem. This study involved the use of nanomaterials based on chitin and chitosan to remove heavy metals from water. Chitosan nanoparticles and nanofibers as well as chitin nanowhisker-based composite materials were evaluated, while a serendipitous discovery led to the development of a chitosan-based sponge. It was shown that the selection of a suitable biosorbent based on these materials could be made, taking the target metal species and parameters such as pH into consideration. The biosorbents were shown to be reusable, and it was proved that adsorbed metals could easily be removed from these materials.

Supervisor: Prof AJ van Reenen

Co-supervisor: Dr M Lutz

BRITS, Christiaan Petrus (Physics)

Coulomb excitation of the 2+ state in 14C and the quadrupole deformation of states in 194Pt

Electric quadrupole transition strength is a fundamental quantity to probe the collective behaviour in nuclei and is a basic observable in studies of nuclear structure. Experimental measurements of this transition strength provide powerful information on quantities such as deformation, the interaction between protons and neutrons, and the vanishing and emergence of shell gaps. The much improved values of the transition strength between nuclear states in 194-platinum provide important constraints for nuclear theory. The measurement on 14-carbon lays the foundation for improved future experiments to address the apparent inconsistencies in the understanding of the nuclear structure in this nucleus.

Supervisor: Dr M Wiedeking

Co-supervisors: Dr K Hadynska-Klek (external), Prof. P Papka

CASTILLO, Maria Loreto (Botany)

Processes and drivers of Prosopis invasions in Eastern Africa

Prosopis trees are among the world's most invasive plants, causing severe economic and biodiversity impacts. A genetic study demonstrated that these trees often hybridise due to low genetic differentiation between species and that higher ploidy levels are associated with invasiveness. A study on founder and invasive genotypes in Kenya suggested that both rapid post-introduction evolution and phenotypic plasticity have contributed to the invasiveness of *Prosopis*. Despite similar introduction histories of *Prosopis* to Kenya and Ethiopia, population genetic analyses further suggest that different demographic processes are driving invasions in these two countries. These findings have important implications for *Prosopis* management.

Supervisor: Prof JJ Le Roux (external)

Co-supervisors: Prof BW van Wilgen, Dr U Schaffner (external)

DAVISON, Steffi (Microbiology)

Exploring phenotypic and genetic diversity of natural S. cerevisiae strains for improved recombinant cellulase secretion

The one-step conversion of agricultural residues to bio-ethanol is approaching commercialisation, but the technology still requires optimisation to be cost-effective. One of the remaining challenges is the production of recombinant cellulase enzymes at high levels in yeast strains that can withstand the stressful conditions associated with bio-ethanol production. This study investigated the expression of a set of cellulose-degrading enzymes in different natural yeast strains to identify those with superior enzyme production traits. The genetic mechanisms underlying these superior production traits were investigated and new target genes for the enhanced production of enzymes in industrial strains were identified.

Supervisor: Prof WH van Zyl

Co-supervisor: Prof R den Haan (external)

DJAGBA, Prudence (Mathematics)*Contributions to the theory of Beidleman near-vector spaces*

The concept of a vector space is fundamental in mathematics and several of its applications. Some structures are nearly vector spaces but fail to satisfy all of the relevant axioms, hence near-vector spaces are studied. One possible definition of such things was provided by Beidleman in his 1966 thesis. In the present study, Beidleman's ideas were developed further. In particular, a thorough account is given of the two kinds of subspaces generated by a finite set of vectors in a finite Beidleman near-vector space. Several relevant results on near-fields were also proved.

Supervisor: Dr K-T Howell

Co-supervisor: Dr G Boxall

EGHBALI DOGAHEH, Seyed Babak (Chemistry)*An investigation into the functionalisation of polystyrene-co-maleic anhydride with calixarenes and their potential applications*

A method to successfully graft the versatile molecular receptor known as calix[4]arene onto polystyrene-co-maleic anhydride was developed. This entailed optimising the monofunctionalisation of the calix[4]arene in order to selectively attach it without causing uncontrolled cross-linking of the polymer chains. As calix[4]arenes can be modified for a number of different applications, including ion sensing and complexation, the potential applications of this method are extremely promising. Two possible applications were investigated, namely mercury sensing and hydrogel formation. These proved to be challenging due to unforeseen synthetic and conformational issues. Nevertheless, these findings have provided insights and have laid the groundwork for future studies on polymer tethered calix[4]arenes.

Supervisor: Prof GE Arnott

Co-supervisor: Prof PE Mallon

FORTUIN, Lisa (Polymer Science)*Biodegradable polymeric prodrugs for the delivery of antimalarial combination therapy*

The combination therapy consisting of artemether and lumefantrine is currently the preferred choice for the treatment of malaria. The requirement to eat fatty food and the increasing occurrence of drug resistance have sparked the development of new drugs and new drug delivery systems. A delivery system was investigated that features reversibly covalently linked lumefantrine. Targeted uptake by malaria-infected erythrocytes leads to exposure to the acidic environment of the parasite's food vacuole, which leads to local release of the drug. Higher local drug concentrations and less exposure of other tissue to the drug are expected to be major advantages.

Supervisor: Prof L Klumperman

Co-supervisor: Dr R Pfukwa, Prof. M Rautenbach

GUDAGUDI, Kirankumar (Physiological Sciences)*Fibroblast growth factors, a potential game plan for regeneration of skeletal muscle*

Satellite cells are adult stem cells resident in skeletal muscle. In response to injury, they are activated and proliferate, forming colonies of myoblasts. Fibroblast growth factors (FGFs) play an important role in modulating satellite cells and myoblast dynamics. Employing two different FGF family members added to primary human myoblast cultures showed that FGF2 and FGF6 have individual effects. After induction of quiescence, sequential treatment administering first FGF6 and then FGF2 enhanced first activation and then proliferation, respectively. By determining effects on key cell cycle controllers and myogenic regulatory factors, administration in reverse order did not aid in the regeneration sequence.

Supervisor: Prof KH Myburgh

HARRIS, Dugal Jeremy (Geo-informatics)*Regional mapping of spekboom canopy cover using very high-resolution aerial imagery*

Widespread degradation of subtropical thicket has led to substantial decreases in ecological functioning and biodiversity. Canopy cover maps are required to inform and support large-scale restoration. A semi-automated spekboom canopy cover mapping method was developed that can be applied over very large areas. The method was demonstrated in the Little Karoo, which involved radiometric calibration and classification of more than 2 000 very high-resolution (50 cm) multi-spectral aerial images. The radiometric calibration technique developed is currently being commercialised.

Supervisor: Prof A van Niekerk

HODSON, Luke Eric (Chemistry)*Design and synthesis of covalent kinase inhibitors utilising novel electrophiles*

The efficacy of many modern small molecule cancer therapies is frequently diminished by the development of cancer cell resistance. Irreversible inhibitors for the epidermal growth factor receptor, a mutation-prone protein-tyrosine kinase of relevance in modern cancer therapy, were specifically developed and synthesised to target cysteine, serine or catalytic lysine amino acid residues near the active site of this kinase. A range of electrophiles, including 1,4-dicarbonyl-, sulfonyl fluoride-, imidazole- and nitrile-functional groups was incorporated onto established kinase-binding scaffolds. This resulted in compounds that demonstrated good biochemical inhibition and modest activity against drug-resistant cancer cell lines.

Supervisor: Prof WAL van Otterlo

Co-supervisor: Dr SC Pelly (external)

JANA, Collins Edward (Biochemistry)

Synthesis, profiling and mode of action studies of PanSulfAms as inhibitors of coenzyme A biosynthesis and utilisation

Sulphonamides, the first synthetic antibacterials discovered in the 1930s, target the utilisation of the vitamin folate. Sulphonamide analogues of other vitamins were shown in early tests to hold promise for the treatment of streptococcal and malaria infections, but this work was not developed further. PanSulfAms are analogues of pantothenate (Vitamin B5) that were successfully resynthesised and shown to selectively inhibit certain bacteria, specifically the nosocomial pathogen *Staphylococcus aureus*. This was found to be due to the unique character of the enzymes that *S. aureus* uses to transform pantothenate into the essential cofactor coenzyme A (CoA) and the negative impact the PanSulfAms has on the biosynthesis and utilisation of CoA in this organism.

Supervisor: Prof E Strauss

Co-supervisors: Dr M de Villiers

MALATJI, Kgashane (Physics)

Statistical properties of deformed samarium isotopes and constraining the nucleosynthesis of ^{180}Ta

Several samarium isotopes show discrepancies in the persistence of the nuclear scissors resonance, which may hint at interesting underlying physics and possibly impact the production of elements in the universe. The importance of nuclear structure effects is apparent from tantalum isotopes. With very few exceptions, most heavy nuclei are produced in neutron capture processes, which take place in stars and supernovae. New nuclear data allow for astrophysical relevant capture cross sections to constrain the production of $^{180}\text{-tantalum}$, mainly due to the photodisintegration process. This solves the longstanding question on which process is primarily responsible for the production of $^{180}\text{-tantalum}$.

Supervisor: Dr M Wiedeking (external)

Co-supervisors: Profs S Siem (external), P Papka

MATEBESE, Belinda Thembisa (Applied Mathematics)

Path planning for wheeled mobile robots using an optimal control approach

Mobile robots often need to find feasible and collision-free paths from initial to goal states, while satisfying robot kinematic and dynamic constraints. An approach employing optimal control was presented to solve such path-planning problems. Obstacles in the environment were modelled with potential fields and optimality conditions for specific types of robots were derived. The conditions led to sets of differential equations that were solved indirectly with the leapfrog method, which would improve an initial path recursively through a subdivision scheme. Simulations and experiments on a two-wheeled robot and a mobile manipulator highlighted the value of the method over existing approaches.

Supervisor: Prof MK Banda (external)

Co-supervisor: Drs DJ Withey (external), WH Brink

MENTOOR, Ilze Lauren (Physiological Sciences)

Chemoresistance in a breast cancer animal model: The role of obesity and inflammation

Obesity in the context of breast cancer contributes to poor treatment outcomes. Adipose tissue in the tumour micro-environment serve as an exogenous energy source for the survival of breast cancer cells. These cancer cells modulate lipid metabolism by altering the secretion of adipokines through adipocytes, resulting in the release of free fatty acids to serve as energy substrates. The underlying physiological and molecular mechanisms that are involved in chemotherapeutic treatment resistance were investigated and confirmed the hypothesis that obesity-induced inflammation contributes to the development of doxorubicin chemotherapeutic treatment resistance in breast cancer cells.

Supervisor: Dr TA Nell

Co-supervisor: Prof A-M Engelbrecht

MUNCH, Zahn (Geo-informatics)

Towards land change management using ecosystem dynamics and land cover change in rural Eastern Cape

Woody encroachment in grasslands is a threat to the functioning and productivity of rangelands, affecting rural livelihoods in the Eastern Cape. This study determined how accurately land cover transformation can be quantified using erroneous, existing data sets and how error patterns affect future scenario modelling. Grasslands are predicted to decrease in favour of woody invasive plant species and cultivated land, resulting in a decrease of 12% net carbon storage and 6% evapotranspiration. The quantification of such changes in biophysical parameters is essential to support future land management in the Eastern Cape and provides the foundation for wider applications of the novel methods developed.

Supervisor: Prof A van Niekerk

MUZA, Upenyu Lucky (Polymer Science)

Thermal field-flow fractionation and the advanced analysis of complex polymers

The advent of cutting-edge technologies has prompted a surge in the demand for unique and advanced materials. Complex polymers are advanced materials with critical functionalities and applications in biomedicine, cosmetics and nanotechnology. Such materials have complexities in their molecular composition, structure, shape, size and weight. The definition and characterisation of such complexities are essential in the design and application of requisite materials and understanding the mechanisms of the relevant synthesis process. Novel and advanced multidimensional analytical techniques were developed in this study for the comprehensive analysis of such complexities, with the utility of a contemporary separation technique called thermal field-flow fractionation.

Supervisor: Prof H Pasch

NDLELA, Luyanda Lindelwa (Zoology)

Bacterial biological control of toxic cyanobacteria and the resulting eco-toxicity

Globally, toxic cyanobacterial blooms are a major environmental and human health concern. These toxins, produced by cyanobacteria, affect aquatic life, contaminate drinking water and have been recorded to kill wildlife and humans. A potential biological control scenario was investigated using predatory bacteria. Four bacterial isolates were selected and shown to reduce cyanobacterial toxicity in water within four days. Water fleas, shrimp, lettuce seeds and onions were used as bio-indicators. A significant increase in the survival of the bio-indicators following treatment suggested that the predatory bacteria could be used to control cyanobacteria growth and improve water quality.

Supervisor: Prof P Oberholster (external)

Co-supervisor: Prof JH van Wyk

PASNIN, Charles (Zoology)

A genetic approach to the conservation of sponges in the Western Indian Ocean, with emphasis on the Mascarene Archipelago

Sponges are important components of marine ecosystems globally, but their lack of morphological characteristics make it difficult to distinguish species, hence sponges are largely understudied. Biodiversity surveys in the Rodrigues, Mauritius and Reunion islands revealed a high diversity of sponges, including numerous new species. Phylogenetic analyses showed that sponges in the Mascarene Archipelago are separated from other species globally and that, largely, each island harbours an evolutionary unique sponge fauna found nowhere else. Within the context of marine conservation, the management focus should be on each separate island, rather than the combined Mascarene region, to safeguard reef ecosystems in a changing environment.

Supervisor: Prof S von der Heyden

PRETORIUS, Arnu (Computer Science)

On noise-regularised neural networks: Initialisation, learning and inference

The effects of popular noise regularisation techniques for neural networks on optimal weight initialisation, the training process and the model obtained were investigated. Noise regularisation was shown to de-emphasise low-variance components in training data, allowing the model to focus on more prominent statistical regularities. Studying the interplay between noise injection and initialisation led to the development of noise-sensitive critical initialisations for stable signal propagation in deep networks and an understanding of the failure modes for alternative initialisation. These insights were used to propose a novel training scheme for Bayesian neural networks, allowing the training of deeper networks than previously possible.

Supervisor: Dr RS Kroon

Co-supervisor: Dr H Kamper

REYNOLDS BERRY, Terry Veronica (Zoology)

Systematics of the parasitoid wasp subfamily Banchinae (Hymenoptera; Ichneumonidae) in the Afrotropical region

The evolutionary history and taxonomy of parasitoid wasps are uncertain. The analysed morphological and genetic data, based on a large number of African Banchinae specimens, resulted in new systematic insights and the description of thirteen new species. The forest-associated lineage was found to be the oldest banchine genus within the Afrotropical region, and the Bayesian dating of a temperate-associated genus refutes the hypothesis that banchine lineages found within the Cape region are more derived because of their association with the Cape Floristic Region. The outdated generic key to the Banchinae in the Afrotropical region was updated and illustrated.

Supervisor: Dr S van Noort (external)

Co-supervisor: Prof CA Matthee

SHAUMBWA, Vaino Tuhafeni (Mathematics)

Weighted centrality and a further approach to categorical commutativity

The familiar fact that the sum of a pair of numbers does not depend on the order in which they are added, known as commutativity, fails for many other operations. Commutators were introduced as a kind of measure of the obstruction to commutativity. The main results were to produce new clear connections between various commutators, to characterise commutators by their global properties and to extend commutator and related theory to more general contexts than previously considered. It was shown that the theory of centrality can be studied in contexts where there is only an abstract notion of subtractivity.

Supervisor: Dr JRA Gray

SIKITI, Phumile (Chemistry)

Flexible Co(II) metal-organic frameworks with mixed ligands under controlled pressure

Three new porous cobalt-based metal-organic frameworks were prepared and studied for their ability to absorb carbon dioxide. The framework linkages were selected for their conformational flexibility and the resulting materials were found to exhibit structural pliability in response to increasing gas pressure. The crystal structures were characterised using X-ray diffraction and computational methods with a view to understanding the mechanisms that govern structural flexibility at the molecular level. One of the materials possesses a new 3-D topology and its mechanism for gas uptake involves two distinct modes of flexibility, namely breathing and swelling.

Supervisor: Prof LJ Barbour

SKEIN, Lisa (Zoology)*The role of native marine predators in regulating invasions: A case study of the invasive mussel *Semimytilus algosus* and native subtidal predators*

The role of native marine predators in regulating alien prey is poorly understood. While generalist predators might be expected to include alien prey into their diets, this outcome is not necessarily immediate. Such avoidance of alien prey can facilitate invasions. This research demonstrated that, long-term exposure to alien prey that are similar to prey already eaten by predators can overcome avoidance. Importantly, the degree to which native predators are able to regulate non-indigenous prey depends on their abundance and feeding rate. This highlights the importance of protecting native predator populations in an effort to protect against invasions in marine systems.

Supervisor: Dr TB Robinson-Smythe

Co-supervisor: Dr M Alexander (external)

VAN DER WESTHUIZEN, Leandi (Chemistry)*Scaffold manipulation for the syntheses of novel, potentially irreversible Akt inhibitors*

The protein kinase Akt is implicated in the progression of cancer. A number of covalent allosteric Akt inhibitors are known and based on these scaffolds a small library of novel potential covalent allosteric inhibitors was designed and synthesised. The binding modes, potencies and antiproliferative activities of these compounds were explored, thereby furthering the structure activity relationship knowledge of this class of Akt inhibitors. Three novel covalent inhibitors were identified, exhibiting fair activity against Akt1wt and some cancer cell lines, potentially paving the way for novel covalent allosteric inhibitors with improved physicochemical properties.

Supervisor: Prof WAL van Otterlo

Co-supervisor: Dr SC Pelly (external)

VAN NIEKERK, Francois Koch (Mathematics)*Concrete foundations of the theory of noetherian forms*

Concrete foundations to a new theory of noetherian forms were developed by means of elaboration of links with the theory of semi-abelian categories and discovery of a new significant class of examples, which considerably widens the previously thought scope of application of the theory in algebra. In addition, the theory of biproducts and commutators was developed in full generality in the context of a noetherian form, and the notion of a rank of complementedness, which earlier arose in the study of the noetherian form of finite abelian groups, was investigated in depth in the context of a modular lattice.

Supervisor: Prof Z Janelidze

Co-supervisor: Dr JRA Gray

VYMERS, Preston Arthur (Physics)*Structure of excited states seen in double beta decay investigated with the $^{98}\text{Mo}(\text{}^3\text{He},n)^{100}\text{Ru}$ and $^{148}\text{Nd}(\text{}^3\text{He},n)^{150}\text{Sm}$ two-proton stripping reactions*

The nuclear structure of daughter nuclei plays an important role in the decay constant of double beta radioactive decays. Two nuclei, ^{100}Mo and ^{150}Nd , were observed to decay to excited states of daughter nuclei ^{100}Ru and ^{150}Sm , respectively. An experimental investigation was conducted to probe the two-proton occupation of these specific excited states. The measurements were conducted using a detector arrangement sensitive to the $(\text{}^3\text{He},n)$ reaction, a high-resolution gamma-ray spectrometer (AFRODITE) and a neutron detector array. The second 0^+ excited state of ^{100}Ru was strongly populated, indicating a strong two-proton occupation of the state.

Supervisor: Prof P Papka

Co-supervisor: Prof JF Sharpey-Schafer (external)

WILBERS, Derik (Chemistry)*Hydrocarbon oxidations using metal-containing polypropylene-imine dendrimers*

Protocols for the immobilisation of several transition metals on the periphery of polypropylene-imine dendrimers were developed. The resulting metallodendrimers were applied as catalysts in the oxidative transformation of hydrocarbons to form value-added oxygenates. Investigations into the effect of several reaction parameters on the catalytic process provided some useful insight into the behaviour of these systems at a molecular level. Of special interest was the behaviour of the metal complexes in relation to the oxidant employed. It is envisaged that this will facilitate the development of catalytic systems with greater efficiencies in the aforementioned processes.

Supervisor: Prof SF Mapolie

Co-supervisor: Dr R Luckay

ANDER KWALIFIKASIES | OTHER QUALIFICATIONS

Fakulteit Natuurwetenskappe | Faculty of Science

Magister in die Natuurwetenskappe

Master of Science

Asbury, Tamaryn Anne (Genetics)(*cum laude*)
Bailey, Tarryn (Physics)
Bothma, Johannes Christoffel (Zoology)(*cum laude*)
Burns, James Joubert (Geo-informatics)
Busschau, Theo (Zoology)(*cum laude*)
Chabaari, Winnie Wanja (Mathematics)
Dumbleton, Bronwyn Catherine (Mathematical Statistics)(*cum laude*)
Gordon, Henry Justinian (Geology)
Greyling, Barend Petrus (Chemistry)
Janse van Rensburg, Mari (Chemistry)
Koech, Kiprono Elijah (Mathematical Sciences)(*cum laude*)
Kotzé, Timothy John (Chemistry)
Kutama, Mulalo Dianah (Zoology)
Kuyler, Gestél Christine (Polymer Science)(*cum laude*)
Le Roux, Wildene (Plant Biotechnology)
Madula, Andani Alex (Mathematical Sciences)
Mamba, Feziwe Bathabile (Polymer Science)
Maponya, Mmamokoma Grace (Geo-informatics)
Morran, Ella Elizabeth (Zoology)
Ngcamphalala, Menzi Meerfact (Mathematical Sciences)
Nyakombi, Priscilla (Polymer Science)
Odendaal, Johannes Christoffel Westraat (Biochemistry)(*cum laude*)
Olivier, Lukas Van Zyl (Physiological Sciences)
Powell, Chanté Melissa (Genetics)(*cum laude*)
Prins, Adriaan Jacobus (Geo-informatics)(*cum laude*)
Randle, Matilda Rose (Botany)(*cum laude*)
Rathaga, Letladi William (Mathematical Sciences)
Razakarino, Faratiana Brice (Mathematics)(*cum laude*)
Selkirk, Sarah Jane (Mathematics)(*cum laude*)
Sher, Lucien (Physiological Sciences)
Sukwana, Alungile (Mathematical Sciences)
Taljaard, Johannes Hendrik (Computer Science)(*cum laude*)
Tbaeen, Asmaa Omer Tiraab (Mathematics)
Thomson, Greig James Angus (Physiological Sciences)
Van Deventer, Riana (Genetics)(*cum laude*)
Van Rensburg, Hendre (Zoology) *cum laude*)
Vermooten, Marli (Geology)
Visagie, Kevin Johan (Chemistry)(*cum laude*)
Watkins, Barry (Geo-informatics)(*cum laude*)

Honneurs-Baccalaureus in die Natuurwetenskappe

Bachelor of Science Honours

Adams, Gradwell Durlin (Biochemistry)
Adams, Graham Thomas (Earth Sciences)
Adams, Tristan (Biodiversity and Ecology)
Ambrose, Wade Daniel Mccallum (Genetics)
Ament, Karly (Polymer Science)
Atkinson, Natasha Lynn (Biodiversity and Ecology)
Baker Effendi, Sedick David (Computer Science)(*cum laude*)
Barraball, Chelsea (Computer Science)(*cum laude*)
Bester, Siann (Physics)(*cum laude*)
Beukes, Anwen (Biodiversity and Ecology)

Boden, Brynmore Gregory (Biodiversity and Ecology)(*cum laude*)
Bosworth Smith, Antonia Emma (Physiological Sciences)
Bouguenon, Ashleigh Jane (Genetics)
Bowman, Tylon Cecil (Biodiversity and Ecology)
Bredevelde, Luca (Earth Sciences)
Brill, Nicola Mary (Mathematics)(*cum laude*)
Brits, Anya (Chemistry)
Brown, Kirsten (Biochemistry)
Brown, Rebecca Charlotte (Biochemistry)
Bryce-Rogers, Hogan Peter (Chemistry)
Buckton, Calib (Physics)
Burger, Carel Johannes (Earth Sciences)
Burger, Christiaan Neill (Computer Science)
Cairns, Megan Louise (Physiological Sciences)
Carlton, Luke Roos (Earth Sciences)
Cilliers, Heinrich (Computer Science)
Coetzee, Johannes (Computer Science)(*cum laude*)
Costaras, Heléna Christiana (Earth Sciences)
Cox, Courtney (Microbiology)
Craven, Jessica Rachel (Physics)(*cum laude*)
Crowder, James (Chemistry)
Cupido, Ivana (Earth Sciences)(*cum laude*)
Davey, Kyle (Computer Science)(*cum laude*)
Daws, Warrick (Earth Sciences)
De Gois, Sabrina (Biochemistry)
De Nicola, Ella Hannan Maria (Genetics)(*cum laude*)
De Stadler, Jessica Amy (Plant Biotechnology)
De Villiers, Abigail Kate (Mathematics)(*cum laude*)
De Villiers, Freddie (Applied Mathematics)(*cum laude*)
De Vries, Adrian Matthew (Plant Biotechnology)
De Wet, Stefan Carl (Applied Mathematics)
Dennis, Simon John (Computer Science)
Dold, Samantha (Earth Sciences)
Du Plessis, Juan (Geo-informatics)
Du Toit, Josias Stephanus (Microbiology)
Du Toit, Nicole (Computer Science)(*cum laude*)
Dukes, Marc Daniel (Geo-informatics)
Ehrenreich, Craig (Plant Biotechnology)
Evans, David Robert (Physiological Sciences)
Fagg, Courtney (Biodiversity and Ecology)
Fenner, Charles Frederick Lewis (Physiological Sciences)(*cum laude*)
Ferreira, Michael Ignazio (Computer Science)
Fillis, Tristan Jack (Physiological Sciences)
Fischer, Riëtte Louwrene (Plant Biotechnology)(*cum laude*)
Fisher, Joel Chanse (Biochemistry)(*cum laude*)
Fourie, Heike (Earth Sciences)
Fourie, Samantha-Kerry (Applied Mathematics)
Frantz, Tagwin Claire (Biochemistry)
Fredericks, Kim (Physiological Sciences)
Fuller, Aimee Isobel (Physiological Sciences)(*cum laude*)
Geddie, Hannah Valerie (Physiological Sciences)(*cum laude*)
Geldenhuys, Dylan Shane (Mathematics)
Gentleman, Sarah Leigh (Polymer Science)
Gibbs, Richard Peter Gordon (Mathematics)(*cum laude*)

Govender, Sage Grushenka (Earth Sciences)
 Gqaleni, Nosipho (Biodiversity and Ecology)
 Habeck, Manfred (Computer Science)
 Harrison-Migochi, Andrew Mphatso (Mathematics)(*cum laude*)
 Heathcote, Nicola (Physiological Sciences)
 Higgs, Caley Jade (Geo-informatics)
 Hill, Dominic (Computer Science)(*cum laude*)
 Holster, Keshia Joan (Genetics)
 Horn, Inca Juliet (Plant Biotechnology)
 Hubble, Emma Rebecca (Genetics)
 Jackson, Jason (Computer Science)
 Jan, Lerato Victoria (Geo-informatics)
 Janse van Vuuren, Chantell (Biochemistry)
 Janse van Vuuren, Melani (Biochemistry)
 Jansen van Rensburg, Thomas William (Plant Biotechnology)
 Jayakumar, Hrishi (Physiological Sciences)
 Jones, Caitlin (Earth Sciences)(*cum laude*)
 Joos, Carla Grete (Microbiology)
 Jooste, Marlise (Microbiology)
 Kader, Zubayr (Physiological Sciences)(*cum laude*)
 Kapp, James (Geo-informatics)(*cum laude*)
 Keirsgijeter, Wim Carl (Computer Science)(*cum laude*)
 King, Emma Catherine (Physics)(*cum laude*)
 Kitshoff, Ruan (Biochemistry)
 Kleinhans, Klara (Applied Mathematics)(*cum laude*)
 Klopper, Tamaryn (Genetics)
 Knight, Evan Eric (Physiological Sciences)
 Kooverjee, Priyanka (Mathematics)
 Kotze, Soné (Biochemistry)(*cum laude*)
 Krijt, Hendrik Carel (Computer Science)
 Kruger, Bianca Ursula (Genetics)
 Kuijers, Ben (Microbiology)(*cum laude*)
 Lang, Ryan (Computer Science)(*cum laude*)
 Langley, Jethro Rowan (Genetics)(*cum laude*)
 Le Roux, Alain (Biochemistry)
 Lourens, Damian Brett (Plant Biotechnology)(*cum laude*)
 Louw, Albertus Stephanus (Mathematics)(*cum laude*)
 Lugard, Emily Elizabeth (Physiological Sciences)
 Luiz, Ricardo (Computer Science)(*cum laude*)
 Maart, Sasha Leigh (Plant Biotechnology)
 Maberly, Michelle Astley (Biodiversity and Ecology)
 Maboeei, Palisa Mbali (Plant Biotechnology)
 Mahanyapane, Motlatsi Vincent (Physics)
 Malan, Ockert Gerbrand (Geo-informatics)
 Manye, Remofilwe Eleanor (Chemistry)
 Marais, Darrian Jorge Pires (Applied Mathematics)
 Maree, Darren Nicholas (Chemistry)
 Mbongwa, Luyanda Cherubin (Polymer Science)
 McCarthy, Lauren Kyna (Geo-informatics)
 Mdekazi, Mandilakhe Ndithembele (Mathematics)
 Merrick, Clarize (Physiological Sciences)
 Metz, Johannes Hendrik (Polymer Science)
 Meyer, Catherine Louise (Biodiversity and Ecology)
 Michie, Leah Louise (Physiological Sciences)(*cum laude*)
 Minnie, Savannah Loren (Biochemistry)
 Mkandla, Andile (Earth Sciences)
 Moldenhauer, Jena (Earth Sciences)
 Moodie, Bronwen Moira (Plant Biotechnology)
 Msibi, Nontobeko Faith (Applied Mathematics)
 Murray, Shona Megan (Biochemistry)(*cum laude*)
 Murray, Thomas Everitt Rautenbach (Microbiology)
 Ndyafi, Vincent Chimbunde (Geo-informatics)
 Nicolas, Laval Ronald (Polymer Science)
 Nortje, Janca (Biodiversity and Ecology)
 Nortje, Welri (Biodiversity and Ecology)
 Nxumalo, Samukelo Sibongokuhle (Earth Sciences)
 O'Brien, Aedan Liam (Earth Sciences)
 Parker, Kauthar (Genetics)
 Paterson, Margo (Biodiversity and Ecology)
 Petersen, Ashlin Veruscka (Biochemistry)
 Pierce, Amanda (Computer Science)(*cum laude*)
 Pieterse, Johannes Albertus (Computer Science)
 Pintos Cerda, Lucas Roman (Earth Sciences)(*cum laude*)
 Rabie, Jacques (Mathematics)(*cum laude*)
 Ras, Martin Eduard (Polymer Science)
 Rass, Atarah Melanie Rose (Physiological Sciences)
 Rocher, Dominique Françoise (Microbiology)(*cum laude*)
 Rosenfels, Ryan Carl (Earth Sciences)
 Rossouw, Chantelle (Biochemistry)(*cum laude*)
 Saffer, Zoë Olivia (Physics)(*cum laude*)
 Sanders, Shanley Frieda (Physiological Sciences)
 Saunderson, Dwaine Ruan (Computer Science)
 Schepers, Ashleigh Claire (Computer Science)(*cum laude*)
 Schloms, Tanya (Microbiology)(*cum laude*)
 Schutte, Casper Jan Hendrik (Biochemistry)
 Sekwati, Noko Mahudu (Earth Sciences)
 Shepherd, Michael John (Computer Science)(*cum laude*)
 Sihawu, Phikolomzi (Plant Biotechnology)
 Simons, Mishkah (Biochemistry)
 Skosana, Unathi (Physics)(*cum laude*)
 Slabbert, Benilo (Biochemistry)(*cum laude*)
 Spencer, Katarina Paula (Genetics)
 Stigling, Justin (Computer Science)
 Swart, Jacques (Biochemistry)(*cum laude*)
 Usher, Katherine Alice (Plant Biotechnology)
 Van der Merwe, Michelle (Earth Sciences)
 Van der Merwe, Michelle Pauline (Physiological Sciences)
 Van Niekerk, Amari-Carla (Biochemistry)(*cum laude*)
 Van Niekerk, Ryno (Polymer Science)
 Van Ster, Jodie Tamsyn (Biochemistry)
 Van Zyl, Jané (Geo-informatics)
 Van Zyl, Simoné (Computer Science)
 Von Fintel, Martin William (Geo-informatics)
 Wassenaar, Veronique (Chemistry)
 Wiesner, Bernard (Computer Science)
 Williams, André Craig (Geo-informatics)
 Wilson, Joshua (Applied Mathematics)
 Ye, Jiajia (Chemistry)
 Yeo, Emily Nadine (Biochemistry)(*cum laude*)
 Yuill, Jessie Joanne Margareth (Biodiversity and Ecology)

Baccalaureus in die Natuurwetenskappe**Bachelor of Science**

Adams, Leonné Caydene
Aggenbach, Willem Theodore
Allie, Sakeena
Andrew, Wade Stuart
Andrews, Kelsey Jayne
Atkins, Noah Daniel
Babl, Cosima Tanja Ulricke
Balie, Meyrick Ferdinand
Barnard, Helen
Barron, Tamryn Shireen
Batinti, Alisio
Bester, Ané Elsabé
Bester, Wiann
Beukes, Claire Maree
Blackbeard, Jonathan Kyle
Block, Inge
Bloemetje, Jenna Morgan
Bond, Lian Demrick
Booyens, Renata Madre
Bormans, Jeroen
Botha, Daniel
Botha, Elriet
Botha, Jonathan Daniel (*cum laude*)
Botha, Marilize
Botha, Sasha Kari
Bougard, Kayleigh
Bouwer, Mari-Louise
Brand, Mia
Brandt, Anaïs Chloé
Breytenbach, Karlie
Brown, Lauren Rachel
Brunsdon, Kaylin Wendy
Buchanan, Amy-Lee
Buck, Amy Claire
Burger, Francois Meiring
Burger, Gerrit Van der Merwe
Butler, Emer
Caillet, Celine
Campbell, Tarryn
Carolus, Wareldia Louise
Carstens, Dylan
Ceasar, Jamie
Chapman, Kyle
Chicken, Anika
Chingwaru, Steve Jason Pasipanodya
Cloete, Stephanie Simone
Coetzer, Joshua Stephen
Coffey, Jonathan David
Cogill, Sinnead Anne
Coka, Zandile Oratile
Conradie, Janica
Conradie, Madri Franci
Cornelius, Frederick Mitchell
Cornwall, Morgan Kaitlin
Correia, Jacinta Borges
Crause, Jenny Jessica
Cullis, Andrew William (*cum laude*)
Dale, Kealan Niamh (*cum laude*)
Damant, James Peter
Daniels, Miche
Darby-Wade, Frances Jessie
De Beer, Daniel Willem
De Bruin, Faricque Cris-Leigh
De Freitas, Marco Daniel
De Jongh, Anastasia Nicole
De Lange, Bronwyn
De Wet, Natalie Katherine
Deacon, Sheldon
Dekker, Amari
Denissen, Julia Katherine (*cum laude*)
Dewnarth, Micaela Dominique (*cum laude*)
Dijkstra, Ané
Dos Santos, Caitlin Jane
Dowra, Sahil
Dreyer, Andrei Michael
Du Plessis, Marné
Du Toit, Kaylen
Du Toit, Simon Mark
Duncan, James Dugald
Duxbury, Paula Jane
Eefting, Jantina Grietje
Elias, Aidan Mark
Elijah, Skyla Sarah
Ettisch, Lisa
Fairhurst, Delaney
Fakier, Fauwaaz
Farrant, Sarah Jane
Fick, Wessel Bonnet
Fielvard, Axel Camille Daniel
Filmalter, Lane
Fleischer, Tyla
Foley, Rowland James
Foster, Bryce John (*cum laude*)
Foxtton, Alexander
Francis, Kay-Leigh Veronique
Fulton, Kristen
Gardiner, Lester Eugene
Geldenhuis, Anname
Gilfellan, Godfrey Alfred Johnathon
Glennie, Robyn Hannah
Gogotya, Apehelele
Goosen, Margeaux Lucia
Goosen, Tyla Natasha
Gouws, Francois
Gouws, Karla
Gova, Phumeza
Greyling, Christi
Grobbelaar, Lize Mireille
Grobbelaar, Matthew James
Grobler, Corlia
Haasbroek, Gerhardt
Hamza, Malikah

Heap, Nicole Kayla
Heinrich, Bowen
Heinrich, Kayla
Hendrickse, Megan Debora
Henning, Natasha
Herbert, Nicholas Graeme
Hinde, Kyle Cameron
Hiscock, Kayleigh Anske
Hlophe, Lindani Melusi
Hlophe, Ndumiso Paul
Hollocks, Stephanie Anne (*cum laude*)
Hooseria, Kyle Kemo
Hounsell, Emma Kate
Hugo, Francois Bruwer
Human, Mari
Hunter, Jason Alaister
Hunting, William Martin Phillip
Hurst, Rebecca Jane
Huysamen, Willem Jacques
Isaacs, Atiyah
Jacobs, Van Zyl
James, Keesha Melanie
Jansen, Cally Julia
Jansen, Hayley
Jenkins, Daniel
Jibson, Tiffany-Leigh
Jonker, Cornelia
Jordaan, Kerry-Ann Pearl
Joshua, Luke Robert
Kasolo, Nomvo Faith
Kat, Caitlin
Kellerman, Mia Rita
Knupp, Julieanne
Kode, Megan
Kordom, Kelly
Koroleva, Elizaveta (*cum laude*)
Kotze, Chloe
Kotze, Miché Charlize
Kreft, Melissa Sabrina
Kusluoglu, Ogulcan
Kuün, Elzaan
Kyndell, Robyn
Laing, Eden Alexandra (*cum laude*)
Langner, Jacques Christiaan (*cum laude*)
Larmour, Savannah
Le Roux, Celine Helene
Le Roux, Jason Alexander
Le Roux, Wilhelm Heinrich (*cum laude*)
Leeke, Robyn Anita
Leite, Jenna
Leondiris, Jordan
Lincoln, Arvida
Lingham, Cindy Faith
Lochner, Ruan Dawid
Lombaard, Nadia
Louw, Nicholas Michael
Louw, Vanessa

Ludick Durandt, Bonita
Lunn-Collier, Robyn (*cum laude*)
Madlala, Mbalentle Thembeke Nobuhle
Magalhaes, Tyler
Mahlangu, Tshegofatso Perseverance
Makamo, Felicity Nosipho
Malan, Lisa
Malema, Thato Kagiso Theodore
Malherbe, Sarel Johannes Marthinus
Manie, Maryam
Manzoni, Datin
Marais, Chantelle
Marais, Kyla
Maroen, Megan Melissa
Martens, Marianne
Maske, Dale Luke
Mason, Brogan Jennifer
McCree, Melissa Grace
Mentor, Julia Patricia
Meyburgh, Suné Cecilia
Meyer, Christiaan Johannes
Mfiki, Litha Abigail
Milligan, Thomas James
Mkalipi, Camagu
Mohorotshe, Godwin Omphemetse
Mokgwebo, Mashilo Ben
Moos, Ameerah
Morkel, Helene-Ann
Morren, Marilize
Morton, Joshua Scott
Mostert, Duan Dawid
Mostert, Hanu
Mostert, Karla
Mostert, Thomas
Motene, Puleng Vanessa
Mouton, Jacobie Christina (*cum laude*)
Mqulwa, Aza Zizipo
Mulder, Ian
Muller, Jared
Muller, Karlin Lize
Munnik, Brandon Liam
Murray, Kayleigh
Myburgh, Burgert Christiaan
Naude, Kevin Curtis (*cum laude*)
Ndlovu, Malcolm Thabo
Nel, Nanneri (*cum laude*)
Nel Lopes, Vasco (*cum laude*)
Nell, Christian Daniel
Niemandt, Corne
Nieuwoudt, Christian Wilhelm
Nkuna, Nsuku Prithnea
Norman, Grace Patricia
Nortje, Pierre Henri
Nortje, Simone-Odette
Ntimane, Bongane
Nunes, Michelle
Nuves, Edgar Siphon

Nxumalo, Kwanele Linda Nokwanda
O'Kennedy, Elizabeth
Oberholzer, Blanche
Oestlund, Imken (*cum laude*)
Ogg, Lauren Ashley
Olivier, Jacques Walter
Oosthuizen, Amberly
Oosthuizen, Kaylynn Jane
Oosthuizen, Micke
Oosthuizen, Nikyle
Orgovanyi, Emily
Ouwkerk, Mick
Payne, Carmen-Marie
Peddie, Rudé Jo-Anne
Pestana, Nicole José De Abreu
Pfeiffer, Nadine Diana
Pietersen, Karla
Poole, Sita Elizabeth Regina
Pownall, Hannah Rebecca Anja
Pretorius, Nicole
Price, Aidan Sinclair
Pritchard, Michaela
Psarrakis, Kiah
Pylman, Demi
Qina, Ayabonga Simbulele Sanelisiwe
Rabe, Annette Evelyn
Rablkessan, Marisa Aria
Rawlins, Maia
Rawson, Shayna Ellen
Raymer, Joshua Peter
Reed, Sidney Leigh
Reitsma, Petruné (*cum laude*)
Rikhotso, Amukelani Charmain
Rimell, Cassia Benji
Rimell, Jayne Catherine Moltano
Rippon, Emily Loma
Robertson, Jamie-Lee
Robertson, Kim
Robinson, Nicholas William
Roboji, Simanye Zenazi
Rodrigues, Tristan (*cum laude*)
Rossouw, Christoffel Jacobus (*cum laude*)
Rothman, Warren Allister
Rowand, Emma Catherine
Rumbelow, Jordan Jess
Rust, Thomas Martin
Saayman, Anandi Arlene
Saayman, Janay Dianay
Sallie, Sarah
Samboer, Dayne
Sampson, Joshua Ethan
Samuels, Telvina
Sanchez, Sebastian
Schaap, Pieter Adrianus
Scheepers, Desire
Scholtz, Karli
Scholtz, Nicholas Edward

Schreüder, Anna Maria
Schwerdtfeger, Kirstie Susan
Senekal, Anna Maria
Sergel, Ashleigh Kelly
Sikushumane, Morina
Sims-Handcock, Jethro Dylan
Sinclair, Kieren John
Slabbert, Caitlyn Victoria
Small, Wesley Jonathan
Smit, Jacobus Hermanus
Smit, Susanna Engela
Smith, Andre
Smith, Casey-Lee Simone
Smith, Devon
Smith, Lauren Joy
Smith, Logan Jason
Smith, Michael-Phillip (*cum laude*)
Spangenberg, Magdel
Splinters, Fowzia
Steenkamp, Marie-Louise (*cum laude*)
Stemmet, Johan Wilhelm
Steyl, Chrystal (*cum laude*)
Storm, Jacobus Johannes
Strachan, Gavin John
Strydom, Annamie
Strydom, Conrad (*cum laude*)
Stuurman, Vernon Malcolm
Surajpal, Taryn Lee
Sutherland, Andrew David
Swart, Deney
Swart, Jaco
Swart, Jana
Taljaard, Hester Magdalena
Tasioulas, Lia Louisa
Teijema, Nina
Teubes, Hesmari
Theart, Emma
Theron, Pieter Francois
Tiegs, Kelsey Anne
Tobias, Micaela
Townsend, Chloé Faye
Trincherro, Dario (*cum laude*)
Truter, Gideon Jacobus
Tseka, Elizabeth Maphoshane
Turner, Anne Mary Margaret
Turner, Caitlin Shelagh
Tyumre, Nathina
Ungerer, Diané
Uys, Janet Mcleisch
Van As, Marizelle
Van Blerk, Daniel
Van der Merwe, Annerie
Van der Merwe, Christiaan Willem
Van der Merwe, Lodewikus Johannes
Van der Walt, Theunitha
Van der Wath, Jana
Van der Westhuizen, Izelle

Van Deventer, Stefan Daniel
Van Greunen, Bianca Liezl
Van Heerden, Hendrik Johannes Otto
Van Lill, Amy Jayne
Van Niekerk, Lijan Ella
Van Nierop, Emma
Van Reenen, Jo-Anne Michelle
Van Rooyen, Elizabeth
Van Rooyen, Temeca
Van Schalkwyk, Christiaan Jacobus
Van Schalkwyk, Emile Rowan
Van Schalkwyk, Jerolize
Van Wyk, Anton
Van Wyk, Minette
Van Zyl, Christoff
Van Zyl, Jean-Pierre
Van Zyl, Magdalena
Vandayar, Jordan
Vanwollegghem, Kay
Venter, Nicole Cindy
Vermeulen, Annecke
Vermeulen, Carlie
Vermeulen, Gerbrand Rossouw
Viljoen, Francois
Viljoen, Jodie
Visser, Annelize
Visser, Benjamin James (*cum laude*)
Visser, Tharene Suzaan
Vlok, Cassius Ray
Von Kühne, Gesa Danielle (*cum laude*)
Voyi, Ayanda
Wahl, Nicole
Walters, Nabeelah
Warner, Grace Michaela
Warren, Kyle Christopher
Waters, Courtney
Watson, Kerin Leigh
Weber, Sean Paul (*cum laude*)
Wessels, Cobus Schrader
Whittaker, Amy-Leigh (*cum laude*)
Wierenga, Kiki Louise
Wightman, Benedict Ross
Willemse, Joelene Adri
Williams, Cassidy Portia
Williams, David Philip Corban
Wolfaardt, Rian Fritz
Wolff, Lauren Jean (*cum laude*)
Yin, Chen-En
Zieff, Daniel
Zwiegelhaar, Su-Ané

KANSELIERSTOEKENNING | CHANCELLOR'S AWARD

Kantoor van die Rektor en Visekanselier Office of the Rector and Vice-Chancellor

JEROME SLAMAT

Dr Slamats het die vorm en inhoud van die nuwe posisie van Uitvoerende Bestuurder: Rektooraat gegee. Hy het die bestuurs- en administratiewe aspekte van die Rektooraat verbeter, en sommige van ons kern sake praktyke op so 'n wyse hervorm dat dit die doeltreffendheid en prosesvloei van die hele uitvoerende bestuurstruktuur beduidend versterk het. In sy vorige rol as die eerste Senior Direkteur: Gemeenskapsinteraksie by die US het hy 'n kennisgebaseerde benadering tot die Universiteit se gemeenskapsbetrokkenheid aangevoer. Hy het homself ook onderskei as brugbouer en hersteller van verhoudings tussen die uiteenlopende gemeenskappe en belangegroepes van die dorp en die Universiteit. Hy verdien die Kanselierstoekenning as erkenning vir sy uitsonderlike loopbaan en sy bydrae tot die bevordering van die US.

Dr Slamats het die vorm en inhoud van die nuwe posisie van Uitvoerende Bestuurder: Rektooraat gegee. Hy het die bestuurs- en administratiewe aspekte van die Rektooraat verbeter, en sommige van ons kern sake praktyke op so 'n wyse hervorm dat dit die doeltreffendheid en prosesvloei van die hele uitvoerende bestuurstruktuur beduidend versterk het. In sy vorige rol as die eerste Senior Direkteur: Gemeenskapsinteraksie by die US het hy 'n kennisgebaseerde benadering tot die Universiteit se gemeenskapsbetrokkenheid aangevoer. Hy het homself ook onderskei as brugbouer en hersteller van verhoudings tussen die uiteenlopende gemeenskappe en belangegroepes van die dorp en die Universiteit. Hy verdien die Kanselierstoekenning as erkenning vir sy uitsonderlike loopbaan en sy bydrae tot die bevordering van die US.





2

11 Desember | 11 December

17:30

Fakulteite

Opvoedkunde

Krygskunde

Faculties

Education

Military Science



2

PROGRAM

- Staan asseblief* 1. Akademiese prosesie kom die saal binne.
- Staan asseblief* 2. Sing van die Nasionale Lied (sien binnekant van die agterblad).
- Sit asseblief* 3. Konstituering deur die Visekanselier.
4. Verwelkoming deur die Visekanselier.
5. Verwelkoming in Xhosa.
6. Voorstelling van kandidate wat kwalifikasies ontvang deur die dekaan van die fakulteit en toekenning van kwalifikasies deur die Visekanselier.
7. Voorstelling van kandidaat vir die Kanselierstoekenning en oorhandiging van die toekenning deur die Visekanselier.
8. Sluiting deur die Visekanselier.
- Staan asseblief* 9. Akademiese prosesie verlaat die verhoog.

PROGRAMME

- Please stand* 1. Entrance of academic procession into the hall.
- Please stand* 2. Singing of the National Anthem (see inside back cover).
- Please sit* 3. Congregation formally constituted by the Vice-Chancellor.
4. Welcome by the Vice-Chancellor.
5. Welcome in Xhosa.
6. Presentation of candidates receiving qualifications by the dean of the faculty and conferment of qualifications by the Vice-Chancellor.
7. Introduction of the candidate for the Chancellor's Award and presentation of the award by the Vice-Chancellor.
8. Closing by the Vice-Chancellor.
- Please stand* 9. The academic procession leaves the stage.

Doktor in die Wysbegeerte Doctor of Philosophy

DUBE, Sithobile Priscilla (Education Policy Studies)

Examining relations between educational policy and higher education students' access to industry in Zimbabwe

This study contributes to the current body of knowledge on graduate employability. A qualitative interpretive approach was used. Twenty participants (university students and managers in industries) were purposively sampled and interviewed. The findings revealed that there is a need for dialogue and collaboration among universities, industries, government and all stakeholders. These parties need to agree on how they can work collaboratively to produce graduates whose potentiality will be enhanced, such as being responsive to higher education challenges and the economy. The universities are expected to provide human capability-enriched programmes that promote employability, job creation and citizenship agency.

Supervisor: Prof Y Waghid

HANEKOM, Pauline Wilna (Curriculum Studies)

Designing a WhatsApp VCoP model to support the effectiveness of blended learning teacher professional learning science short courses

This study makes an original contribution to the previously under-researched interrelated fields of academic support, educational technology and teacher professional learning. Adopting a non-singular reality perspective and a comprehensive conceptual framework, the study employed design-based research methodology and analytical pluralism for data collection and analysis. The findings confirm the effectivity of the use of WhatsApp groups as platform for virtual communities of practice (VCoPs), give insights into the different ways in which different models of VCoPs can support academic and professional skills learning and present 14 design principles for the effective design, implementation and maintenance of such VCoPs.

Supervisor: Prof M Ndlovu

Co-supervisor: Dr S Strydom

HAUTEMO, Aletta Mweneni (Curriculum Studies)

English Wikipedia translation as a communicative task in task-based language teaching pedagogy: A case of Namibian language student teachers

This study examined the translation of English second language content on Wikipedia into Oshikwanyama/Oshidonga first languages. The use of Wikipedia translation as a task-based language teaching task was explored by allowing language student teachers to use language in real-life contexts and interact collaboratively. The study was underpinned by the interpretivist research paradigm, with a qualitative research approach. The study recommends that language teachers use technological tools for guided scaffolding to promote language learning through mediation processes.

Supervisor: Dr M van der Merwe

JACOBS, Carmelita (Educational Psychology)

Parental educational support for adolescents in single-mother families of a low-income community

This study explored educational support to adolescents within single-mother family units. The aim was to disrupt hegemonic understandings of the single-mother family from low socio-economic communities as deficit. This multiple case study adopted a social constructivist paradigm and was conceptualised from a feminist standpoint. The study found that the mothers were stabilising pillars who created supportive home conditions for their children to be resilient and to stay committed to their education. Informal forms of capital included mothers using their own stories to build aspirational capital in their children and to accumulate navigational capital through tapping into community and familial capital in creative ways.

Supervisor: Prof D Daniels

MWALA, Maria Elizabeth (Curriculum Studies)

An investigation into the implementation of the Bachelor of Education (Pre-primary and Lower Primary) curriculum in Namibia

This study investigated the implementation of the BEd Pre-primary and Lower Primary curriculum in Namibian teacher education. Using the theoretical framework of critical social realism, the study explored how structural, cultural and agential conditions interacted to support or constrain the implementation of the curriculum. Data were gathered through documentary analysis and interviews with teacher educators in four former colleges of education in Namibia. The study contributes to knowledge that could be used by the Ministry of Education in Namibia, the University of Namibia and elsewhere to inform future decision making in relation to national curriculum planning and implementation.

Supervisor: Prof M Robinson

NDLOVU, Levi (Curriculum Studies)

Design-based research on students' understanding of quadratic inequalities in a graphing calculator enhanced mathematics environment

This exploratory design-based research (DBR) study investigated the efficacy of the pedagogical use of the graphing calculator to teach mathematics concepts such as quadratic inequalities. The study involved three DBR cycles, each with approximately 20 Grade 11 learners in three different schools. The hypothetical learning trajectory design principles were inspired by the historical development of quadratic inequalities, the realistic mathematics education principles and the theory of instrumental genesis on the use of artefacts (machines/instruments) for educational purposes. The main findings were that the graphing calculator enabled learners to improve their conceptual understanding, visualisation and graphing capabilities of quadratic inequalities.

Supervisor: Prof M Ndlovu

SAUNDERSON, Claudia Priscilla (Educational Psychology)

Narratives of educational and psychological support among black African male students at a historically white university

This qualitative case study drew on critical race theory, co-cultural theory and micro-aggression theory to do an in-depth exploration of black African male students' everyday educational and psychosocial experiences at a historically white South African university. Focus group sessions and individual interviews were conducted with 20 black African male students. The findings of the study demonstrate how race and gender-based micro-aggressions that include negative stereotyping, criminalisation, racial profiling and the questioning of their intellectual abilities impede participants' abilities to thrive at the institution. Participants shared positive experiences about the institution, which included funding opportunities, well-aligned administrative processes, quality of education and supportive lecturers. The study has implications for student support services and higher education transformation.

Supervisor: Prof R Carolissen

SCHOLTZ, Zena Evelyn (Education Policy Studies)

Towards a conceptual framework for the integration of critical thinking into a teacher education curriculum: Addressing some of the educational challenges of South Africa

The study explored notions of critical thinking in relation to policy and pedagogy in initial science teacher education. The research method entailed a conceptual and deconstructive analysis of notions of critical thinking as they are revealed in the literature, dominant South African educational discourse, teacher education policy and Physical Science school curriculum documents. Each subsequent cycle of the analysis resulted in an expansion of a conceptual elaboration. Dimensions of critical thinking identified can potentially inform how science teacher education programmes can operationalise notions of critical thinking in the subject discipline of Physical Science.

Supervisor: Prof Y Waghid

TERBLANCHE, Judith (Education Policy Studies)

Cultivating socially just responsible citizens in relation to university accounting education in South Africa

The aim of this study was to determine whether higher education institutions in South Africa could cultivate and nurture socially responsible democratic citizens, in particular future chartered accountants (CAs). Through Foucault's genealogical analysis and Derrida's method of deconstruction, it was found that critical thinking pertaining to knowledge construction, the decoloniality of the (accounting) curriculum, deliberative encounters as teaching and learning practice, and principles in support of an *ubuntu* philosophy were largely absent from the CA educational landscape. The study proposes the re-education of CAs and renegotiation of the relations and roles of each stakeholder involved in the educational process.

Supervisor: Prof Y Waghid

Doktor in die Wysbegeerte in Krygskunde Doctor of Philosophy in Military Science

GOTYI, Zamikhaya Gladwell (Military Science)

A critical analysis of the role of cooperatives in enhancing the socio-economic development of Chris Hani District Municipality

This study investigated the role of cooperatives in enhancing the socio-economic development of poor communities in the Chris Hani District Municipality. The study found that cooperatives improve socio-economic development, as poor communities in this municipal district have used such cooperatives in job creation, income generation, poverty alleviation, maintaining food security, crime reduction and community empowerment. Apart from this generally positive findings, the study also established that a number of factors, in particular ineffective state support, weaken the functionality of cooperatives. Given this finding, the study proposes a comprehensive and integrated support programme as the framework within which state support should be provided to cooperatives to improve both their profitability and their sustainability.

Supervisor: Dr KI Theletsane

Co-supervisor: Dr WD Erasmus

RAMOKGADI, Baleseng Shadrack (Military Science)

Exploring the military role in promoting durable peace for sustainable development in southern Africa

This study contributes towards theory building in public administration. Existing pieces of legislation, policy framework and scholarly contributions were used to establish the link between military role and durable peace, and to establish those roles that in turn link durable peace and sustainable development. The study further examined existing regional administrative arrangements and related regional defence institutions through a particular focus on the southern African region. Through grounded theory, systems thinking and metaphorical reasoning, the study developed the regional defence administration theory. This theory proposes that civil-military partnership be enhanced to maintain common peace, collective security and sustainable development.

Supervisor: Dr KI Theletsane

Fakulteit Opvoedkunde | Faculty of Education

Magister in die Opvoedkunde in Opvoedkundige Sielkunde Master of Education in Educational Psychology

Coetsee, Gideon Frederick
Van Der Walt, Pieter Malan
Witbooi, Lene Jade

Magister in die Opvoedkunde Master of Education

Akumbi, Saara Taleni (Education Policy Studies)
Clift, Mariana (Curriculum Studies)(*cum laude*)
De Beer, Jo-Mari (Educational Support)
Nieuwoudt, Reyno (Education Policy Studies)
Pedro, Marné (Curriculum Studies)(*cum laude*)
Walters, Miriam Christina (Educational Support)

Honneurs-Baccalaureus in die Opvoedkunde in Onderwysontwikkeling en Demokrasie Bachelor of Education Honours in Education Development and Democracy

Balie, Dwighmegan Jildreth Louise
Benjamin, Fay-Yaadh
Cairncross, Lezandrae Faith
Dannhauser, Brogan Leigh
Engelbrecht, Ninéne
Fourie, Francis Florence
Ganief, Ebrahim
Geldenhuis, Cindy Jean
Jonkers, Andrea Danielle
Kim, Hyerim
Louw, Jeandre Francois
Marais, Kazlyn
Mcdonald, Sheena Lize
Molise, Mathapelo Elizabeth Palesa
Morton, Tamsyn
Nompumza, Mkululi Dakana
Nuugulu, Teofilus
Passenz, Marisa Chame
Qhoji, Amanda
Taff, Lauren Antheana
Willems, Warren Josef
Wyngaardt, Allison Elizabeth

Honneurs-Baccalaureus in die Opvoedkunde in Opvoedkundige Ondersteuning Bachelor of Education Honours in Educational Support

Bagley, Chadwin Anthony
Basson, Marilez Joleen
Bremner, Meagen Mispah (*cum laude*)
Davies, Susan Ann
De Abreu, Tamryn Ann
De Jager, Wihan
Elliott, Jessica Elizabeth
Engelbrecht, Bianca
Fisher, Angelo Lee

Gillespie, Micaela Simone
Koekemoer, Annemarie
Koko, Sisonke
Magama, Hondivenga Regis
Magini, Sibulele
Mitas, Shanna
Neethling, Chané
Ntlangu, Bianca Nicole
Rademeyer, Inge
Schutte, Shelly Jane (*cum laude*)
Smit, Leané
Smith, Celeste Roseanne (*cum laude*)
Sturrock, Lucy Joy (*cum laude*)
Tryon, Tania Adelle
Ward, Bianca Samantha

Honneurs-Baccalaureus in die Opvoedkunde in Grondslagfase- onderrig Bachelor of Education Honours in Foundation Phase Teaching

Andrag, Ané
Arendse, Aimee Barbara-Jean
Bengell, Abi-Lee Terhi
Cloete, Berodize Talia
Fourie, Janine
Gouws, Mieke
Hay, Julie Karen (*cum laude*)
Jacobs, Marli
Janse van Vuuren, Wilmarie
Jephta, Chanté Chanelle
La Marque, Maxine
Lüttich, Belinda (*cum laude*)
Marks, Jamie-Lee
Nieuwoudt, Maria
Schultz, Daniella Schultz
Smit, Emma
Smit, Illoïse
Theron, Carla (*cum laude*)
Van der Merwe, Liezelotte

Honneurs-Baccalaureus in die Opvoedkunde in Taalonderwys Bachelor of Education Honours in Language Education

Bosch, Andrea (*cum laude*)
Cilliers, Emmanuel Andries (*cum laude*)
Coetzee, Roxann
Farley, Jo-Anne
Joubert, Samantha
Matomela, Zimasa
Meyiwa, Zodwa Edith
Steenkamp, Liezel (*cum laude*)
Stenemann, Simone Michaela (*cum laude*)
Vorster, Michael Willem (*cum laude*)

Nagraadse Diploma in Hoër Onderwys in Onderrig en Leer
Postgraduate Diploma in Higher Education in Teaching and Learning

Dowelani, Faith
Mahlako, Kgabo Tryphina
Mahole, Ephraim
Manganyi, Patricia Sipiwe
Matshovhana, Khuliso
Motlhaka, Hlavisio Albert
Mutshaeni, Fhumulani Baldwin
Nekhavhambe, Mutshutshu Michael
Rambau, Musiwa Ivy
Rasifudi, Avhasei Dorothy
Williams, Monique Joy (*cum laude*)

Nagraadse Onderwysertifikaat
Postgraduate Certificate in Education

Abrahams, Joel Austin
Bothma, Adrian Roland
Mentor, Julia Patricia

Nagraadse Onderwysertifikaat in Verdereonderwys- en
Onderrigopleiding
Postgraduate Certificate in Education in Further Education
and Training Teaching

Abasalie, Jane
Abrahams, Souad (*cum laude*)
Adams, Kim
Alexander, Robynne Tayla
Amsterdam, Lee-Ann Lucrechia
Anderson, Kathleen Jennifer
Arendse, Danlin Gwyneth
Arrison, Layla
Baadjies, Patricia Kaylen
Baartman, Shade
Badenhorst, Alicia (*cum laude*)
Bailey, Damian Christian Dewin
Barkhuizen, Alewyn Jacobus
Beylefeld, Mandi
Black, Mia (*cum laude*)
Bodalaji, Seema Sardar Ahmed (*cum laude*)
Boonzaier, Anja (*cum laude*)
Booyesen, Mia Maria
Borman, Danalia Cady (*cum laude*)
Bosch, Elandré (*cum laude*)
Bosman, Divan Anton
Brand, Ilsebeth
Brandt, Rieta-Marie
Brockman, Tristan Chelsea
Brodie, Julia Ann Hilary
Buchan, Reece
Burger, Andrea
Burmeister, Marizaan
Christians, Inge Claudine
Cillié, Nina
Claassens, Jacqueline Suelene
Clinton, Imogen

Cloete, Alida (*cum laude*)
Cloete, Anthea Paulette
Coetzer, Anette
Conradie, Aubrey Dirk
Crombie, Moegammad Toufeeq
Daniels, Graylan Ernest
Daniels, Iman (*cum laude*)
Davids, Kent-Leigh Ethan
Davids, Nabiela
Davids, Regan-Leigh Roberta
Davids, Tayleigh
Dawson, Jessica Megan (*cum laude*)
De Koker, Bianca
De la Bat, Ludwig Frederich
De Lange, Roné (*cum laude*)
De Villiers, Bianca
De Villiers, Jacques (*cum laude*)
De Villiers, Liza (*cum laude*)
De Vries, Jerome Jakobus
De Waal, Sheree-Lee
Du Plessis, Claire Cecilia (*cum laude*)
Du Plessis, Jean-Mari (*cum laude*)
Du Preez, Rike-Mari
Du Toit, Geriann
Dumas, Robyn Nicole (*cum laude*)
Dyabooi, Luwanda
Edson, Daphné Margareth
Engelbrecht, Lize (*cum laude*)
Erasmus, Anri
Erasmus, Valerie
Essop, Ayesha (*cum laude*)
Eyelaar, Dewald
Figland, Ju-Ne Tamrin
Fisher, Jill
Forbes, Debora
Frankfort, Tracey Leanne
Frantz, Cherylee Allan
Freeman, Marli (*cum laude*)
Galant, Michaela (*cum laude*)
Geel, Milano
Geldenhuis, Dina-Mari
Gerber, Jeanne-Alex (*cum laude*)
Gericke, Carien (*cum laude*)
Gildenhuis, Isolde
Gova, Phumeza
Hansen, Elru Samonay
Havenga, Enrique Cristobal
Hendricks, Thea
Horn, Anika
Human, Emrie
Janse van Rensburg, Hanjé
Janse van Rensburg, Jenise
Jansen, Hayley
Jones, Tristan Dylan
Kennedy, Whitney
Kets, Liesel (*cum laude*)
Kreuter, Riani

Krone, David Christopher
 Krüger, Heinrich
 Kruger, Jeanine
 Kruger, Jumari (*cum laude*)
 Kutzer, Kristen
 Lakay, Conray
 Lamprecht, Johanré (*cum laude*)
 Langeveldt, Shannon Rochelle
 Le Roux, Carla
 Leach, Sarah Niven
 Lekas, Anee Ellen
 Lewis, Jene
 Lingenfelder, Magdalena Johanna
 Lombard, Anneri
 Louw, Elizabeth Irene (*cum laude*)
 Magerman, Anri Alycia
 Maggott, Charlene
 Makinana, Abenathi Zongezile
 Makowem, Sarah Ann
 Maloy, Ashwin Franco
 Manuel, Chanté
 Maputuma, Bulelani Simlindile Thabathani
 Marais, Danielle
 Marais, Jozua Daniël
 Marais, Lee-Anne
 Marcus, Cassius Morne
 Marillac, Vershunay Imogene
 Martin, Cameron
 Masikane, Thembelani Blessing
 Mc Ewan, Jurgen Romario
 Mdakane, Mmangaliso Siphesihle
 Meyer, Sylvia (*cum laude*)
 Micheals, Jessica
 Mngconggo, Nomonde
 Moerat, Nuraan
 Moffitt, Megan
 Mortlock, Kimber
 Mostert, Janke
 Msingaphantsi, Zenande
 Mthethwa, Mthobisi Nelson
 Mtotose, Ntandokazi
 Mtshali, Philile
 Nam, Jieun
 Ndwanaya, Kamva
 Ndzendze, Mhlahli Zizile
 Nel, Kirsty Chanté (*cum laude*)
 Nel, Liani
 Newman, Amber Nicole
 Niemann, Ashley
 Nieuwoudt, Inneke Susan
 Nkanti, Amanda
 Nyalungu, Zuzile Prudence
 Nyishimani, Elroy
 Olivier, Alta Olivier (*cum laude*)
 Oosthuizen, Adriaan Johann (*cum laude*)
 Parenzee, Lauren Sadie
 Parry, Eraine Kimberley (*cum laude*)
 Pathan, Shabnam
 Pedro, Cornell
 Pharo, Jáde Elné
 Philander, Litishia Anita
 Pienaar, Rozelle
 Pieterse, Marcelino
 Qamngana, Shaun
 Reynolds, Bianca (*cum laude*)
 Rousseau, Alexander William Nicholas
 Ruiters, Monique Melanie
 Ryklief, Thaakiyah Wentzel
 Sarjoo, Denise
 Schmitz, Michael
 Schnugh, Amoné
 Schutte, Arina
 Seach, Kelly Therené (*cum laude*)
 Seals, Dillon
 Seaward, Shaun
 September, Claudio Franco
 Serfontein, Maria (*cum laude*)
 Shergold-Smith, Tayla (*cum laude*)
 Simpson, Ashley-Kristen
 Slabbert, Janie
 Smit, Lianne Judith
 Smith, Charles Arthur
 Smith, Enrico
 Smith, Monet
 Smuts, Matilda Jacoba Martha (*cum laude*)
 Snyman, Jacoba (*cum laude*)
 Solomon, Lynn-Mari (*cum laude*)
 Stander, Julia Yvette
 Steenkamp, Meagan Helouise Esme
 Steenkamp, Morton Grant
 Swanepoel, Rihaldo
 Swart, Belinda Louisa (*cum laude*)
 Tabane, Pumeza Portia
 Thiersen, Corné Francoise
 Truter, Denise Tarien (*cum laude*)
 Truter, Elsje
 Tyawa, Ntandoyenkosi Thokozani (*cum laude*)
 Udoh, Caleb King
 Uys, André
 Van den Berg, Anneke
 Van den Heever, Nicole
 Van der Merwe, Anandi
 Van der Merwe, Lilani (*cum laude*)
 Van der Merwe, Mari Mildred
 Van Dyk, Anine (*cum laude*)
 Van Heerden, Tuschani Ela
 Van Niekerk, Lomé
 Van Wyk, Margaretha Elizabeth Carolina
 Van Wyk, Michelle Patricia (*cum laude*)
 Verster, Frida
 Visagie, Alana
 Visser, Matthew Justin
 Wessels, Wilma
 West, Emma Lorraine (*cum laude*)

Williams, Tamsyn Nicole
Wium, Annaliese
Zerwick, Wickus Ludwig

**Baccalaureus in die Opvoedkunde (Algemene Onderwys)
Bachelor of Education in General Education**

Adams, Chandre Denise (Intermediary and Senior Phases)
Adams, Lluwellyn Jean-Pierre (Intermediary and Senior Phases)
Alberts, Christel (Intermediary and Senior Phases)
Alberts, Suné (Intermediary and Senior Phases)
Allan, Lynsey Leigh (Foundation Phase)
Anderson, Micaela Jane (Intermediary and Senior Phases)
Andrew, Shannon Frances (Intermediary and Senior Phases)
(*cum laude*)
Appel, Lionel Andrew (Intermediary and Senior Phases)
Arendse, Megan Jane (Foundation Phase)
Armstrong, Sarah Jane (Intermediary and Senior Phases)(*cum laude*)
Arnold, Jaslyne Courtney (Intermediary and Senior Phases)(*cum laude*)
Bagley, Tonita Bianca (Intermediary and Senior Phases)
Balie, Henrietta Magdalena (Intermediary and Senior Phases)
Barnard, Ashleigh Claire (Foundation Phase)
Basson, Liandi (Foundation Phase)(*cum laude*)
Bauer, Jordana Amarita Barbara (Intermediary and Senior Phases)
(*cum laude*)
Beavon, Carly Rose (Foundation Phase)(*cum laude*)
Beerwinkel, Aimée (Intermediary and Senior Phases)
Bennett, Miché Astrolita (Intermediary and Senior Phases)
Bergstedt, Jane Frances (Foundation Phase)(*cum laude*)
Beyers, Marché (Intermediary and Senior Phases)
Blaauw, Robin-Birgit Inge (Intermediary and Senior Phases)
Blignaut, Tamlyn Nicole (Intermediary and Senior Phases)
Blom, Mari Gerda (Foundation Phase)
Borman, Elize-Amaria (Foundation Phase)
Bosman, Kayleigh Elaine (Foundation Phase)
Bosman, Lize (Foundation Phase)
Botha, Zandri (Foundation Phase)
Bothma, Lara (Intermediary and Senior Phases)
Brandt, Stephanie (Foundation Phase)
Briceland, Chelsea Kelly (Foundation Phase)
Bruitjies, Dania Nadine (Intermediary and Senior Phases)
Butler, Judith Nicole (Intermediary and Senior Phases)
Christians, Tyla Shane (Foundation Phase)
Cilliers, Anne-Marie (Intermediary and Senior Phases)
Claasen, Anthea (Intermediary and Senior Phases)
Claasen, Lauren Cathy (Foundation Phase)
Clarke, Amber (Foundation Phase)
Clarke, Nicole Amore (Intermediary and Senior Phases)
Coetzee, Tristan Andrew (Intermediary and Senior Phases)
Compion, Jo-Anine (Intermediary and Senior Phases)(*cum laude*)
Conrad, Azraa (Foundation Phase)
Conradie, Ashley Tamlyn (Intermediary and Senior Phases)(*cum laude*)
Cornelissen, Celeste (Foundation Phase)(*cum laude*)
Cornelissen, Micaela Lucretia (Intermediary and Senior Phases)
Craddock, Victoria Helen (Intermediary and Senior Phases)
Cupido, Fowzia (Intermediary and Senior Phases)
Daniels, Gareth (Intermediary and Senior Phases)
Daniels, Janine (Intermediary and Senior Phases)

Daniels, Zayne Aiden (Intermediary and Senior Phases)
De Bondt, Rikus (Intermediary and Senior Phases)
De Kock, Magdalena Catherina (Foundation Phase)
De Villiers, Juanita (Foundation Phase)
De Wet, Amone (Intermediary and Senior Phases)
De Wet, Tersha (Intermediary and Senior Phases)
De Witt, Laska (Intermediary and Senior Phases)
Diemont, Renalte Ine (Foundation Phase)(*cum laude*)
Dörfling, Amé (Intermediary and Senior Phases)(*cum laude*)
Du Plessis, Lisa (Intermediary and Senior Phases)(*cum laude*)
Du Plessis, Louis (Intermediary and Senior Phases)
Du Plessis, Wilrize-Mari (Foundation Phase)
Du Toit, Anri (Intermediary and Senior Phases)(*cum laude*)
Dube, Nelisiwe Ntombikayise Esther (Foundation Phase)
Elders, Cindy-Lee (Intermediary and Senior Phases)
Els, Celeste Loraine (Foundation Phase)
Erasmus, Milde (Foundation Phase)
Februarie, Nikita Nazara Nicole (Intermediary and Senior Phases)
Felix, Edneil Evan (Intermediary and Senior Phases)
Filmer, Megan (Intermediary and Senior Phases)(*cum laude*)
Fisher, Jessica Laura (Foundation Phase)(*cum laude*)
Fourie, Jane (Foundation Phase)
Fourie, Zelda Elizabeth (Foundation Phase)
Franken, Marisa (Foundation Phase)
Frantz, Alisha Irene (Intermediary and Senior Phases)
Futter, Alexandra Michelle (Intermediary and Senior Phases)
Gaffley, Hayley Danelle (Intermediary and Senior Phases)
George, Rentia Hannah (Intermediary and Senior Phases)
Golotile, Sibongile (Intermediary and Senior Phases)
Gouws, Raechelle Andrea (Foundation Phase)
Greeff, Danél (Intermediary and Senior Phases)
Groenewald, Aimee (Foundation Phase)
Groenewald, Hannah Elizabeth (Foundation Phase)(*cum laude*)
Hans, Zhene Lee (Intermediary and Senior Phases)(*cum laude*)
Harris, Michaela Jane (Intermediary and Senior Phases)
Hartzenberg, Charlene (Intermediary and Senior Phases)
Hellström, Marie-Louise (Foundation Phase)(*cum laude*)
Hendrickse, Mogammad Tauriq (Intermediary and Senior Phases)
Herbert, Whitney Monique (Intermediary and Senior Phases)
Heydenrych, Pearl Kathleen (Foundation Phase)
Hughes, Josie (Foundation Phase)(*cum laude*)
Hulley, Kristen Louise (Intermediary and Senior Phases)
Isaacs, Riejaad (Intermediary and Senior Phases)
Jacobs, Anthia Kaylee (Foundation Phase)
Jacobs, Brandon (Intermediary and Senior Phases)
Janse van Rensburg, Shanie (Intermediary and Senior Phases)
Johnson, Tiffany Nicolle (Intermediary and Senior Phases)
Jordan, Michaela Gabrielle (Intermediary and Senior Phases)
Julius, Donné (Intermediary and Senior Phases)
Julius, Matthew Godfrey (Intermediary and Senior Phases)
Kalis, Courtney Josephine (Foundation Phase)
Kellett, Tarryn Nicole (Intermediary and Senior Phases)(*cum laude*)
Kemp, Josh Daniel (Intermediary and Senior Phases)
Kerbelker, Sakeenah (Intermediary and Senior Phases)
Khan Niazi, Shah Noor (Intermediary and Senior Phases)
Klein, Tatum (Intermediary and Senior Phases)(*cum laude*)
Koks, Shireen Dorianne (Foundation Phase)
Kopke, Done (Foundation Phase)

Kotze, Lida (Intermediary and Senior Phases)
 Kühn, Tehillah (Foundation Phase)(*cum laude*)
 Laubscher, Helen-Mari (Foundation Phase)
 Liss, Jessica Shelby (Foundation Phase)
 Lombard, Karla (Intermediary and Senior Phases)
 Loubser, Shannen (Intermediary and Senior Phases)
 Louw, Angelique Leandre (Intermediary and Senior Phases)
 Ludick, Savannah Skye (Foundation Phase)
 Mahlengela, Melikhaya Melck (Intermediary and Senior Phases)
 Manus, Kristen Austine (Intermediary and Senior Phases)
 Maqeba, Lisolekhaya (Intermediary and Senior Phases)
 Marais, Carmen Bianca (Foundation Phase)
 March, Rachel Amanda (Intermediary and Senior Phases)
 Maritz, Savannah Lauren (Intermediary and Senior Phases)
 Martin, Rozni-Lynn (Intermediary and Senior Phases)
 Mathie, Kathryne-Amy (Foundation Phase)
 McGregor, Kirstin Celia (Foundation Phase)
 McLaren, Charissa (Intermediary and Senior Phases)
 Mfuleni, Zukile (Intermediary and Senior Phases)
 Midgley, Frances Claire (Foundation Phase)
 Moleko, Masego Diane (Intermediary and Senior Phases)
 Mooi, Ronel Alida (Intermediary and Senior Phases)
 Mostert, Gillian Ann-Maree (Intermediary and Senior Phases)
 Naude, Chanel Megan (Foundation Phase)
 Neethling, Courtney (Intermediary and Senior Phases)(*cum laude*)
 Neft, Annuschke (Intermediary and Senior Phases)
 Neitz, Chanté Mone (Foundation Phase)
 Newman, Chad-Leigh (Intermediary and Senior Phases)
 Nigrini, Anneke Louise (Foundation Phase)
 Noble, Ivancá Maryl (Intermediary and Senior Phases)
 Oberholzer, Anne-Marie (Intermediary and Senior Phases)
 October, Daniell Ronde (Intermediary and Senior Phases)
 Oosthuizen, Marthinus Johannes (Intermediary and Senior Phases)
 Orsmond, Matthew George (Intermediary and Senior Phases)
 (*cum laude*)
 Orton, Kyla (Intermediary and Senior Phases)(*cum laude*)
 Papier, Kaylin Lisa (Intermediary and Senior Phases)
 Philander, Suné (Foundation Phase)
 Phillips, Francesca (Foundation Phase)
 Pienaar, Danica (Foundation Phase)(*cum laude*)
 Pieterse, Déney (Foundation Phase)
 Poggenpoel, Melissa (Foundation Phase)(*cum laude*)
 Pote, Genieve (Intermediary and Senior Phases)
 Potgieter, Willene (Foundation Phase)
 Pretorius, Marga (Intermediary and Senior Phases)
 Prins, Jo (Intermediary and Senior Phases)
 Prinsloo, Ancke Mari (Foundation Phase)
 Rodenbach, Jocelyn Eve (Foundation Phase)
 Roelofse, Jolinda (Intermediary and Senior Phases)
 Saal, Duncan Rowan (Intermediary and Senior Phases)
 Saayman, Nicole Movaneen (Intermediary and Senior Phases)
 Sampson, Michaela (Foundation Phase)
 Sass, Erynn Sherilee (Foundation Phase)
 Schabort, Mariska (Intermediary and Senior Phases)
 Scheepers, Rozanne (Intermediary and Senior Phases)
 Scott, Michaela (Foundation Phase)
 Seas, Lucretia Pearl (Intermediary and Senior Phases)
 Shand, Neil Eugene (Intermediary and Senior Phases)
 Shand, Nicole Alexandra (Foundation Phase)
 Shaw, Heather Hamilton (Intermediary and Senior Phases)
 Sheldon, Danielle Sonia (Intermediary and Senior Phases)
 Sims, Ashton Rachel (Intermediary and Senior Phases)(*cum laude*)
 Sixolo, Mandlenkosi Rodgers (Intermediary and Senior Phases)
 Skein, Jardi (Intermediary and Senior Phases)
 Skippers, Melonise Leandra (Intermediary and Senior Phases)
 Smit, Danielle (Foundation Phase)
 Smit, Lienke (Foundation Phase)
 Smith, ChrisMari (Intermediary and Senior Phases)
 Snow, Savannah (Intermediary and Senior Phases)(*cum laude*)
 Snyman, Jana-Lee (Intermediary and Senior Phases)
 Somwahla, Chris (Intermediary and Senior Phases)
 Sparrow, Lindsey-Ann (Intermediary and Senior Phases)(*cum laude*)
 Sterksen, Michael Stephen (Intermediary and Senior Phases)
 Stone, Francis (Intermediary and Senior Phases)
 Stuttaford, Teo Steel (Foundation Phase)(*cum laude*)
 Swartz, Adrian Carlton (Intermediary and Senior Phases)
 Swartz, Lorencia (Intermediary and Senior Phases)
 Swartz, Mahren Ida (Intermediary and Senior Phases)
 Symmonds, Bridget Hannah (Intermediary and Senior Phases)
 (*cum laude*)
 Taljaard, Morné Wilhelm (Intermediary and Senior Phases)
 Terblanche, Chané (Foundation Phase)(*cum laude*)
 Theron, Erica (Intermediary and Senior Phases)(*cum laude*)
 Tottle, Gabriella Joan (Intermediary and Senior Phases)(*cum laude*)
 Van der Kooij, Linda (Intermediary and Senior Phases)
 Van der Merwe, Deoné (Foundation Phase)
 Van der Merwe, Lélaní (Foundation Phase)
 Van der Merwe, Tessa Nicole (Foundation Phase)
 Van der Merwe, Wilandi (Foundation Phase)
 Van Deventer, Julia (Foundation Phase)(*cum laude*)
 Van Leeuwen, Daniëlle Louise (Intermediary and Senior Phases)
 Van Niekerk, Daniëlla (Foundation Phase)
 Van Niekerk, Marita Antoinette (Foundation Phase)(*cum laude*)
 Van Niekerk, Robyn Kaylen-Jo (Foundation Phase)
 Van Rensburg, Lauren Ronique (Intermediary and Senior Phases)
 Van Rooy, Leigh Donnell (Intermediary and Senior Phases)
 (*cum laude*)
 Van Rooyen, Rebecca (Foundation Phase)
 Van Rooyen, Santana (Intermediary and Senior Phases)
 Van Staden, Elizna (Foundation Phase)
 Van Vuuren, Roland Jason (Foundation Phase)(*cum laude*)
 Van Wyk, Janke (Intermediary and Senior Phases)
 Van Wyk, Luceel (Intermediary and Senior Phases)(*cum laude*)
 Van Zyl, Christine (Intermediary and Senior Phases)
 Van Zyl, Jandri (Foundation Phase)(*cum laude*)
 Vermaak, Bianca (Intermediary and Senior Phases)(*cum laude*)
 Viljoen, Nienke (Foundation Phase)(*cum laude*)
 Vincent, Taylor Merlene (Intermediary and Senior Phases)(*cum laude*)
 Visagie, Alicia (Intermediary and Senior Phases)
 Walker, Angela Nicole (Intermediary and Senior Phases)
 Walls, Moghamad Yaseen (Intermediary and Senior Phases)
 Walters, Craig Gothvine (Intermediary and Senior Phases)
 White, Jessica Louise (Intermediary and Senior Phases)
 Windvogel, Michaela Jo-Ellan (Intermediary and Senior Phases)
 Wyngaardt, Lyle Nathaniel (Intermediary and Senior Phases)
 Zeelie, Natasha (Foundation Phase)(*cum laude*)

**Gevorderde Diploma in Opvoedkunde in Senior Fase
Wiskunde-onderwys**

**Advanced Diploma in Education in Senior Phase Mathematics
Teaching**

August, Phaezzle Bremmond
Booyesen, Gary Martin Phillip
Carelse, Constance
Carolison, Riaan Ashley
Damons, Claudio Robert
De Vos, Jolene Semonize
Fanie, Tauhira (*cum laude*)
Fihla, Mthobi Ian
Herman, Gregory Walter (*cum laude*)
Lucas Jaffa, Carmenita
Mathys, Zouniha
Matthee, Megan Alvina
Pietersen, Johein Lee-Roy
Plaatjies, Aythrin Michael (*cum laude*)
Sambo, Beryl Eva
Segers, Mogamat Naasigh
Williams, Xavier Angelo

**Gevorderde Diploma in Opvoedkunde in VOO Wiskunde-
onderwys**

Advanced Diploma in Education in FET Mathematics Teaching

Abrahams, Mogamad Gaalied
Anries, Aletta Carmen
Bougaard, Elizabeth Magdalene
Daries, Kim
Deal, Thagan Henry
Du Plooy, Lee-Ann (*cum laude*)
Hendricks, Saadiqah (*cum laude*)
Jamneck, Deon (*cum laude*)
Kock, Ronald John William (*cum laude*)
Louw, Carmen Whitney (*cum laude*)
Malies, Michelle Allinore (*cum laude*)
Mbongisa, Ntlupeko
Mouton, Jacques Anthony
Ngxwashula, Patience Nolongamo
Ntshokoma, Pinky Ntombentsha (*cum laude*)
Petersen, Magdalene Veronica Ann (*cum laude*)
Pillay, Kellina
Van der Westhuizen, Adri
Wessie, Ricardo Elroy (*cum laude*)
Yame, Mninawe

**Gevorderde Diploma in Opvoedkunde in Intermediêre Fase
Wiskunde-onderwys**

**Advanced Diploma in Education in Intermediate Phase
Mathematics Teaching**

Alexander, Ethon Leigh
Belu, Christopher Monwabisi
Bergmann, Rudie
Carolissen, Avril (*cum laude*)
Dlukulwana, Luvuyo
Du Plessis, Amiera
Franse, John Peter
Fransman, Andrew William (*cum laude*)
Fredericks, Veronica (*cum laude*)
Fredericks, Winston Conrad
Gendy, Waiden Mark
Gqutyelwa, Nqabakazi
Groenewald, Phillipus Petrus Arnoldus (*cum laude*)
Hartnik, Whitney Danielle
Humphries, Alicia Carmen (*cum laude*)
Johnson, Faith (*cum laude*)
Jones, Tazlin Roslind
Julies, Hernus Deon
Kiewiet, Jamie-Lee
Lottering, Martin
Marone, Blanche
Mdange, Ntomboxolo
Modack, Ilhaam (*cum laude*)
Moss, Nomzamo Pumeza
Nqabeni, Stanley Mzwabantu
Ockhuis, Isak Jacobus (*cum laude*)
Olai, Abongile
Saleni, Thabisa
September, Amber Ishelle
Stoutz, Steven George
Syster, Mome Mark
Teyisi, Sanele

ANDER KWALIFIKASIES | OTHER QUALIFICATIONS

Fakulteit Krygskunde | Faculty of Military Science

Magister in die Wysbegeerte

Master of Philosophy

Snyman, Frans Jacobus (Security Management)

Magister in die Krygskunde

Master of Military Science

Ncubukezi, Lundi (Military Geography)

Putter, Andries Petrus (Military Science)(*cum laude*)

Honneurs-Baccalaureus in die Krygskunde

Bachelor of Military Science Honours

Dlamini, Londiwe Fortunate (Industrial Psychology (Mil))

Dlamini, Msawakhe Emmanuel (Organisation and Resource Management)

Kgomo, Violet Mmamoloko (Military Management)

Leach, Jonathan (Military Strategy)

Ledwaba, Thabiso Vincent (Military Geography)

Madalane, Antonette Refilwe (Industrial Psychology (Mil))

Malan, Pieter Andries Rossouw (Military Strategy)

Maselela, Tebogo Lazarus (Military Management)

Mashilo, Bongane (Technology)

Masina, Nonhlanhla Elsie (Military Management)

Matloga, Philemon Moraka (Military History)

Mzimba, Lunga Mohambi Johannes (Public and Development Management (Mil))

Netshivhazwaulu, Thobile Lorencia (Military History)

Ntentesa, Themba (Security and Africa Studies)

Ntsieni, Freddy Mmolawa (Organisation and Resource Management)

Solomons, Timothy Lydhann Dugald (Industrial Psychology (Mil))

Thapedi, Tsatsi Isaac (Organisation and Resource Management)

Thirion, Pieter Willem (Military Geography)

Thwasha, Pamella (Organisation and Resource Management)

Tshivhi, Khodani Sherrif (Technology) (*cum laude*)

Vukea, Matimu Mackdonald (Military Geography) (*cum laude*)

Nagraadse Diploma in Verdedigingstudie

Postgraduate Diploma in Defence Studies

Botha, Steven Rudi

Chinyemba, Martin Kaumba

Els, Anna Helena (*cum laude*)

Farrell, Adrian Marc (*cum laude*)

Hennop, Linette

Karan, lesgaak

Khosa, Maphutha Mikateko

Mostert, Enela Delina

Mukwevho, Azwihangwisi Edith

Mushilu, Joseph Gogadi

Pillay, Caroline Veronica

Slingerland, Claude

Stalmeester, Lee-Ann Verushka

Baccalaureus in die Krygskunde

Bachelor of Military Science

Ajam, Shameema

Au, Moeketsi Eric

Baloyi, Zane Tsakani

Bloem, Thato Vanessa

De Klerk, Petro Gertina (*cum laude*)

Dlamini, Nokwanda Princess

Geel, Andre

Gough, Kyle Ashton

Hanneman, Walter Hugo

Hlakudi, Molohlanye Enos

Kgoadi, Daniel

Khosa, Willy Nkululeko

Lekalakala, Lerato

Magagula, Lindiwe Nurse

Mahlabane, Letlopane Cyril

Makokomale, Choofelo

Malekane, Israel

Manake, Tumisang Pearlton (*cum laude*)

Matladi, Kagiso John

Matlhola, Reabetswe Schlotte

Mavuma, Siphokazi Portia

Mchunu, Siboniso Edward

Melane, Chuma

Miya, Tshepo Joseph

Mkhwanazi, Lungile Dumsile

Mmela, Tsatau Benard

Mngomezulu, Winile Betrice

Moeketsi, Matshidiso Annah

Molao, Martha Tshepo

Morakile, Gomolemo Queen

Moropene, Ngwako Lazarus

Moruane, Tumisang Ratanang

Mphailane, Duncan

Mudau, Lutendo Nadia

Myeko, Thembeka

Ngombane, Olwethu

Ngqulwana, Momelezi

Ngwenya, Sinegugu Dragana

Nkosi, Sifiso Vincent Ismael

Nxumalo, Khethukuthula (*cum laude*)

Penyane, Mosebotse Ribone

Phewa, Nontobeko Ayanda

Pikini, Mpumelelo

Pooe, Thabang Eric

Sangweni, Nombuso Nongcebo Precious (*cum laude*)

Sekori, Brillent

Shaik Goolam, Saif

Sithole, Simphiwe

Skele, Nomakhaya Joyce

Swanepoel, Daniël Frederik

Tselane, Thabang Phillip

Watson, Cheslen Steven

KANSELIERSTOEKENNING | CHANCELLOR'S AWARD

Fakulteit Krygskunde | Faculty of Military Science

OLWOLE DANIËL MAKINDE

Prof OD Makinde is professor in Toegepaste Wiskunde en Berekenings aan die Fakulteit Krygskunde. Hy is die outeur van 10 universiteitsonderrig- en navorsingshandboeke en publiseer 450 eweknie-geëvalueerde navorsingsartikels in hooggeagte vaktydskrifte. Hy tree op as studieleier vir 32 PhD-, 72 MSc- en 200 BSc (Hons)-kandidate in Toegepaste Wiskunde en Berekenings oor die vasteland van Afrika heen. Hy ontvang verskeie toekennings vir navorsingsuitnemendheid, insluitende die NRF-NSTF-navorsingsprys, die Afrika-unie Kwame Nkrumah Kontinentale Wetenskapstoekening, en toekennings vir navorsingsuitnemendheid van die Universiteit van Limpopo, CPUT en die US se Fakulteit Krygskunde. Hy is 'n genoot van die African Academy of Sciences, die International Academy of Physical Sciences en die Papua New Guinea Mathematical Society, en dien as redakteur/redaksielid van verskeie hooggeagte akademiese vaktydskrifte.

Prof OD Makinde is a professor of Applied Mathematics and Computations at the Faculty of Military Science. He has authored and edited 10 university teaching and research textbooks and published 450 peer-reviewed research papers in reputable journals. He has supervised 32 PhD, 72 MSc and 200 BSc (Hons) candidates in Applied Mathematics and Computations across the African continent. He received various research excellence awards, such as the NRF-NSTF Research Award, the African Union Kwame Nkrumah Continental Scientific Award, and Research Excellence Awards from the University of Limpopo, CPUT and SU's Faculty of Military Science. He is a fellow of the African Academy of Sciences, the International Academy of Physical Sciences and the Papua New Guinea Mathematical Society, and served as editor/editorial board member of several reputable academic journals.

3

12 Desember | 12 December

10:00

Fakulteite

Lettere en Sosiale Wetenskappe

BA (Regsgeleerdheid), voorgraadse- en nagraadse programme deur die Drama-, Maatskaplike Werk-, Musiek- en Visuele Kunste Departemente (insluitend PhD)

Alle nagraadse diplomas

AgriWetenskappe

Regsgeleerdheid

Uitsluitend BA (Regsgeleerdheid), BCom (Regsgeleerdheid) en BRekLLB

Faculties

Arts and Social Sciences

BA (Law), undergraduate- and post-graduate programmes by the Departments of Drama, Social Work, Music and Visual Arts (including PhD)

All postgraduate diplomas

AgriSciences

Law

Excluding BA (Law), BCom (Law) and BAccLLB

3

PROGRAM

- Staan asseblief*
- Staan asseblief*
- Sit asseblief*
- Staan asseblief*
1. Akademiese prosessie kom die saal binne.
 2. Sing van die Nasionale Lied (sien binnekant van die agterblad).
 3. Konstituering deur die Visekanselier.
 4. Verwelkoming deur die Visekanselier.
 5. Verwelkoming in Xhosa.
 6. Voorstelling van kandidate wat kwalifikasies ontvang deur die dekaan van die fakulteit en toekenning van kwalifikasies deur die Visekanselier.
 7. Voorstelling van kandidate vir die Kanselierstoekennings en oorhandiging van die toekennings deur die Visekanselier.
 8. Sluiting deur die Visekanselier.
 9. Akademiese prosessie verlaat die verhoog.

PROGRAMME

- Please stand*
- Please stand*
- Please sit*
- Please stand*
1. Entrance of academic procession into the hall.
 2. Singing of the National Anthem (see inside back cover).
 3. Congregation formally constituted by the Vice-Chancellor.
 4. Welcome by the Vice-Chancellor.
 5. Welcome in Xhosa.
 6. Presentation of candidates receiving qualifications by the dean of the faculty and conferment of qualifications by the Vice-Chancellor.
 7. Introduction of the candidates for the Chancellor's Awards and presentation of the awards by the Vice-Chancellor.
 8. Closing by the Vice-Chancellor.
 9. The academic procession leaves the stage.

Fakulteit Lettere en Sosiale Wetenskappe *Faculty of Arts and Social Sciences*

Doktor in die Wysbegeerte **Doctor of Philosophy**

ALBERTYN, Maria Adriana (Drama and Theatre Studies)

Stripping the Border of restorative nostalgia: Using social media discourses to write a research-based play about South Africa's Border War veterans

Numerous plays have been staged about the South African Border War. Some of these plays have been uncritical in their representation of the war and have promoted a kind of restorative nostalgia that glosses over the SADF's past. This study examined contemporary social media discourses on the Border War to generate thematic material for the creation of a new play titled *Bloed en Bodem*. The study concluded that complexity and binary voices can be an antidote to restorative nostalgia. By including voices that both contradict and expose the veteran's views of the past, the master narrative of conscription is destabilised and responsible meaning making can emerge.

Supervisor: Prof P du Preez
Co-supervisor: Prof MS Kruger

DE KLERK, Anneke (Visual Arts)

Telling places: A photographic exploration

This study and exhibition developed a postphenomenological approach to landscape photography practice that questions the technological determinist position in which power relations are skewed towards the viewer, in part due to the nature of the photographic medium. The result is a co-constitutive relation between photographer, camera and environment and therefore a continual process of emplacement, beginning with the act of photographing and continuing into the experience of the exhibition, "Telling Places: A Photographic Exploration". The postphenomenological insights developed throughout this study allow the curatorial practice to become a phenomenological act that tells of, and is telling, of places.

Supervisor: Prof E Viljoen
Co-supervisor: Dr RWE van der Wal

FRANS, Nocawe Rabeka (Social Work)

Social work services offered by non-governmental organisations to households affected by HIV and AIDS

The study engaged with the widespread problem of HIV and AIDS in South Africa. It intensively explored and closely examined how existing government policies and legislation inform and structure social work services offered by non-governmental organisations in the Western Cape to families affected by HIV and AIDS. The findings highlight the challenges that service providers experience to implement government policies and legislation in practice. The study demonstrates the urgent need for government and non-governmental organisations to collaborate closely to offer high-quality services to families affected by HIV and AIDS in line with existing policies and legislation.

Supervisor: Prof S Green

LOUW, Zirk Walter Eon (Music)

The toccatas in the Italian lute and theorbo repertoires of the early seventeenth century: A contribution to the history of instrumental music in the beginning of the Baroque

The toccatas in 17th-century Italian lute and theorbo repertoires have received little attention by music researchers to date. This study fills this gap by not only providing an overview of this important musical repertoire, but by also transcribing a representative selection of these works from the original tablature notation into modern staff notation, thereby making them available for the first time to modern performers. The research provides an alternative view of the toccata as a musical genre and thereby affords new insights into early Baroque music history. This study has already drawn considerable attention from international scholars and performers alike.

Supervisor: Prof WA Lüdemann

Doktor in die Wysbegeerte Doctor of Philosophy

ADEDOJA, Opeyemi Adebayo (Entomology)

Response of plant-pollinator interactions to landscape transformations in the Greater Cape Floristic Region biodiversity hotspot

Insect pollinators worldwide are declining greatly. Without the pollinators, there will be a loss of plant species. It is urgent that conservation strategies for pollinator conservation are put in place, especially in the Cape, which is so rich in many unique species. Threats facing local pollinators include excessive fires, invasive alien plants and climate change. Here, strategies involving the implementation of fire refuges were developed, and are effective. In turn, alien plants must be removed strategically to allow the sun-loving pollinators to thrive. Climate change is a global issue that will likely lead to loss of pollinators at high elevations.

Supervisor: Prof MJ Samways

Co-supervisor: Dr T Kehinde (external)

BARKHUIZEN, Helmien (Wine Biotechnology)

Characterisation of transgenic grapevine ectopically expressing plant defensin peptides

Plants have developed several sophisticated methods to defend themselves against attacks from pathogens and pests or against environmental stresses. One such mechanism relies on defensins, small peptides that form part of the innate defence system of plants. Four defensin peptides were overexpressed in grapevine plants and shown to not only control the economically important powdery mildew pathogen, but to also increase the mortality of mealybugs, an insect pest that is known to be the major vector of the devastating leafroll disease. Grapevine plants that produce the peptides were also shown to cope better with induced water stress under laboratory conditions, providing proof of both biotic and abiotic stress protective properties of the peptides.

Supervisor: Prof MA Vivier

Co-supervisor: Prof M Rautenbach

FLYNN, Trevan (Soil Science)

Digital soil mapping techniques across multiple landscape scales in South Africa

Detailed soil information is essential for the strategic use of natural resources. Activities such as hydrological modeling and soil carbon stock estimation directly rely on detailed soil information. Digital soil mapping entails the spatial prediction of soil properties through statistics. In this study frameworks were created to generate meaningful soil maps at farm and regional scales using existing complex Land Type Survey maps. The frameworks developed will greatly enhance soil information availability in South Africa, which is required for environmental modeling and food security planning.

Supervisor: Dr CE Clarke

Co-supervisor: Dr AB Rozanov

KIETZKA, Gabriella Joy (Conservation Ecology)

Dragonflies as ecological indicators and biodiversity surrogates for freshwater ecosystems

This study assessed the use of dragonflies as bio-indicators of aquatic ecosystem health and aquatic biodiversity. It shows that the interchangeability of using their life stages for assessments is dependent on the spatial scale measured. The study further demonstrates the use of dragonflies as biodiversity surrogates for Ephemeroptera, Plecoptera and Trichoptera. Furthermore, water quality and adult dragonfly diversity were conserved within large-scale conservation corridors within the timber production landscape. The study highlights the value of a constructed urban education pond for dragonfly biodiversity and demonstrates the benefits of dragonflies for good aquatic conservation planning and monitoring in transformed landscapes.

Supervisor: Prof JS Pryke

Co-supervisors: Prof MJ Samways, Dr R Gaigher

MAKEREDZA, Brian (Horticultural Science)

*A study of photothermal damage in Japanese plums (*Prunus salicina* Lindl.)*

High irradiance and high temperature cause heat damage to fruit. In plums, the damage not externally apparent at harvest appears during cold storage internally. Relevant research on plums in this regard was lacking. Micro-climatic and cultural practices were therefore investigated, based on apple research findings. Optimal irrigation, shade nets and early summer pruning generally improved fruit quality and had remedial effects on external damage. Further increasing of irrigation did not improve tolerance, while late summer pruning aggravated damage. Advanced harvest maturity increased susceptibility to internal damage, although the high pre-storage temperatures offered heat curing against cold storage disorders.

Supervisor: Prof WJ Steyn

Co-supervisors: Drs M Jooste (external), M Schmeisser, E Lötze

MUCHERI, Tendai (Agronomy)

Factors influencing inhibition of glutamine synthetase enzyme in grass weeds by glufosinate ammonium under different temperatures

The increasing evolution of weed herbicide resistance seriously hampers crop production. This study provides an alternative to the ever-increasing resistance-prone herbicide glyphosate by using glufosinate ammonium – a post-emergence, contact and broad-spectrum herbicide. The study provides insight into how various environmental and plant factors affect glufosinate ammonium efficacy in controlling ryegrass weeds. Humidity and temperature play a large role in influencing the efficacy of the herbicide. Furthermore, practical implications of results relevant to farmers were investigated and discussed. In addition, the study's investigations perceived the use of phenolic compounds in plant genetics to develop natural glufosinate ammonium-tolerant crops.

Supervisor: Dr PJ Pieterse

Co-supervisors: Prof CF Reinhardt, Dr A Kleinert (external)

MUKAMA, Matia (Food Science)***Optimising ventilated package design for postharvest handling of pomegranate fruit in the cold chain***

Unlike other types of fruit packed in multi-layered ventilated cartons, pomegranate fruit has been historically packed in single-layer cartons, presumably due to the larger fruit size. For the first time, this study designed a new multi-layer ventilated carton for handling pomegranates. Using a combination of a novel virtual prototyping design approach and multi-parameter performance evaluation of physical prototypes, new ventilated cartons with two layers of fruit were developed. Comparative analysis showed that the benefits of the new designs included less fruit cooling time and increased space utilisation of shipping containers. Both carton strength and fruit quality were maintained.

Supervisor: Prof UL Opara
Co-supervisor: Dr AA Tsigie

MUKWEVHO, Vuledzani Oral (Conservation Ecology)***The role of competition and mutualism in shaping microbial communities in Protea flowers***

The *Protea* is an integral part of the ecological functioning of the fynbos ecosystem and the basis of a thriving cut flower industry. *Protea* flowers are colonised by ophiostomatoid fungi that form complex, often mutualistic, interactions with mites, pollinating insects and even birds. This study uncovered complex interactions between different fungi within flowers and showed why these dominate. The study presents evidence that ophiostomatoid fungi can protect *Protea* seeds from detrimental fungi and seed predators. The use of fungal competition studies for investigations into multi-interaction systems was demonstrated and can now be applied to numerous other ecological systems.

Supervisor: Prof F Roets
Co-supervisor: Prof L Dreyer

SMIT, Renate (Entomology)***Postharvest phytosanitary disinfestation strategies using thermal and atmospheric stress: Commodity and insect tolerances***

The main aim of the study was to examine the feasibility of using high temperatures and altered atmospheres, or ethyl formate fumigation, as postharvest phytosanitary treatments to control insect pests while maintaining the quality of export fruit. A physiological study of a key phytosanitary pest, the grain chinch bug, was conducted to better understand its tolerance to thermal postharvest treatments. Commercial application of these alternative phytosanitary treatments will enable the South African fruit export industry to offer improved measures for phytosanitation, as well as expand and access new markets and continue to participate and grow in international trade.

Supervisor: Dr SA Johnson
Co-supervisors: Prof P Addison, Dr M Jooste (external)

WALTERS, Nico Albertus (Food Science)***Comprehensive characterisation of the phenolic composition of Cyclopia pubescens (honeybush)***

The phenolic composition of *Cyclopia pubescens* (honeybush), an endemic South African fynbos plant under threat of extinction, is largely unknown. An HPLC-DAD method of quantification of major phenolic compounds belonging to the benzophenone, xanthone, flavanone and flavone sub-classes was developed and validated. Comprehensive two-dimensional chromatographic separation allowed tentative identification of a large number of minor compounds. In addition, eight phenolic compounds (flavanones, phenolic acids, a flavan, an anisole) were isolated and unambiguously identified. Natural deep eutectic solvents (NADES) were evaluated to improve the extraction efficiency of phenolic compounds. The different NADES selectively extracted stereoisomers, which showed differences in antioxidant activity.

Supervisor: Prof D De Beer (external)
Co-supervisors: Prof E Joubert (external), Dr PJ Williams

WOODS, Michael Josias (Animal Science)***Colouring the grey areas of insect mass production to solidify their use as feed, food and biological control agents***

This study was the first published study to address the total chain involved in the production of insects for feed and food. It addressed the requirement of establishing such a chain by starting with the development of a technique for the determination of the nutrient requirement of various insect species. This information was then used in the formulation of diets and ultimately the mass rearing of insects for various purposes related to food security, including integrated pest management, feed production as well as food production. The study concluded in the final processing of insects for the manufacture of high-quality protein powders, oil and chitin.

Supervisor: Dr E Pieterse
Co-supervisors: Prof LC Hoffman, Drs N Goosen, D Conlong (external)

Doktor in die Regsgeleerdheid Doctor of Laws

KIEWITZ, Leigh-Ann (Public Law)

Trading rights as a novel category of servitudes in South African law

The aim of this study was to determine whether it is possible to recognise trading rights as a category of servitudes, what its nature and content would be if such recognition is possible and under which conditions such servitudes could be registered. The study provides a methodology that courts should follow to ensure that the particular right complies with all the requirements and can therefore be recognised as a servitude in South African law. It furthermore suggests legislation that would enable a more nuanced and balanced approach when attempting to structure these types of trading agreements.

Supervisor: Prof ZT Boggenpoel

MASAKE, Pilisano Harris (Public Law)

A critical consideration of the exclusion of corporate criminal liability for the atrocity crimes under the Rome Statute of the International Criminal Court

The Rome Statute of the International Criminal Court (ICC) limits criminal responsibility to natural persons. It does not provide for corporate criminal liability for crimes against humanity, genocide and war crimes, which exclusion of corporate criminal liability is problematic. Comparative national legal doctrine, international human rights law and regional criminal justice inform the proposed inclusion of corporate criminal liability in the Rome Statute. The study makes proposals regarding the inclusion of the elements of corporate conduct, *mens rea*, as well as an appropriate sentencing framework. The proposed amendments to the Rome Statute will contribute to global corporate governance.

Supervisor: Prof GP Kemp

Fakulteit Lettere en Sosiale Wetenskappe *Faculty of Arts and Social Sciences*

Magister in die Wysbegeerte

Master of Philosophy

Gey van Pittius, Nicolaas Claudius (Science and Technology Studies)
(*cum laude*)

Mirira, Munamoto (Monitoring and Evaluation Methods)(*cum laude*)

Mnyaka, Mkhululi (Monitoring and Evaluation Methods)

Moqobane, Tokelo Amos (Monitoring and Evaluation Methods)

Oliphant, Neliswa Wendy (Monitoring and Evaluation Methods)

Steyn, Adele (Applied Ethics)(*cum laude*)

Magister in Maatskaplike Werk

Master of Social Work

Brandt, Shanell Cathleen (Social Work)

Daniels, Robertah Sarah-Ann (Social Work)(*cum laude*)

Gibbons, Emma Jade (Social Work)

Ndou, Nobuhle (Social Work)

Pistor, Marissa (Social Work)

Magister in die Musiek

Master of Music

Fick, Cornelis Uys Lourens

Krüger, Heinrich

Baccalaureus in die Wysbegeerte

Bachelor of Philosophy

Hale, Francis

Rhodes, Joseph Martin

Sono, Tshimologo Topo

Tharage, Nkhumeleni Victor

Van Breda, Vincent Arthur

Zuma, Musa Reginald

Honneurs-Baccalaureus in die Lettere en Wysbegeerte

Bachelor of Arts Honours

Badenhorst, Jeannette (Drama and Theatre Studies)

Bradshaw, Mirella Elizabeth (Drama and Theatre Studies)(*cum laude*)

Jepthas, Veronique Bianca (Drama and Theatre Studies)

Joubert, Timonique (Drama and Theatre Studies)(*cum laude*)

Kotze, Margo (Drama and Theatre Studies)(*cum laude*)

Le Roux, Michelle (Drama and Theatre Studies)

Oosthuizen, Elmé (Drama and Theatre Studies)

Smit, Nina (Drama and Theatre Studies)(*cum laude*)

Smith, Carla (Drama and Theatre Studies)

Swartz, Devonecia Angellica (Drama and Theatre Studies)

Van Diemel, Emily-Rose Vianca (Drama and Theatre Studies)

Van Heerden, Willem Conradie (Drama and Theatre Studies)

Honneurs-Baccalaureus in die Musiek

Bachelor of Music Honours

Daniels, Jessica (*cum laude*)

Oosthuizen, John Ernst (*cum laude*)

Theron, Marlise (*cum laude*)

Nagraadse Diploma in Toegepaste Etiek

Postgraduate Diploma in Applied Ethics

Robberts, Frans Jackop Lourens

Nagraadse Diploma in Kennis- en Inligtingstelselbestuur

Postgraduate Diploma in Knowledge and Information Systems Management

Conradie, Liezel (*cum laude*)

Dama, Sinoxolo (*cum laude*)

Dhlamini, Thulani Sam

Dingayo, Nomaza

Ditabo, Abigail Boitumelo

Goshana, Bonga

Gubesa, Zwelethu

Jambwa, Caroline

Leibrandt, Cavin Franklin

Magagula, Raymond Sgcino

Makechemu-Dhlamini, Shungunehokwadi Tarisiro (*cum laude*)

Mangotlo, Winnie

Mashilo, Pauline Galeboe

Narismulu, Gonasagree

Ngizi, Patience

Nieuwoudt, Leon

Nyoni, Kwanele

Papier, Lucille Sharon (*cum laude*)

Samson, Grant William (*cum laude*)

Van Staden, Alet

Williams, Jeffrey John (*cum laude*)

Nagraadse Diploma in Interkulturele Kommunikasie

Postgraduate Diploma in Intercultural Communication

Jepthas, Angelo Charl

Mapumulo, Cedric

Nangombe, Ndapewa Nuusiku

Xeketwana, Nobesuthu

Nagraadse Diploma in Vertaling

Postgraduate Diploma in Translation

Du Plessis, Dorette (*cum laude*)

Baccalaureus in die Lettere en Wysbegeerte

Bachelor of Arts

Afrika, Wyatt Ralph

Apollus, Robyn Eleanor

Appelcryn, Cara-Chanel

Baard, Helena

Bekker, Ansulette

Breetzke, Matthew Charles

Brits, Alexander Ogilvie

Burnett, Stephanie

Crocker, Grace Kathleen Abrahams (*cum laude*)

Dachs, Emma Catherine (*cum laude*)

Daniels-Wilson, Danica Megan
De Bruyn, Abri Jeremy
De Jager, Anjonè
De Sousa, Carla
De Waal, Marquerite
Dehosse, Claire Mathilde
Du Plessis, Frans Paulus
Esterhuysen, René Elizabeth (*cum laude*)
Fairweather, Jade Wanda
Fortuin, Tylo
Gossayn, Tyler-G
Grobbelaar, Megan
Hill, Andrew Kevin
Hindley, William Robert
Hodgkinson, Jessica Anne
Hofmeyr, Andrea
Holder, Alene Mari (*cum laude*)
Joubert, Lindi
Kindo, Kaylinn Alicia
Kotze, Wynand
Kruger, Arné
Kruger, Ayden (*cum laude*)
Magingxa, Thandolwethu Malinga
Malan, Rousseanne
May, Alexandra Annelie
Meyer, Megan
Montgomery, Jaime Marie
Myburgh, Melissa
Nell, Christine
Oates, Celine Tyla
Oosthuizen, Anmari Magdalena
Opperman, Emile Willem
Peacocke, Megan
Phatlane, Thato
Pienaar, Andrea
Ramchunder, Tiyana (*cum laude*)
Rankin, Claire (*cum laude*)
Ray, Clarischa Channel
Reinke, Ame
Rubesch, Justine Ashley
Saunders, Irene Enid
Scheepers, Reini
Seymour, Alistair James
Sims, Danté Charlie
Spies, Carla
Steenkamp, Lezanne
Stevenson, Nina Chloe
Taljaard, Wian
Van der Merwe, Kyla
Van Eeden, Christiaan Fourie
Van Wyk, Jubilee
Van Zyl, Jarren Jonty Wade

Venter, Abigail
Vermaak, Savannah
Waltham, Luke Anthony

**Baccalaureus in Maatskaplike Werk
Bachelor of Social Work**

Abrahams, Kayla Roux
Adams, Shamice Valerie Doreen
Adonis, Joy Dawn
Afrika, Ulen
Arendse, Ammaarah
Barnes, Waseema
Benxa, Viwe
Campbell, Ali Jordan
Cloete, Clarenise Camen
Constabel, Nolene
Cyster, Lauren Jade
Davids, Bronwyn
De Klerk, Dominique Leanne
De Ruiter, Melany Sonet
De Villiers, Monique
Fayo, Xola Lucas
Fredericks, Erin Leigh
Gabelana, Bagcine Nondwe
Isaacs, Laylaa
Jeftha, Angelique
Konstabel, Laverne Angela
Lubbe, Jana
Mahlomuza, Thembi Francinah
Mathibeli, Maria Hlobohang
Meiring, Anmari
Michaels, Chanelle Chanté
Moerat, Farah
Muller, Wendy Johanelene
Murray-Lerm, Karla Anita
Nathan, Tamlyn
Nel, Lésa
Parks, Robyn Bernadette
Pieterse, Sherma Angelique
Potgieter, Loandrie (*cum laude*)
Raubenheimer, Denaline Paulette
Rosendal, Samantha Daylia
Ruiters, Sposethu
Schietekat, Carlene Nicole
Seunang, Bulelwa Princess
Silo, Athenkosi
Smith, Amber Lauren
Steyn, Alicia
Stubbs, Miceala Mary-Lynn
Thulare, Pulana Petronela
Van der Merwe, Clarine
Van Rensburg, Lusinda Jocli-Ann

Wagener, Gisela Hilliard
Wolfaardt, Katelyn Anne (*cum laude*)
Wonderlik, Bemelee Delme

Baccalaureus in die Musiek
Bachelor of Music

Beaven, Alexandra Georgina
Bothma, Tiaan Anton
Classen, Kim Jody
Davids, Simone Nicole
De Jager, Jacobus Josephus (*cum laude*)
Fourie, Johanna Jacoba
Jordaan, Phillip Malan
Kreft, Anna-Ingeborg
Lambrechts, Cisar
Lawrence, Amanda Anne
Lee, Seung-Ree
Martens, Elizabeth
Miles, Amy Kay
Oberholtzer, Meyrick
October, Janine Cathy
Pretorius, Nastassja Justine
Van Dyk, Jana-Mari
Van Renssen, Carmen Alinde (*cum laude*)
Venter, Van Wyk
Wesley-Smith, Lauren Frances (*cum laude*)
Williams, Cameron Trevor (*cum laude*)
Williams, Craig Walter
Wolfswinkel, David Evan (*cum laude*)
Zoio, Katya Izabella

Baccalaureus in die Lettere en Wysbegeerte in Visuele Kunste
Bachelor of Arts in Visual Arts

Alexander, Lushane Mark (Visual Communication Design)
Armstrong, Kirsten Jenna (Creative Jewellery and Metal Design)
Bekker, Larissa (Visual Communication Design)
Bester, Lourens Petrus (Fine Arts)(*cum laude*)
Borcherds, Elye Etienne (Fine Arts)(*cum laude*)
Botha, Caro Keuler (Visual Communication Design)
Botozo, Lwandiso (Fine Arts)
Brand, Nicole (Visual Communication Design)
Bruwer, Suzanne Maude (Creative Jewellery and Metal Design)
Child, Aidan John (Visual Communication Design)
Cowley, Zandr  (Visual Communication Design)
Davis, Bianca Leigh (Visual Communication Design)
De Swardt, Mir  (Visual Communication Design)
Du Bruyn, Marizan (Visual Communication Design)
Edwoods, Mitchell (Visual Communication Design)
Fletcher, Saarah Anne (Visual Communication Design)
Fraser, Jessica Anne (Visual Communication Design)
Groenewald, Joy (Fine Arts)
Heyns, Luandri (Fine Arts)
Hurrell, Kyla Christie (Visual Communication Design)
Jones, Robin Lambert (Visual Communication Design)
Kirsten, Lizelle (Fine Arts)
Koen, Josephine Suseth (Visual Communication Design)
Koopstad, Karla Abigail (Fine Arts)

Lamb, Shannon Karina (Fine Arts)
Lehr-Sacks, Maia (Fine Arts)(*cum laude*)
Martin, Tayla Shayle (Visual Communication Design)
McBride, Philippa Lauren (Visual Communication Design)
Motsie, Kerona (Visual Communication Design)
Naik, Ruhini (Fine Arts)
Neethling, Mari  Marguerite (Fine Arts)
Nel, Danica K te (Visual Communication Design)
Nothling, Louise (Visual Communication Design)
Oelofse, Kim (Visual Communication Design)
Paslovsky, Darrah (Creative Jewellery and Metal Design)
Pepler, Sarah (Visual Communication Design)
Poliwoda, Megan Patricia (Fine Arts)
Pretorius, Izabeau (Visual Communication Design)
Shepherd, India Dee Beaumont (Creative Jewellery and Metal Design)
Smit, Carina (Fine Arts)
Solomons, Ashley Kelly (Visual Communication Design)(*cum laude*)
Strauss, Rumay (Visual Communication Design)
Str h, Nadia (Visual Communication Design)
Tempelman, Emma Maria (Creative Jewellery and Metal Design)
Theunissen, Nerina (Visual Communication Design)
Venzke, Anrie (Visual Communication Design)
Vidal, Emilie (Creative Jewellery and Metal Design)
Visser, Jana (Fine Arts)(*cum laude*)

Diploma in Praktiese Musiek
Diploma in Practical Music

Cha, Haneulnari
Go, Soobin
Jones, David Mark
Lewis, Aidan Garth
Malan, Eon (*cum laude*)
Van der Westhuizen, Chante

Gevorderde Diploma in Praktiese Musiek
Advanced Diploma in Practical Music

Engelbrecht, Johannes Stephanus (*cum laude*)
Swartz, Damien Marco

Ho r Sertifikaat in Musiek
Higher Certificate in Music

Cilliers, Gabrielle Clarice (*cum laude*)
Floris, Kdan Arren
Hanekom, Jared Andrew
Martin, Stuart Adrian
Oosthuizen, Carmelita
Plaatjie, Melisizwe Mark
Pratt, Elizabeth

ANDER KWALIFIKASIES | OTHER QUALIFICATIONS

Fakulteit AgriWetenskappe | Faculty of AgriSciences

Magister in die Natuurwetenskappe

Master of Science

Dunn, Murray David (Entomology)(*cum laude*)
Greyling, Isabel (Wine Biotechnology)(*cum laude*)
lipinge, Hilaria (Wine Biotechnology)
Russouw, Andre (Plant Pathology)
Strydom, Shannon (Plant Pathology)
Ullah, Sahabne (Plant Pathology)

Magister in die Natuurwetenskappe in Landbou

Master of Science in Agriculture

Abu-Zurayk, Iad (Horticultural Science)
Cronje, Rudolph (Horticultural Science)
De Agrela, Robert Joao (Animal Science)
Du Toit, Derek Auret (Animal Science)
Ehlers, Hendrik Gerhardus Abraham (Agronomy)
Fourie, Elzanne (Oenology)
Kayes, Malcolm Jeremy (Agronomy)(*cum laude*)
Kirsten, Nicola (Horticultural Science)(*cum laude*)
Makuni, Josiah (Agronomy)
Nampasa, Mercy (Animal Science)
Nell, Casper Jan-Hendrik (Agricultural Economics)
Ngejane, Nompumelelo (Soil Science)
Schoeman, Johannes Lodewicus (Agricultural Economics)
Van Aswegen, Mari (Animal Science)
Van der Merwe, Johannes Stephanus (Agricultural Economics)

Magister in die Natuurwetenskappe in Bosbou- en Houtwetenskappe

Master of Science in Forestry and Wood Sciences

Goldsmith, Angel Aphelele (Forest Science)(*cum laude*)
Terblanche, Marius (Forest Science)(*cum laude*)

Magister in die Natuurwetenskappe in Bewaringsekologie

Master of Science in Conservation Ecology

Geenen, Kayla Adriana (Conservation Ecology)
Mbopha, Malukhanye Steven (Conservation Ecology)
Olivier, Adriaan Jacobus (Conservation Ecology)(*cum laude*)
Shumba, Tafadzwa (Conservation Ecology)
Sibiya, Thabang Euginia (Conservation Ecology)
Thomas, Saskia (Conservation Ecology)(*cum laude*)

Magister in die Natuurwetenskappe in Voedsel- en Voedingsekerheid

Master of Science in Food and Nutrition Security

Loxton, Carmen Theresa (Food and Nutrition Security)
Malinga, Fundisiwe Feziwe (Food and Nutrition Security)

Magister in die Natuurwetenskappe in Voedselwetenskap

Master of Science in Food Science

Collins, Carla (*cum laude*)
Naudé, Alexia (*cum laude*)
Riva, Shannon Claudia (*cum laude*)

Honneurs-Baccalaureus in die Natuurwetenskappe

Bachelor of Science Honours

Bosman, Robin Nicole (Wine Biotechnology)(*cum laude*)
Carter, Kayleigh (Plant Pathology)(*cum laude*)
Degenaar, Nadia (Wine Biotechnology)
Jordaan, Stephen Christian (Applied Plant Physiology)
Lombard, Paul Hendrik (Plant Pathology)(*cum laude*)
Meyer, Gustav Ludwig (Wine Biotechnology)
Patel, Vishaal Bandishkumar (Wine Biotechnology)
Petzsch, Irmela (Wine Biotechnology)(*cum laude*)
Pillai, Santhuri (Wine Biotechnology)(*cum laude*)
Smith, Liam Narada (Wine Biotechnology)
Van der Westhuyzen, Julia Giovanna (Plant Pathology)

Honneurs-Baccalaureus in die Landboubestuur

Bachelor of Agricultural Management Honours

Bekker, Francois (Agricultural Economics)
Bester, Adrienne (Agricultural Economics)
Blew, Jake Berrington (Agricultural Economics)
Ferreira, Bernard Espie (Agricultural Economics)
Hayward, Clinton Todd (Agricultural Economics)(*cum laude*)
Helberg, Come Jacob (Agricultural Economics)
King, George Alan (Agricultural Economics)
Le Roux, Pieter Jozua (Agricultural Economics)
Lombard, Christoffel Benjamin (Agricultural Economics)
Price, Vernon Ewan (Agricultural Economics)
Small, David (Agricultural Economics)
Strauss, Jacobus Coenraad (Agricultural Economics)
Van As, Johan Adam (Agricultural Economics)
Van der Linde, Karen (Agricultural Economics)(*cum laude*)
Van Loggerenberg, Frederik Johannes Christoffel (Agricultural Economics)

Nagraadse Diploma in Bosbou- en Houtwetenskappe

Postgraduate Diploma in Forestry and Wood Sciences

Makoto, Munyaradzi

Nagraadse Diploma in Agronomie

Postgraduate Diploma in Agronomy

Blom, Louis Johannes Uys

Baccalaureus in die Natuurwetenskappe in Landbou

Bachelor of Science in Agriculture

Botma, Gieliam (Viticulture and Oenology)
Brown, Mieke (Plant and Soil Science)
Brummer, Rigardt (Agricultural Economics)
Burchell, Frederick Jeff (Animal Science)
Burger, Corinne (Animal Science)
Burger, Jani (Plant and Soil Science)
Cloete, Emile (Agricultural Economics with Animal Science)
Coetzee, Lize Marié (Agricultural Economics)
Coetzee, Michelle (Viticulture and Oenology)
Coldrey, James Frederick (Plant and Soil Science)
Creevy, Bianca Carla (Animal Science)

Danilowicz, Natalia (Viticulture and Oenology)
 Davids, Kyle Mac-Arthur (Viticulture and Oenology)
 De Beer, Carla (Plant and Soil Science)
 De Jager, Desiré (Animal Science)
 De Kock, Jacobus Francois (Viticulture and Oenology)
 De la Harpe, Jean Etienne (Animal Science)
 De Villiers, Tielman Johannes (Agricultural Economics)
 Diepeveen, Rijk (Plant and Soil Science)
 Dippenaar, Elsje Marthina (Viticulture and Oenology)
 Dlamini, Sinqobile Zimisele (Animal Science)
 Dorfling, Tristan Sven (Plant and Soil Science)
 Du Toit, Nina (Plant and Soil Science)
 Du Toit, Theobald Solms (Plant and Soil Science)
 Ebrahim, Sameera Bibi (Agricultural Economics)
 Eksteen, Liana (Animal Science)(*cum laude*)
 Engelbrecht, Mika (Viticulture and Oenology)
 Esterhuizen, Armand (Viticulture and Oenology)
 Geerkens, Willem Hendrik (Animal Science)
 Geldenhuys, Heinrich (Plant and Soil Science)(*cum laude*)
 Gericke, Christian Jacobus (Plant and Soil Science)
 Gibson, Chelsea (Viticulture and Oenology)
 Gleeson, Elizabeth (Animal Science)
 Green, Francois Wayne (Animal Science)
 Grundling, Ingrid (Plant and Soil Science)
 Hanekom, Melt Van der Spuy (Plant and Soil Science)
 Hansen, Steffan Pieter (Plant and Soil Science)(*cum laude*)
 Hartzer, Armand (Viticulture and Oenology)
 Hattingh, Magdaleen (Plant and Soil Science)(*cum laude*)
 Jacobs, Abdul Ghaseeb (Plant and Soil Science)
 Janse van Rensburg, Christian (Plant and Soil Science)
 Jeffrey, Thomas Michael (Agricultural Economics)
 Jordaan, Hannelet (Animal Science)
 Jordaan, Marisa (Animal Science)
 Kitshoff, Wihan (Animal Science)
 Kock, Anika (Plant and Soil Science)
 Kraupner, Kyran Charlton (Plant and Soil Science)(*cum laude*)
 Kruger, Reinhardt (Plant and Soil Science)
 Linnegar, Oliver Charles (Plant and Soil Science)
 Lourens, Corinne (Agricultural Economics)
 Lubbe, Leander (Viticulture and Oenology)
 Maas, Debrecht (Agricultural Economics with Animal Science)
 Mahlalela, Soneni Nokukhanya (Plant and Soil Science)
 Malherbe, David Gerhardus (Agricultural Economics)
 Marais, Ane (Animal Science)
 Marx, Su-Mari (Animal Science)
 Masikane, Nonkululeko Nonsipho (Soil Science and Plant Pathology)
 Matthee, Piet (Plant and Soil Science)
 Michau, Max (Agricultural Economics)
 Morse, Shannon Mary (Viticulture and Oenology)
 Muller, Allison Anne (Animal Science)
 Mundell, Chata (Oenology)
 Myaka, Snethemba Gloria (Animal Science with Agronomy)
 Nel, David Mathys Cristoffel (Agricultural Economics)
 Nel, Teneille (Plant and Soil Science)(*cum laude*)
 Ngindi, Buhle (Plant and Soil Science)
 Nieto Lawrence, Juan Sebastian (Plant and Soil Science)(*cum laude*)
 Oberholzer, Abraham Stephanus (Plant and Soil Science)

Old, Jessica Anne (Animal Science)
 Ordman, Tyla (Plant and Soil Science)
 Pienaar, Jeanne (Viticulture and Oenology)
 Pieters, Narissa Beata (Viticulture and Oenology)
 Ramos, Lucilia (Viticulture and Oenology)
 Rheeder, Johan Paul (Plant and Soil Science)
 Rice, Joshua Arthur (Animal Science)
 Ricketts, Emma Jane (Plant and Soil Science)
 Scheepers, Mari (Animal Science)
 Schoonwinkel, Johannes Arnoldus (Agronomy and Agricultural Economics)
 Schultz, Johan Christiaan Maurer (Animal Science with Agronomy)
 Seals, Dillon (Animal Science)
 Sentso, Nuhaa (Agricultural Economics)
 Slabber, Migael Jozef (Agricultural Economics)
 Smit, Pieter Arnold (Agricultural Economics)
 Smith, Emile Nicolaas (Animal Science)
 Spencer, Katharine Anne (Animal Science)
 Spreeth, Xander (Viticulture and Oenology)
 Sprong, Anmar (Viticulture and Oenology)
 Steyl, Juan (Animal Science with Agronomy)
 Steyn, Juan (Plant and Soil Science)
 Stulting, Lizette (Viticulture and Oenology)
 Theron, Pieter Gert (Animal Science)(*cum laude*)
 Uys, Janlu Kuyler (Plant and Soil Science)
 Uys, Pieter Hendrik Schalk (Animal Science with Agronomy)
 Van Blerk, Karlo Rolf (Plant and Soil Science)
 Van der Merwe, Richelle (Viticulture and Oenology)
 Van Niekerk, Ashley Anzet (Animal Science)
 Van Rhyn, Hendrik Nicolaas (Animal Science)
 Van Schalkwyk, Jude Andrew (Animal Science)
 Van Schalkwyk, Mighael (Animal Science with Agronomy)
 Van Wyk, Den'e (Viticulture and Oenology)
 Van Zyl, Martins Jacobus (Plant and Soil Science)
 Van Zyl, Nadia (Animal Science)
 Van Zyl, Salomon Johannes (Plant and Soil Science)
 Vaughan, Ingrid Ursula (Agricultural Economics)
 Vermeulen, Aletta Magdalena (Animal Science with Aquaculture)
 Wessels, Reinhardt (Plant and Soil Science)
 White, Michaela-Anne (Plant and Soil Science)
 Wolmarans, Dané (Viticulture and Oenology)

Baccalaureus in die Natuurwetenskappe in Bosbou- en Houtwetenskappe

Bachelor of Science in Forestry and Wood Sciences

Dube, Sizwe
 Jacobs, Mj
 Kilian, Tjaart Johannes
 Lategan, Benjamin
 Van Schalkwyk, Johannes Jurgens Dirkse
 Van Staden, Jacques Martin
 Venter, Ane

Baccalaureus in die Natuurwetenskappe in Bewaringsekologie
Bachelor of Science in Conservation Ecology

Basson, Tina
Davids, Tamson Danielle
Havenga, Mikhail Malherbe
Jordaan, Johannes Lodewikus
Nicol, Benjamin Peter
Pooe, Otshepeng Lerato Abigail
Stopforth, Judith-May
Thornton, Sarah Victoria
Vilakazi, Thabo Branden
Vlotman, Carly Bianca

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

Ayres, Kayla Jane
Becker, Line
Bigalke, Mary-Anne Louise
Bisschoff, Jani
Buckton, Candice Eliza
Chafeker, Mujeeb
Claassen, Tiaan
Crous, Sarina
De Wet, Nelmarie Louise
Dippenaar, Carla (*cum laude*)
Ehlers, Cara (*cum laude*)
Eloff, Ruchelle
Gericke, Eric Lukas
Greentree, Amanda
Grobbelaar, Annette
Heckroodt, Pieter Hendrik
Hobson, Suzaan
Holfelder, Natascha
Jack, Tamsyn
Jansen, Johannes Petrus
King, James William
Leach, Jordannah Elizabeth Margaret
Litten, Katherine Heather
Lourens, Stefan
Mahlangu, Lebogang Faith
Makhetha, Selemeng Karabo
Meihuizen, Shannon Olivia
Meyer, Delia Marie
Naidu, Shreya
Nortjé, Chanté (*cum laude*)
Oosthuizen, Marco
Ramkisson, Taish
Riffel, Gameedah
Rust, Trudie
Scheepers, Allen Johan
Schwartz, Marbi (*cum laude*)
Simpungwe, Natasha
Smit, Jonese
Smith, Nicholas
Steenkamp, Anina Corné
Stoffberg, Ineke
Truter, Kara

Turner, Caitlyn Ann
Van der Mescht, Anika (*cum laude*)
Van Ede, Bernelee
Van Graan, Celeste Marlene
Van Schoor, Helene Mijas
Van Wyk, Anri (*cum laude*)
Visser, Linmari
Wessels, Kirsten
Weyer-Henderson, Aimee May

Baccalaureus in Landboubestuur
Bachelor of Agricultural Management

Bester, Mortimer
Brink, Clarke
McQueen, Angus William

Baccalaureus in Landbou
Bachelor of Agriculture

Badenhorst, George
Basson, Jan Tobias Albertus
Basson, Sune
Blignaut, Jean Martin
Bosman, Gerhardus Petrus Christiaan
Branquinho, Joshua Leon
Buys, Daniel Louis
Ceronio, Anique Emily
Cillie, Jacobus Wynand
Davis, Anslin Nowill
De Lange, Wessel Johannes
De Wet, Christoff Jacobus
Delpport, Lizma
Diedericks, Lucas Hardus
Du Bois, Gabriël
Du Preez, Jean Steyl
Du Toit, De Wet
Gerber, Hendrik Hermanus
Gqeba, Bulumko
Grobbelaar, Alwyn Nicolaas
Grobler, Dewald
Hamman, Pieter De Wet
Hartman, Robyn
Hoffman, Francois
Human, Fredrick Thomas
Huskinson, Diaan De Villiers
Janse van Rensburg, Lyzanne
Joubert, Francois Johannes
Joubert, Rene Wiehan
Koekemoer, Francois Petrus
Lategan, Joubert
Loos, Dawn Diana (*cum laude*)
Louw, Gerbrand
Lucas, Kyle
Mouton, Paul
Muller, Elrico Tersius
Ockhuis, Roberto
Prins, Michiel Hendrik
Raspel, Joseph Louwrens

Roux, Willem Petrus (*cum laude*)
Slabbert, Frank Reinier
Snyman, Ingemar Lucian
Snyman, Louis Philippus
Steenkamp, Johannes Christoffel
Swart, Jan Johannes
Telleman, Naomi
Theron, Barend Janse van Rensburg
Theunissen, Alita
Van der Merwe, Johan Gabriel (*cum laude*)
Van der Merwe, Ruan
Van Deventer, Arno

Van Deventer, Petrus Jacobus
Van Deventer, Schalk
Van Geems, Nadine
Van Litsenborgh, Henrico
Van Zyl, Jacobus Daniel Fourie
Van Zyl, Johannes Gideon
Veldsman, Dehan
Viola, Gina
Visser, Ruan De Wet
Wightman, Brandon
Zevenster, Wessel Lourens

Fakulteit Regsgeleerdheid | Faculty of Law

Magister in die Regsgeleerdheid

Master of Laws

Abrahams, Cheraldy Mareelde
Alkan, Helin
Bailey, Kay-Lynn Shabrina
Barkowski, Jasper
Baumgartner, Laura Julia
Bolz, Natascha Sirkka
Brown, Micaela
Bürger, Sarah Maria Gabriele
Castle, Alexander Thomas Mark
Chipfunde, Lydia
Christians, Victoria Catharina (*cum laude*)
Dany, Luisa-Sophie
De Kock, Jessica Anne (*cum laude*)
Dercksen, Juletha-Marie (*cum laude*)
Eitel, Michelle
Foxcroft, Michael John (*cum laude*)
Franke, Rene
Genske, Philip
Goetsch, John-Martin (*cum laude*)
Gous, Shame Calista
Hill, Grant Alastair Gregory (*cum laude*)
Hoerner, Konstantin Albert Maximilian
Hoppe, Yannick (*cum laude*)
Jacobs, Mikayla Cecilia
Kemmerling, Ira
Kirschner, Meike
Kolligs, Lukas Andreas
Kreuer, Moritz
Kupolati, Fiyinfoluwa Oluwatobi
Leisanyane, Leisa Jacob
Mamburu, Khomotso Angel
Masimula, Raymond Mlungisi
Maziya, Nokwanda Takalanga
Millin, Stephan
Mosweu, Boineelo Gosiamang
Nakale, Eveline Tunaelago
Ndlovu, Siyabonga
Ntaka, Nangamso
Oosthuizen, Bermien
Rinderle, Benedikt
Roskell, Georgina Catarina (*cum laude*)
Röwer, Lars Werner
Schrod, Ysabel
Schütte, Anna-Sophie (*cum laude*)
Siewior, Karolina Jozefina
Snyman, Tegan (*cum laude*)
Springer, Leonie Larissa
Theron, Carla
Unger, Matthias Carl Gregor
Van Lill, Conraad
Van Zyl, Kirsten (*cum laude*)
Wiedemann, Max-Julian Walter (*cum laude*)
Wimmer, Luca (*cum laude*)

Baccalaureus in die Regsgeleerdheid

Bachelor of Laws

Agulhas, Kayla Audrey-Marie
Alberts, Ashleigh
Barnard, Anja
Basson, Gideon
Beyers, Nelrine
Botes, Nicolene Louise
Botha, Ferdinand Marthinus (*cum laude*)
Bronstring, Robyn Elizabeth
Campbell, Michael Adam
Conradie, Kristi
Dawson, Savannah Nicole
De Freitas, Danielle Natalie
De Villiers, Trisha
De Wit, Carli
Delport, Maretha
Douglas, Ilze
Douglas, Nicola
Durr, Kyle
Edwards, Sherilee
Engelbrecht, Des-Rose Fiona
Farmer, Laurian Kate
Feher, Gabrielle Elizabeth
Fiff, Dannielle
Franken, Michelle
Ganie, Sarfaraaz
Grundling, Juan Heinrich
Hall, Ashley
Hanekom, Riaan
Haw, Rachel Jane
Haynes, Elzaan Riëtte
Human, Tina
Janse van Rensburg, Herman
Jansen van Vuuren, Carmin
Jonker, Cornelius Jakobus
Kiernan, Natalie Anne
Kiewiet, Chameille Zhaneigh
Kingham, Amy Elizabeth
Knutton, Keeley Marie
Kobilski, Jessica Elizabeth
Koen, Eben
Kotze, Stefanie
Kriel, Ben-Louis
Kruiger, Jeani
Lamprecht, Julia Dorathea
Lattimer, Caitlyn Jane
Leonie, Xiobhan Bioral
Liebenberg, Lillian
Light, Laura
Loubser, Migael
Makarutsa, Sandra Sekayi
Malan, Geor Cillie
Mango, Mbulelo

Mataranyika, Tanatswa Stacey
Meltzer, Jean
Molefe, Thato Nhlakanipho Nkosingiphile
Moosa, Tauriq
Mshumpela, Thandokazi
Muller, Pieter-John
Murray, Ruda
Nel, Simone Monique
Nigrini, Lynn-Maré
Nyathi, Nonjabulo Khwezi
Odendaal, Megan
Oosthuizen, Erika
Padayachee, Tasnim
Pekeur, Andréa Cenay
Pienaar, Mamel
Sampson, Tarryn Jamie
Saunders, Jade-Erin
Scholtz, Kayla Taryn
Seager, Bronwen Catherine
Sheward, Megan
Sloane, Johnathan Nicholas Simon
Smith, Megan
Snethlage, Sarah Jane
Stemmet, Chante Daphne
Stimie, Jacquelize
Stuyck, Monique Marie
Temmingh, Zorada
Troost, Albertus Pierre
Van Graan, Willem Jakobus Bruwer
Van Rooyen, Annika France
Verster, Simej
Viljoen, Anre
Wever, Meri
Yahata, Niki

Nagraadse Diploma in Intellektuele Goederereg
Postgraduate Diploma in Intellectual Property Law

Adams, Kay Dee
Bruwer, Tarine
Goschen, Chanelle
Rama, Nina (*cum laude*)
Tjombe, Ferdinand Kahimise
Visagie, Marshall Adre Danzel

Nagraadse Diploma in Belastingreg
Postgraduate Diploma in Tax Law

Beneke, Simoné Petro
Bester, Liezl
Carstens, Jan Paul (*cum laude*)
Dalhouzie, Elistea
Els, Suzette Louise
Genis, Chrisma Karina
Human, Mégan (*cum laude*)
Lamprecht, Helena Jacoba (*cum laude*)
Marais, Thiam Abrie
May, Neasa Lacen
Nell, Adrian Robert (*cum laude*)
Norval, André-Johan
Sadie, Wilhelm
Stockenstroom, Kelly Ann
Van Schoor, Mereldea Francell

KANSELIERSTOEKENINGS | CHANCELLOR'S AWARDS

Fakulteit Lettere en Wysbegeerte *Faculty of Arts and Social Sciences*

MARLENE VAN NIEKERK

As 'n uitmuntende kreatiewe skrywer ontvang prof Marlene van Niekerk die Hertzogprys vir haar roman *Agaat* in 2005 en weer in 2017 vir haar digbundel *Kaar*. In 2015 word sy benoem vir die Man Booker- internasionale prys in erkenning van haar prestasies op die gebied van die prosa. Sedert 2000 tree prof. Van Niekerk by die US as studieleier van 16 MA-tesisse in Kreatiewe Skryfkunde op. Sy ontvang in 2009 'n eregraad van die Universiteit van Tilburg in Nederland uit waardering vir haar talle prestasies op literatuurgebied.

As an outstanding creative writer, Prof Marlene van Niekerk received the Hertzog Prize for her novel *Agaat* in 2005 and in 2017 for her book of poetry, *Kaar*. In 2015, Prof Van Niekerk received a nomination for the Man Booker International Prize in appreciation of her achievements in fiction. Since 2000, Prof Van Niekerk has completed the supervision of 16 MA theses in Creative Writing at SU. In recognition of her many achievements in the field of literature, the University of Tilburg in the Netherlands awarded an honorary doctorate to Prof Van Niekerk in 2009.

Fakulteit AgriWetenskappe *Faculty of AgriSciences*

LINUS OPARA

Prof Umezuruike Linus Opara is 'n uitgelese professor aan die Departement Hortologie en houer van die DST-NRF Suid-Afrikaanse Navorsingsleerstoel in Na-oestegnologie. Sedert 2009 tree hy op as studieleier vir 38 meestersgraad- en 29 PhD-studente en 11 nadoktorale genote vanuit 14 Afrikalande, op gebiede wat oor sewe departemente en vier fakulteite strek. Prof Opara het reeds meer as 350 artikels in eweknie-geëvalueerde vaktydskrifte, boekhoofstukke en internasionale kongresverrigtinge gepubliseer, tesame met meer as 150 referate by internasionale konferensies, insluitende programredes en gaslesings. Hy is die ontvanger van die Afrika-unie Kwame Nkrumah Kontinentale Wetenskapstoekenning in Lewens- en Aardwetenskappe (2016) en die IMPRESSA-toekenning vanaf die Regional Universities Forum for Capacity Building in Agriculture (2015).

Prof Umezuruike Linus Opara is a distinguished professor in the Department of Horticultural Science and holder of the DST-NRF South African Research Chair in Postharvest Technology. Since 2009 he has supervised 38 master's and 29 PhD students and 11 postdoctoral fellows from 14 African countries in related fields, spanning seven departments across four faculties. Prof. Opara has published over 350 articles in peer-reviewed journals, book chapters and international conference proceedings, together with more than 150 oral presentations at international conferences, including keynote addresses and invited lectures. He is a recipient of the African Union Kwame Nkrumah Continental Scientific Award in Life and Earth Sciences (2016) and the IMPRESSA Award from The Regional Universities Forum for Capacity Building in Agriculture (2015).

Fakulteit Regsgeleerdheid *Faculty of Law*

JACQUES DU PLESSIS

Oor die afgelope 20 jaar het prof Jacques du Plessis hom as 'n toonaangewende navorser op die gebiede van kontraktereg, ongeregverdigde verryking en regsvergeljking gevestig. Hy was besoekende navorser by prominente internasionale navorsingsinstellings in Hamburg en Oxford, en sy werke is plaaslik, deur die Konstitusionele Hof en die Hoogste Hof van Appèl, sowel as internasionaal, deur die Hoogste Hof van die Verenigde Koninkryk, aangehaal. Prof Du Plessis dien op die rade van verskeie internasionale vaktydskrifte, verenigings en navorsingsinstellings, waaronder die Max Planck Instituut vir Vergelykende en Internasionale Privaatreg, en is die houer van 'n aantal toekennings, insluitende 'n Alexander von Humboldt-beurs en die Presidentstoekenning van die Nasionale Navorsingstigting.

Over the past 20 years, Prof Jacques du Plessis has established himself as a leading researcher in the fields of contract law, unjustified enrichment and comparative law. He has held visiting scholarships at prominent international research institutes in Hamburg and Oxford, and his works have been cited both locally, by the Constitutional Court and Supreme Court of Appeal, and internationally, by the Supreme Court of the United Kingdom. Prof Du Plessis serves on the boards of various international journals, societies and research institutions, including the Max Planck Institute for Comparative and International Private Law, and is the holder of a number of awards, including an Alexander von Humboldt scholarship and the President's award of the National Research Foundation.



4

12 Desember | 12 December

17:30

Fakulteit

Ekonomiese en Bestuurswetenskappe

Diploma in Openbare Verantwoordbaarheid, alle nagraadse diplomas (Stellenbosch en Bestuurskool), HonsBCom (slegs Openbare en Ontwikkelingsbestuur), HonsBPA, MPhil (Stellenbosch, Bestuurskool en SPL), MPA, MBA, PhD (Bestuurskool en SPL)

Faculty

Economic and Management Sciences

Diploma in Public Accountability, all postgraduate diplomas (Stellenbosch and Business School), BComHons (only Public and Development Management), BPAHons, MPhil (Stellenbosch, Business School and SPL), MPA, MBA, PhD (Business School and SPL)

4

PROGRAM

- Staan asseblief*
- Staan asseblief*
- Sit asseblief*
- Staan asseblief*
1. Akademiese prosessie kom die saal binne.
 2. Sing van die Nasionale Lied (sien binnekant van die agterblad).
 3. Konstituering deur die Visekanselier.
 4. Verwelkoming deur die Visekanselier.
 5. Verwelkoming in Xhosa.
 6. Voorstelling van kandidate wat kwalifikasies ontvang deur die dekaan van die fakulteit en toekenning van kwalifikasies deur die Visekanselier.
 7. Voorstelling van kandidate vir die Kanselierstoekennings en oorhandiging van die toekennings deur die Visekanselier.
 8. Sluiting deur die Visekanselier.
 9. Akademiese prosessie verlaat die verhoog.

PROGRAMME

- Please stand*
- Please stand*
- Please sit*
- Please stand*
1. Entrance of academic procession into the hall.
 2. Singing of the National Anthem (see inside back cover).
 3. Congregation formally constituted by the Vice-Chancellor.
 4. Welcome by the Vice-Chancellor.
 5. Welcome in Xhosa.
 6. Presentation of candidates receiving qualifications by the dean of the faculty and conferment of qualifications by the Vice-Chancellor.
 7. Introduction of the candidates for the Chancellor's Awards and presentation of the awards by the Vice-Chancellor.
 8. Closing by the Vice-Chancellor.
 9. The academic procession leaves the stage.

Fakulteit Ekonomiese en Bestuurswetenskappe Faculty of Economic and Management Sciences

AJUWON, Oluseye Samuel Sunday (Business Management and Administration)

Performance and financing of micro, small and medium enterprises in Nigeria: Implication of transaction costs and collateral

This study utilised World Enterprise Survey data to analyse the employment generation capability and productivity of micro, small and medium enterprises (MSMEs) in the Nigerian economy. It further explored how transaction costs and collateral constitute constraints to MSMEs' access to finance. The results of the non-parametric variance estimation showed that MSMEs perform better than large firms in employment generation. MSMEs were found to have underperformed in terms of productivity, except in some specialised products. The analysis of transaction costs and collateral showed that high operating costs and collateral value are severe constraints to access to finance by MSMEs. The study recommends alternative financial and collateral arrangements as solutions to the MSME problem.

Supervisor: Prof S Ikhede

Co-supervisor: Dr JO Akotey

BUTLER, Martinus Johannes (Business Management and Administration)

A systems perspective on the contribution of project portfolio management practices towards business and IT alignment

Investment in information technology (IT) has significant implications for modern enterprises. Continued academic interest in the value of IT is the result of contradictory studies about the relationship between investment and performance. A deductive approach was used to present the contribution of project portfolio management practices towards IT value using system dynamics diagrams. Six high-level IT value success factors were identified, including collaborative IT and business planning. From the analysis, three portfolio management practices were shown to have a direct influence on IT value. The importance of leverage points established in literature was confirmed, as well as the quick and efficient resolution of technology failure leading to IT credibility, a strong driver of IT value.

Supervisors: Drs J Morrison, D Le Roux (*external*)

Co-supervisor: Prof M de Klerk

DAKPOGAN, Arnaud Gbenoukpo (Development Finance)

Modelling the effect of disruption to electricity supply on economic growth in Benin

The Beninese electricity sector is one of the most vulnerable in sub-Saharan Africa due to disruption of the imported electricity supply, losses encountered during transmission and distribution and its reliance on oil for electricity production. The study developed a composite index of disruption risk to guide the performance of the sector. It subsequently assessed the effect of electricity losses on economic growth and furthermore assessed the causal effect of negative shocks to electricity supply on economic growth using advanced econometric models. This research has led to valuable insights into support of the national policy framework for electricity in Benin.

Supervisor: Prof E vdM Smit

HAARHOFF, Kosie Jacobus (Public and Development Management)

Stakeholder relationship management as a tool for municipal public value generation: A case study of five municipalities in the Western Cape

The relationships between municipalities and professional stakeholders such as the Auditor General, Eskom, SALGA, the Public Protector, trade unions, universities, NERSA and National Treasury are haphazard and not conducive to local service delivery. The study investigated how municipalities can engage with such professional stakeholders in a manner that will lead to improved service delivery and enhanced public value. Through an analysis of five cases, shortcomings were identified and a framework for institutionalised stakeholder relationship management was designed. The recommendations include a set of practices that will embed stakeholder relationship management in decision making and behaviour. These serve to ensure governance through networks and partnerships, rather than operating in isolation.

Supervisor: Prof APJ Burger

Co-supervisor: Prof C Minderman (*external*)

HIGGINS, Benedict Francis (Public and Development Management)

Global discourse and local politics – the political economy of urban regeneration in Woodstock, Cape Town

This study explored the political economy of urban regeneration in Woodstock, Cape Town. The study was grounded in an epistemology that deflects the ontological dualism proliferating throughout contemporary urban theory. Here, the city was studied in a specificity yet, simultaneously, in a spatial and temporal relationality. Drawing on Foucault and Gramsci, the study excavated and analysed both the archaeology and the genealogy of contemporary urban regeneration in Woodstock. It revealed hitherto overlooked contingencies related to the formation of its discourse. To this end, the study proposes discursive points of entry to affect positive socio-spatial integration.

Supervisor: Dr F Khan

IKHIDE, Emily Edoisa (Development Finance)

Essays on alternative energy options, environment and economic growth: The case study of Nigeria

This study provides some new insights into alternative energy sources, economic growth, development and environmental quality. Using data from Nigeria, it shows that for a developing country, energy supply is essential for growth. However, there is a threshold of per capita income growth beyond which energy use and economic activity adversely affect the quality of the environment. At this stage, the environmental degradation effect of growth is larger than any environmental quality effect and detrimental to any growth and development gains. The study further assessed viable energy options for Nigeria and proposes an energy portfolio optimal for growth and environmental quality.

Supervisor: Prof CKD Adjasi

MANYATHI, Sakhile (Public and Development Management)

The influence of procurement practices on service delivery: An analysis of government legislation–service delivery relationships in South Africa

A hotly debated question among public procurement scholars is whether public procurement prescripts promote or hinder service delivery. Extensive demands for accountability, challenged by continuous attempts at political interference, have resulted in legislative fragmentation, whereby various pieces of legislation in specialised fields were incrementally added as stopgaps, but without a common overarching legal framework. The study found that the absence of a public procurement act, e-procurement systems and a public procurement regulator to oversee public procurement operations compromises procurement effectiveness. Evidence suggests that the independent variable (procurement practices) is causing the dependent variable (service delivery) to slow down. Clean audits as highly celebrated compliance outcome therefore do not translate into improved service delivery as desirable outcome. The study proposes recommendations for correcting this situation.

Supervisor: Prof APJ Burger
Co-supervisor: Dr NL Mortimer

OLOWU, Akinseye Uwem (Development Finance)

Public policy and entrepreneurship performance: The divide and nexus in West Africa

The study addressed a very important topic, especially in the wake of the increased need of employment and growth in African countries. The idea of including gender is also timeless. Literature shows that although women are playing an increasing role in economic activities, their role in business is still lagging behind. Therefore, understanding the role that they play in the interplay between entrepreneurship outcomes and policy is critical. The study demonstrates the need to examine public policy and its effect on entrepreneurial activity. It also measured the efficiency of entrepreneurial process and outcomes and provided interesting insights into the phenomenon in West Africa.

Supervisor: Prof EOC Ijeoma (external)
Co-supervisor: Dr A Fanta

ROBERTSON, Sarah Jane (Business Management and Administration)

The development of a transformative business-driven action learning framework

The aim of the study was to explore how (if at all) individual transformative learning could be embedded into a business-driven action learning framework as part of a management development programme. The research questions were addressed through a narrative inquiry approach using hand-drawn images and in-depth interviews grounded in a constructivist paradigm. The result of this study was a new theoretical framework called Transformative Business-Driven Action Learning (TBDAL), underpinned by guidelines for practice. It is suggested that TBDAL be applied during the design and facilitation of management development programmes to promote the potential for individual transformative learning.

Supervisor: Dr H Le Sueur
Co-supervisor: Dr N Terblanche

VAN BREDA, John Reitz (Public and Development Management)

Methodological agility in the Anthropocene: An emergent, transformative transdisciplinary approach

This study developed a new approach for conducting transdisciplinary research within an African context, which is characterised by informality, relationality, institutional fluidity and widespread poverty. A vast range of literature was integrated, including complexity theory, European literature on transdisciplinarity, African literature on indigenous research methods, phenomenology and incrementalist theories of social change. Using a case study in the Enkanini informal settlement (Stellenbosch) to illustrate the argument, the study successfully developed an agile transdisciplinary research methodology that can empower African researchers to conduct research in ways that are appropriate for Africa's diverse socio-cultural contexts.

Supervisor: Prof M Swilling

VENTER, Carli (Public and Development Management)

Improved network governance in regional and local economic development partnerships: A management strategy

The aim of the study was to overcome operational and performance barriers in regional and local economic development partnerships in South Africa, in keeping with the pragmatic practitioner approach. The objectives were to contextualise the emergence of partnerships within the current legislative and practice framework for regional and local economic development, apply literature and tools from the fields of networks and governance to two cases in practice and provide theoretical groundings for a network management strategy for partnerships. The study demonstrates that network governance theory is not 'the theory of everything', but offers great potential in addressing complex challenges.

Supervisor: Prof P Pillay

Fakulteit Ekonomiese en Bestuurswetenskappe Faculty of Economic and Management Sciences

Magister in die Handelswetenskappe

Master of Commerce

Lekala, Enos Diokeng (Public and Development Management)
Muchena, Ratidzo Ingrid (Public and Development Management)

Magister in die Wysbegeerte

Master of Philosophy

Anfield, Chantelle (Management Coaching)(*cum laude*)
Angula, Elina Nekefo Ngondyodhi (HIV/AIDS Management)
Archery, Colin Sagren (Management Coaching)
Barnard, Riana (Management Coaching)
Barter, Angela Tedda (Environmental Management)
Basi, Edwin Mcebisi (Management Coaching)
Beharrie, Grant Clive (Futures Studies)(*cum laude*)
Bester, Adriaan Ignatius (Futures Studies)
Carstens, Polani (Management Coaching)
Cilliers, Jan Daniel Francois (Management Coaching)(*cum laude*)
Coetzee, Louis Wilhelm (Futures Studies)
Cwele, Fundisiwe Petronella (Sustainable Development Planning and Management)
De Vries, Dina Johanna Adriana (Management Coaching)
Festus, Hilya Niita Naambo (HIV/AIDS Management)
Fielding, Burtram Clinton (Management Coaching)(*cum laude*)
Gaboophiwe, Thembinkosi (HIV/AIDS Management)
Gielink, Pratisha (Management Coaching)(*cum laude*)
Greeff, Aletta Magaretha (Management Coaching)
Hamunyela, Natalia (Environmental Management)
Harry, Mary-Lou (Management Coaching)
Hill, Robert Ian (Management Coaching)(*cum laude*)
Jansen, Grace Merle (Management Coaching)
Kaonde, Eusteria Mwaka (HIV/AIDS Management)
Kopolo, Daisy Sikazwe (Management Coaching)
Kriel, Hendrik Jakobus (Management Coaching)
Langheld, Matthias (Futures Studies)(*cum laude*)
Lerotholi, Seeng Matsiu (Management Coaching)
Lesch, Marlene (Management Coaching)
Mahabir, Deepak Minrajah (Management Coaching)
Makhasi, Yoliswa (Management Coaching)
Makwamaya, Tifare (HIV/AIDS Management)
Mashao, Leonard (Management Coaching)
Masihleho, Sina Anastasia Nomea (HIV/AIDS Management)
Moyo, Enos (HIV/AIDS Management)
Mpesela Mariti, Marethabile Nthabiseng (HIV/AIDS Management)
Msimanga, Zibusiso (HIV/AIDS Management)
Murray, Andrew Charles (Sustainable Development Planning and Management)(*cum laude*)
Mutapanduwa, Susanna (HIV/AIDS Management)
Ndhlovu, Samson (HIV/AIDS Management)
Ndwalane, Sanelisiwe Patience (Management Coaching)
Neill, Patricia Mary (Management Coaching)
Nel, Janine (Futures Studies)(*cum laude*)
Reid, Liezl-Mari (Management Coaching)

Scorer, Nandi Joan (Management Coaching)
Shi, Chunming (Futures Studies)
Siborurema, Esperance (Environmental Management)
Van der Walt, Liesl (Management Coaching)(*cum laude*)

Magister in die Wysbegeerte in Ontwikkelingsfinansies

Master of Philosophy in Development Finance

Badat, Faheema
Baiden, Afua Agyefua
Brintjies, Denver Denzyl
Bwanali, Salim
Chahuruva, Nyaradzo Memory
Chikwature, Selestino
Chimwanda, Chipso Tawanda
Chipeya, Tshegang (*cum laude*)
Davids, Aldeano Jeremy
Dick, Karabo Norman
Grobler, Adriaan Johannes
Gumede, Dumisani
Hamukwaja, Shindambi Petrus
Kafesu, Pelagia Rosena (*cum laude*)
Kambalame, Victoria
Kamho, Ndapandula Naita
Khaemba, Eric (*cum laude*)
Makhubele, Vulani Alethea
Makwaiba, Neo Kelello
Maphumulo, Sinenhlanhla
Maree, Johannes Lodewyk Boshoff
Mashimbye, Lawrence (*cum laude*)
Mkutukana, Simpiwe David
Mnisi, Prudence Miriam
Mocwaledi, Lebogang
Mokoena, Khethang
Molope, Lehlohonolo Nelson (*cum laude*)
Moseki, Mpho Vivian
Muchena, Cecil Shakespear
Mufema, Andrew
Mugangavari, Chamunorwa
Munyala, Demwiinekela Fillemon
Munyoro, Nyaradzo
Mutandwa, Violet Tozvirevaseyi (*cum laude*)
Muzuma, Rosa
Mwinga, Jennety Nswahu
Naswali, Innocent
Nausea, Cliftoline Cathleen
Ndima, Afika Mawande
Ndlovu, Nomfundo
Nhleko, Phumzile Nomsa
Nkambule, Mduduzi Sydwell
Nyaka, Nkosinathi Thando
Nyamazana, Vumiso Kumbuzo
Nyandoro, Leo (*cum laude*)

Nyirenda, Sothini Katundu
Ojo, Babatunde
Omollo, Benedict Abonyo
Ramawela, Manti
Rashikayi, Loveness
Rooifontein, Wickness
Sezuni, Grendah Matakala
Shangula, Toxie Valencia Taakwatha Toini
Shikuyele, Margareth (*cum laude*)
Shipanga, Elizabeth Hilde
Shongwe, Thulani Benedict
Simbwa, Moses
Simela, Langelihle (*cum laude*)
Singh, Sugendree
Spreeth, Thea
Tshivule, Khuliso
Van Heerden, Gabriel Willem Andreas
Zimuto, Wisdom (*cum laude*)

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

Magodyo, Tapiwa Charles
Pretorius, Ettienne
Sehnke, Ron Ren
Slippers, Tommy
Sukati, Lomave Prudence Ntombiyekhaya
Taylor, Alan Leslie

Magister in Publieke Administrasie
Master of Public Administration

Begbie, Karin
Kurtz, Erna Irene
Masolane, Lebohang Johannes
Ndalifilwa, Rosalia Mwafikange
Nel, Zanne Pauline (*cum laude*)
Neshamba, Gelly Chipochedenga
Phala, Seraki Victor
Pienaar, Adri (*cum laude*)
Skhosana, Joseph Sanna
Uusiku, Victoria Jakula

Honneurs-Baccalaureus in die Handelswetenskappe
Bachelor of Commerce Honours

Thomas, Céline Michelle (Public and Development Management)
(*cum laude*)
Van Antwerpen, Rianka (Public and Development Management)

Honneurs-Baccalaureus in Publieke Administrasie
Bachelor of Public Administration Honours

Bardien, Nizaam
Bosch, Letitia Adrienne
Busane, Nontuthuko Patience
Chinasamy-Dampies, Desiree
Dhliwayo, Memory (*cum laude*)
Dinga, Ndilakazi
Farmer, Glenville Juan
Gqokonqana, Lunga

Kabutz, Bettina Sigrun (*cum laude*)
Kassie-Ruplal, Kavitha (*cum laude*)
Locke, Gillian Daphne
Mangubewa, Salome Sally Motibidi
Matthyse, Magon Rensia (*cum laude*)
Meyer, Lydia (*cum laude*)
Mngomezulu, Salakwande William
Moses, Roxanne Melissa
Mtakati, Siphon Samuel
Ndlela, Nobukhosi Sanelisiwe
Niyabo, Zoleka
Petersen, Clinton Mario
Pietersen, Estelle Marolise
Saayman, Rayneze Sunet
Sesinyi, Nancy Keneilwe
Shortles, Enrico
Southgate, Eugene Malchholm
Trussell, Jerome Stephen
Wesso, Regenal Richard

Nagraadse Diploma in Volhoubare Ontwikkeling
Postgraduate Diploma in Sustainable Development

Akpachiogu, Ojiugo Chisom
Bauer, Lauren (*cum laude*)
Bosman, Savanna (*cum laude*)
Buchanan, Tegan Gemma (*cum laude*)
Callaghan, Nina (*cum laude*)
Carstens, Melanie (*cum laude*)
Du Toit, Danika (*cum laude*)
Du Toit, Nicola Hester
Duarte, Camila
Geytenbeek, Michaela Leigh (*cum laude*)
Hall, Ella Rundle (*cum laude*)
Hayes, Katherine Anne (*cum laude*)
Hughes, Tarryn (*cum laude*)
Jackson, Jinty Anne (*cum laude*)
Kangueehi, Gad Murangere
Kasino, Romanus Immanuel
Kirsten, Lara Belinda
Mangundu, Reinhold Mwetutsala Inekela
Martin, Leon Darius
Mbeba, Shirley Mmaseitiso
Michler, Ian Hugh (*cum laude*)
Milton, Nirvana Chavon
Mngxunyeni, Esethu
Morrell, Lauren Eileen (*cum laude*)
Nakkungu, Mildred
Opara, Ikechukwu Kingsley
Pienaar, Madeleine (*cum laude*)
Renault, Tom Gabriel (*cum laude*)
Schulze, Megan (*cum laude*)
Tjale, Lydia Mmapula
Twomey, Nicole Paige (*cum laude*)
Van Eeden, Dona Adine
Vos, Devon

Nagraadse Diploma in Omgewingsbestuur
Postgraduate Diploma in Environmental Management

Adonis, Willan (*cum laude*)
Aplon, Penelope Anthea Monique
Beba, Nwabisa
Esterhuisen, Esmari
Gabela, Nokukhanya Akhona
Gumbi, Bongumenzi
Harris, Henrico
Howard, Emily Ann
Juil, William George
Kambonde, Lisbeth Sindano Nyanyukweni
Kearns, Reesher Hope
Lindeni, Nangamso Musa Zamaleta
Lotter, Stefan
Mnwana, Makwarela
Moabelo, Christina Mamphela
Nelumbu, Naemi Mweshiyola
Ngqulunga, Nobuhle
Nkabinde, Mvuyo Musawenkosi
Numwa, Oliver Mungu
Oliver, Tessa Anne
Rabakali, Takalani Constance
Rozani, Akhona Somila
Shikongo, Taimi Mpingana Ndapanda
Willemse, Denise Stephanie
Williams, Kabelo
Wondim, Tsigereda Tsigereda Wondim
Xala, Xolela
Xotyeni, Akhona Lerato

Nagraadse Diploma in Projekbestuur
Postgraduate Diploma in Project Management

Grootboom, Jethro Jonathan
Kiama, Matumbama Christian
Malaka, Thuto

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

Adjiet, Saarah
Botha, Marco
Henry, Marie Emma (*cum laude*)
Olley, Amy-Faye
Shikwambi, Lineekela
Steenkamp, Hermriqie Jeneal
Tselane, Golekane
Van der Westhuizen, Pieter (*cum laude*)
Williams, Mishka Ashlynn (*cum laude*)

Nagraadse Diploma in Finansiële Beplanning
Postgraduate Diploma in Financial Planning

Adu-Asomaning, Dorothy Grace
Arenz, Andrea Michelle
Basson, Ellene
Beharie, Annastasia
Bell, Duncan Oliver Sutherland
Boonzaaier, Logan

Burger, Jean-Pierre
Chikadaya, Regis
De Jongh, Carl Etienne
De Klerk, Mariaan
De Kock, Cindy
Du Preez, Jaco
Engelbrecht, Marike
Esterhuyse, Daniel Christiaan
Fayd'Herbe, Leanne Susan (*cum laude*)
Geldenhuis, Marcus
Gouws, Anton Johannes
Gouws, Chenine
Griessel, Carli
Hemsley, James Robert
Laker, Simeon Ian
Landsberg, Richard
Lawson, Lance Peter Luigi
Lerch, Kristof
Lötter, Werner
Mandy, Bevan Geoffrey
Mangold, Jana
Marais, Kelly Anne (*cum laude*)
Marra, William Nicholas
Mavuso, Sizeka
Meyering, Marianne
Momborg, Marichen
Morse, Joshua
Mulder, Andries Hermanus
Ngwenya, Valerie Matjoko
Parker, Zianikah
Rowe, Tegan
Salie, Ebrahim
Sieed, Nuraan
Strassberger, Reinhold (*cum laude*)
Swartbooi, Athenkosi
Tembani, Athenkosi
Van Rooyen, Stefan
Van Zyl, Jan Martin
Van Zyl, Marilize
Vincent, Paul
Weir, Mark Charles

Nagraadse Diploma in Bemarking
Postgraduate Diploma in Marketing

Amos, Kendra
Bekker, Michané
Bowmaker, Jocelyn Laura
De Villiers, Marianne
Dedekind, Anna Schon
Godlonton, James Swithin
Hotarek, Simone (*cum laude*)
Jansen van Rensburg, Riza
Khosa, Maambebe Reginah
Louw, Mariet (*cum laude*)
Madisha, Mohau Weyne
Nolan, Shannon Tara (*cum laude*)
Pillay, Joy Catherine

Poci, Michaela
Pretorius, Annika
Pretorius, Jenna Charlotte
Richter, Elsa
Robbertze, Chad Clifford
Sam-Kputu, Robert
Smit, Jonte
Smit, Talitta
Tayob, Taariq Faizul
Van der Merwe, Marzelle Dominique
Veness, Chloe Mae
Verfaille, Simone Anna Maria
Visser, Johanna Jacoba Adriana
Viveiros, Vicki Alexia (*cum laude*)
Williams, Allen Rhys

Nagraadse Diploma in Besigheidsbestuur en -administrasie
Postgraduate Diploma in Business Management and Administration

Accom, Jahwyer
Adriaanse, Alastair
Cele, Nompilo Lydia
Cloete, Adeleen
Dyers, Sune Michelle
Edwards, Edmund Duncan
Geyer, Jonathan Sebastian
Gokul, Ritania
Hendricks, Sylvan Lucien Garret
Madlebe, Nicholas
Muteka, Toini Nuusiku Zimina
Richardson, Lauren Marlene (*cum laude*)
Roote, Michelle
Samuels, Olga Matilda
Xuba, Nomthunzi

Nagraadse Diploma in Toekomsstudie
Postgraduate Diploma in Futures Studies

Assam, Ian Christopher
Avenant, Andrea Laura (*cum laude*)
Beukes, Ryno Van Dyk (*cum laude*)
Calver, Clare
Chirova, Stewart
Clifford, Deborah Ann (*cum laude*)
Coetzee, Marguerite (*cum laude*)
De Kock, Daniel Jacobus
De la Rosa, Sean
Deacon, Dale Patrick (*cum laude*)
Ellis, Michelle
Erasmus, Kristi (*cum laude*)
Hanslo, Rameez
Hilligan, Inge-Marie
Huysamer, Marianne (*cum laude*)
Inglis, Reza
Irvine, Lynne
Joubert, Bernie
Kareli, Motsamai Benedict
Kwinana, Khanyisile Kevin Sinovuyo

Madeira, George Edward
Makwarela, Lindelani
Maree, Burgert Daniel
Martin, Xolile Andrew
McCallum, Wendy (*cum laude*)
Moir, Stuart
Mothiba, Pule John
Muller, Marinus
Mulligan, Cecil Raymond
Muthow, Erik Andy (*cum laude*)
Niehaus, Charles
Nieuwoudt, Tielman James Nicol
Nkabane, Palesa Barbara
Oaten, Mark Darren
Phiri, Amaan Tumbikani
Ramadiro, Siv Helen (*cum laude*)
Robbertze, Nico
Rodrigues, Gregory Antonio
Rogers, Sean Anthony
Scheepers, Heléne
Schoeman, Johannes Philippus
Searle, Susan
Smythe, David Patrick (*cum laude*)
Swanepoel, Johann Christo
Vally, Shueyb Yunus (*cum laude*)
Van Heerden, Maryke Elizabeth
Van Rooyen, Michelle (*cum laude*)
Van Schalkwyk, Gert Petrus (*cum laude*)
Van Staden, Rico
Van Zyl, Martin Louis
Von Ess, Ryan Adrian
Wiese, Jaco Gerhard (*cum laude*)
Williams, Bronwyn Ruth

Nagraadse Diploma in Ontwikkelingsfinansies
Postgraduate Diploma in Development Finance

Akweenda, Naftal Ndangi
Billong, Sandrine Regine
Chitando, Makgolane Kutlwano
Hala, Arnold Abongile
Hendricks, Gayle
Imbili, Annastacia Elizabeth Tunomuinyo Megameno
Katjomuise, Ritumbisa
Kavari, Uahatjiri
Khosa, Vukosi Leroy
Kobue, Morwa Bertha
Kuhanga, Imelda
Mmekwa, Keamogetswe Antoinette
Molefe, Mohau Molobe
Molomo, Lerato Marcelinah
Muzenda, Chenai
Nxumalo, Gcina Patrick
Oberholzer, Ruan Viljoen (*cum laude*)
Pillay, Pramesha (*cum laude*)
Sawyers, David Toluwani (*cum laude*)
Segooa, Segwale James
Sekgwele, Tshogfatso (*cum laude*)

Shiikwa, Leefa
Sindo, Ronel Lois (*cum laude*)
Steenkamp, Marco (*cum laude*)
Stripp, Lewes
Takarinda, Kudzai (*cum laude*)
Tapfuma, Tanatswanashe Sherry
Tjikuua, Illona
Unamaca, Merveille Bootsi
Uuyuni, Wendelinus

Diploma in Openbare Verantwoordbaarheid
Diploma in Public Accountability

Boks, Jan Jacobus
Carstens, Frederik Jacobus Petrus
Ebrahim, Amina
Faber, Lorenzo Fabio
Faul, Marelize
Greyling, Susanna Catharina Eloise
Herwels, Floyd George
Jonathan, Donovan Lawrence
Kilowan, Lizell Lena
Lewis, Gwilym Deon
Phillips, Luline
Tait, Simone
Wakefield, Reese Brett

KANSELIERSTOEKENINGS | CHANCELLOR'S AWARDS

Afdeling Navorsingsontwikkeling | Division for Research Development

MARYKE HUNTER-HÜSSELMANN

Me Maryke Hunter-Hüsselmann, Direkteur: Navorsingsinligting en -strategie in die Afdeling Navorsingsontwikkeling, ontvang die Kanseliers-toekenning in 2019 vir haar uitstekende bydraes tot die bevordering van die US se navorsingsportefeulje. Me Hunter-Hüsselmann speel 'n baanbrekersrol in die daarstelling van innoverende stelsels en bronne om navorsing aan die US te bevorder. Sy koördineer die veelvuldig bekroonde jaarlikse verslag Navorsing aan die Universiteit Stellenbosch, en sorg hiermee dat die US se navorsingsuitsette en -impak sigbaar en toeganklik is vir sy belanghebbendes. Sy speel verder 'n sleutelrol in die daarstelling van navorsingsverwante statistieke en inligting vir strategiese besluitnemingsdoeleindes. Haar toewyding en passievolle ondersteuning van die ontwikkeling en instaatstelling van navorsing aan die US is uitsonderlik en navolgenswaardig.

Ms Maryke Hunter-Hüsselmann, Director: Research Information and Strategy in the Division for Research Development, receives the Chancellor's Award in 2019 for her outstanding contributions to the advancement of SU's research portfolio. Ms Hunter-Hüsselmann plays a ground-breaking role in establishing innovative systems and resources to promote research at SU. She coordinates the multiple award-winning annual Research at Stellenbosch University publication, ensuring that SU's research outputs and impact are visible and accessible to its stakeholders. She furthermore plays a leading role in generating research-related statistics and information for strategic decision-making purposes. Her dedication and passionate support for developing and enabling research at SU are exceptional and exemplary.

Registrateursafdeling | Registrar's Division

PIERRE ROSSOUW

Mnr Pierre Rossouw begin op 1 Januarie 1987 aan die US werk, dieselfde dag waarop die USB hul nuwe kampus betrek. Sedertdien het die USB-programaanbod van 1 MBA en PhD na 13 nagraadse programme gegroei. Mnr Rossouw is nou betrokke by die oprigting van die Bellvista Anneks en Herberg, die instelling van die Onderrig- en Leerkomitee by die USB, die digitalisering van die USB-rooster, die ontwikkeling van die aanlyn assesseringsbeleid en die implementering van afstandstoetsing. Tydens elke akkrediteringsbesoek van EQUIS, AMBA en AACSB word mnr Rossouw se sentrum erken vir uitmuntende dienslewering aan studente. Die Kanselierstoekenning gee aan hom erkenning vir sy bydraes tot die ontwikkeling en verbetering van stelsels en prosesse, sowel as sy bekwame dienslewering oor sy loopbaan heen.

Mr Pierre Rossouw started working at SU on 1 January 1987, on the same day the USB settled on a new campus. Since then, the USB programme offering has grown from an MBA and PhD to 13 postgraduate programmes. Mr Rossouw has been involved in the establishment of the Bellvista Annex and Hostel, the establishment of the Teaching and Learning Committee at the USB, the digitalisation of the USB timetable, the development of the online assessment policy and the implementation of remote proctoring. During each accreditation visit by EQUIS, AMBA and AACSB, Mr Rossouw's centre is acknowledged for excellent service delivery to students. The Chancellor's Award acknowledges him for his contributions to the development and improvement of systems and processes, as well as for his competent service delivery across his career.

Fakulteit Ekonomie en Bestuurswetenskappe - Bestuurskool Faculty of Economic and Management Sciences - Business School

GRETCHEN ARANGIES

Me Arangies se loopbaan by die US begin in 1989 in die Afdeling Menslike Hulpbronne, waar sy 'n leidende rol speel om dié afdeling van 'n transaksionele tot 'n strategies transformerende omgewing by die US te lei. In 2008 word sy aangestel as direkteur van Menslike Hulpbronne (Operasioneel). In dieselfde jaar verwerf sy haar MBA cum laude aan die USB. In 2012 verander haar loopbaanfokus toe sy aangestel word as bedryfsdirekteur by die USB en die Bellville Park-kampus. Die operasionele sukses en implementering van 'n aggressiewe groeiplan by die USB is grootliks te danke aan haar verstommende werksetiek. Gedurende haar loopbaan dien me Arangies in die US Raad, die Raad se Menslike Hulpbronnekomitee, as 'n trustee van die US-aftredesfonds en as voorsitter van die Raad se Disiplinêre Komitee. Dit is byna onmoontlik om voldoende erkenning te gee aan 'n professionele personeelid met die operasionele vermoëns, akademiese insig en natuurlike leierskapskappe waarvoor me Arangies beskik.

Having started her career in SU's Human Resources Division in 1989, Ms Arangies played a key role in leading this division from a transactional to a strategic transformational role at SU. In 2008 she was appointed director of Human Resources (Operations) and, in the same year, obtained her MBA degree cum laude from the USB. Changing her career focus in 2012, she was appointed as director of Operations at the USB and Bellville Park Campus. The operational success and implementation of an aggressive growth plan at the USB can be attributed largely to her enormous work ethic. During the course of her career, Ms Arangies was an active member of the SU Council, served on the Human Resources Committee and the Board of Trustees of the SU Retirement Fund, and chaired the Council Disciplinary Committee. One can hardly give enough recognition to a professional staff member with such operational capabilities, academic insight and natural leadership qualities as Ms Gretchen Arangies.



5

13 Desember | 13 December

10:00

Fakulteit

Lettere en Sosiale Wetenskappe

BA (uitsluitend Drama, Regsgeleerdheid en Visuele Kunste), HonsBA (uitsluitend nagraadse programme van die Departemente Drama, Maatskaplike Werk, Musiek en Visuele Kunste), MA (uitsluitend nagraadse programme van die Drama, Maatskaplike Werk, Musiek en Visuele Kunste), PhD (uitsluitend nagraadse programme van die Drama, Maatskaplike Werk, Musiek en Visuele Kunste)

Faculty

Faculty of Arts and Social Sciences

BA (excluding Drama, Law and Visual Arts), BAHons (excluding post-graduate programmes by the Departments of Drama, Social Work, Music and Visual Arts), MA (excluding postgraduate programmes by the Departments of Drama, Social Work, Music and Visual Arts), PhD (excluding postgraduate programmes by the Departments of Drama, Social Work, Music and Visual Arts)

5

PROGRAM

- Staan asseblief*
- Staan asseblief*
- Sit asseblief*
- Staan asseblief*
1. Akademiese prosessie kom die saal binne.
 2. Sing van die Nasionale Lied (sien binnekant van die agterblad).
 3. Konstituering deur die Visekanselier.
 4. Verwelkoming deur die Visekanselier.
 5. Verwelkoming in Xhosa.
 6. Voorstelling van die eredoktorandus en toekenning van die eregraad deur die Visekanselier.
 7. Voorstelling van kandidate wat kwalifikasies ontvang deur die dekaan van die fakulteit en toekenning van kwalifikasies deur die Visekanselier.
 8. Sluiting deur die Visekanselier.
 9. Akademiese prosessie verlaat die verhoog.

PROGRAMME

- Please stand*
- Please stand*
- Please sit*
- Please stand*
1. Entrance of academic procession into the hall.
 2. Singing of the National Anthem (see inside back cover).
 3. Congregation formally constituted by the Vice-Chancellor.
 4. Welcome by the Vice-Chancellor.
 5. Welcome in Xhosa.
 6. Presentation of the candidate for the honorary doctorate and conferment of the degree by the Vice-Chancellor.
 7. Presentation of candidates receiving qualifications by the dean of the faculty and conferment of qualifications by the Vice-Chancellor.
 8. Closing by the Vice-Chancellor.
 9. The academic procession leaves the stage.

EREGRAAD | HONORARY DEGREE

Fakulteit Lettere en Sosiale Wetenskappe *Faculty of Arts and Social Sciences*

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

BONISILE JOHN KANI

vir sy passievolle toewyding aan die uitvoerende kunste as akteur, regisseur en skrywer; vir sy verbintenis om toegang tot die uitvoerende kunste vir jongmense uit gemarginaliseerde gemeenskappe te verseker; vir die benutting van die kunste om op te voed, om gemeenskap te skep en as 'n uitingsvorm vir die onderdrukte; en uit erkenning vir sy uitnemendheid in sy internasionale loopbaan in die uitvoerende kunste oor 50 jaar.

Bonisile John Kani is op 30 August 1943 in New Brighton, Port Elizabeth, gebore. Sy band met drama begin reeds op skool, en duur voort ná matriek. Nadat hy in 1965 'n vriendskapsband met Winston Ntshona en Atholl Fugard gesmee het, ontwikkel hulle in 1972 *Sizwe Banzi is Dead*, gevolg deur *The Island* in 1973. Hulle voer albei plaaslik en internasionaal op en in 1974 wen Kani en Ntshona albei die gesogte Tony-toekening vir beste akteur in die twee toneelstukke.

In 1977 stig Kani en Barney Simon die Markteater, en in 1990 die Markteater Laboratorium, wat jongmense uit gemarginaliseerde omstandighede in staat stel om die uitvoerende kunste te bestudeer. In 1982 skud Kani en Sandra Prinsloo die fondasies van die wit Suid-Afrikaanse samelewing toe hulle op die verhoog soen in Strindberg se *Miss Julie* in die Baxterteater. In 1987 word hy die eerste swart Suid-Afrikaner om Othello in Suid-Afrika te vertolk.

Hy skryf drie toneelstukke: *Nothing but the Truth* (2002), *Missing* (2014) en *Kunene and the King* (2018).

Kani se behoefte om die stories van die verdruktes te vertel en om die uitwerking daarvan op mense te sien, het sy diepgewortelde siening dat teater 'n kragtige instrument vir verandering is, gevestig.

for his passionate commitment to the performing arts as actor, director and playwright; for his dedication to ensure access to the performing arts for young people from marginalised communities; for using the arts to educate, to create community and as a tool of expression for the oppressed; and in recognition of his commitment to excellence in his 50-year international career in the performing arts.

Bonisile John Kani was born in New Brighton, Port Elizabeth, on 30 August 1943. His connection to drama started at school and continued after matric. After forging a bond with Winston Ntshona and Atholl Fugard in 1965, the three developed *Sizwe Banzi is Dead* in 1972, followed by *The Island* in 1973. They took both plays to local and international stages and in 1974 Kani and Ntshona both won the Tony Award for Best Actor in these two plays.

In 1977, Kani and Barney Simon established The Market Theatre, and in 1990 The Market Theatre Laboratory, enabling young people from marginalised circumstances to study the performing arts. In 1982, Kani and Sandra Prinsloo shook the very foundations of white South African society when they kissed on stage in Strindberg's *Miss Julie* at the Baxter Theatre. In 1987, he became the first black South African to play Shakespeare's Othello in South Africa.

He has written and starred in three plays: *Nothing but the Truth* (2002), *Missing* (2014) and *Kunene and the King* (2018).

Kani's need to tell the stories of the oppressed and to see the effect they have on people developed his deeply held belief that theatre is a powerful tool for change.

Fakulteit Lettere en Sosiale Wetenskappe *Faculty of Arts and Social Sciences*

Doktor in die Wysbegeerte **Doctor of Philosophy**

ANKAMAH-LOMOTÉY, Vincent Anum
(Science and Technology Studies)

Research uptake management: A strategic framework for institutionalising research uptake at the Kwame Nkrumah University of Science and Technology, Kumasi

This study examined research uptake management with particular reference to how it can be institutionalised within an organisation. The study proposes a strategic framework that identifies pathways and activities necessary for research uptake suitable for the Kwame Nkrumah University of Science and Technology (KNUST), Ghana. The study employed a survey (202 responses) and follow-up interviews with 20 researchers at KNUST. From the findings, a policy framework for institutionalising research uptake is proposed. This framework incorporates pathways, mechanisms and channels of engagement that facilitate research uptake. The broader impact of the study is its implications for the management of research.

Supervisor: Prof J Mouton
Co-supervisor: Prof S Grobbelaar

BRINK, Beatrix (Psychology)

Coping with destructive leadership behaviour: A qualitative study of non-physical abuse in South African companies

This constructivist study explored subordinates' experiences with destructive leadership behaviour and consequential coping strategies. The findings indicate that managers' perceived destructive leadership styles had consequences for participants, the managers themselves and the work unit, affecting the execution of tasks, the attainment of goals and employee well-being. To cope, participants endeavoured to find control; to distance themselves from the situation, their own thoughts and emotions; sought ways to affirm their closely held self-beliefs; indulged in positive and negative self-nurturing; sought solace in religion/spirituality; sought social and family support; and attempted to redirect their cognitions. These coping attempts were accomplished with varying degrees of effectiveness.

Supervisor: Prof AV Naidoo

DAMON, Eleanor Denise (Geschiedenis)

'n Genealogiese analise van die Cyster-familie van Pniël: hulle bydrae tot die ontwikkeling van 'n sendingdorp en 'n geslote gemeenskap in Suid-Afrika

Genealogiese navorsing is vandag 'n komplekse dissipline wat 'n betekenisvolle bydrae kan maak tot analise in 'n verskeidenheid sosiale wetenskappe. Die vestiging van 'n gemeenskap in die middel-19de eeu, saamgestel uit hoofsaaklik vrygestelde slawe, georganiseer en beheer deur 'n sendinggenootskap, het aan Pniël uit die staanspoor 'n eksklusiwiteit verleen wat oor 'n tydperk van 170 jaar tot 'n eiesoortige identiteit ontwikkel het. Die uitgebreide parenteelstaat van die Cyster-familie van Pniël wat die kern van hierdie studie vorm, lei tot talle navorsingsvrae, maar werp terselfdertyd ook lig op sekere sosiale verskynsels in die gemeenskap.

Promotor: Prof M Burden
Medepromotor: Dr HF Heese

DAVID, Stephen Temitope (English Studies)

Biafra as third space: Reading the politics of belonging in Biafra-Nigeria Civil War literature

The study examined Nigerian novels and memoirs that reference the Nigerian/Biafran War and its aftermath. Using Nira Yuval-Davis's situated intersectionality and Homi Bhabha's idea of a third space, the study read these unavowed narratives of Biafra as challenging hegemonic, binary and nationalistic accounts of the war perpetuated by both sides in the conflict. These stories from in-between unsettle the notion of Biafra as a homely space, revealing instead multiple forms of violence deployed against characters situated at the margins of the dominant discourses of the war.

Supervisor: Prof SC Viljoen
Co-supervisor: Dr W Mbao

DLAMINI-AKINTOLA, Virginia Thontea (General Linguistics)

The discursive construction of identity in young offenders' narratives in Swaziland

This study investigated the discursive identity construction of young offenders in Swaziland after the introduction of formal schooling. The study used arts-based methodology to elicit narratives and to investigate the semiotic landscape of the correctional facility in which the young offenders lived and the school they attended. The findings suggest that although formal schooling is seen as a beacon of hope, a tension between retribution and rehabilitation exists within both the school and the correctional facility. In addition, the study shows that a long-term ethnographic engagement with the school opened up new understandings of the life trajectories of the young offenders.

Supervisor: Dr MCA Oostendorp
Co-supervisor: Prof E Costandius

DUBE, Thembelihle (Psychology)

Narrative identities: Voices of the unemployed youth in a low-income community in South Africa

This study explored the context, content, key constructs and discourses of the narrative identities of 10 unemployed young people from Kayamandi. A qualitative, interpretivist research approach was adopted using narrative inquiry. The findings revealed agency, community and meaning making as narrative themes that defined the youths' narrative identities. Grand narratives that emerged were how poverty fuels unemployment, being a responsible man/woman, the double edge of education and the importance of (social) support. Further analysis revealed the manifestation of *ubuntu*, freedom of expression, the differences in engagement with unemployment by young men and women, the enduring impact of racism and the salience of capitalist principles.

Supervisor: Prof AV Naidoo

ESTERHUYSE, Harrie Willie (Science and Technology Studies)

Understanding the societal impact of research through productive interactions and realist theory-based evaluation: Select cases of agricultural research in South Africa

This study explored the concept of societal impact of research in four agricultural research projects in South Africa. It identified productive research–stakeholder interactions and assigned value to the interactions by using them to build theories of change and impact pathways. The study introduces a classification scheme of research impact that allows for a direct comparison between the understandings of societal impact as emerging from the impact pathways and the understandings of impact as reported by the research funders. The end result is a new research impact assessment method that contributes to the international research impact literature.

Supervisor: Prof SC Boshoff
Co-supervisor: Prof J Mouton

GORDON, Hugh William (History)

Forged in battle? A socio-military history of South Africa's 32 Battalion (1975–1993)

This study produces the first critical history of 32 Battalion. Starting as a faction of the FNLA, the Battalion deployed as Bravo Group during Operation Savannah and was subsequently incorporated into the regular structures of the SADF. From the start, the Battalion, which comprised soldiers and their extended families, had a distinct character. Drawing on recently declassified archival material and adopting a bottom-up approach, the study examined both the life of the Battalion (from formation to disbandment) and the patterns of life inside this highly effective, and rather unique, military unit.

Supervisor: Prof IJ van der Waag

GROBLER, Gerhardus Martinus (Applied Ethics)

To serve two masters? A moral analysis of an apparent conflict of interest in the profession of occupational physicians

The discipline of occupational medicine is rooted in a bid to reform unhealthy and dangerous workplaces in 18th-century Britain. Whereas doctors are considered duty-bound to always prioritise their patients' interests, occupational physicians' vocation is occupational health and safety – for the common good of society. Practising healthcare in the ambit of labour creates a uniquely challenging ethical milieu. It adds an unusual dimension to the doctor–patient relationship – that of legitimate stakeholders and role players. Resolving ethical dilemmas calls for protecting the professional independence of occupational physicians and a virtue ethics approach, spearheaded by contextual wisdom.

Supervisor: Prof AA van Niekerk

IBAKA SANGU, Philippe (Sociology)

Adaptation des institutions traditionnelles à la gestion foncière de Kinshasa, ville capitale

The Democratic Republic of Congo has experienced the existence of traditional chiefs before and after colonisation. With the development of cities, a new way of governing with impersonal urban institutions has emerged. This process of adaptation has not been uniform. In the former colonial zone of Kinshasa, traditional institutions have been replaced by modern urban state institutions; in the planned zone, they have lost much of their authority; and in the periphery, they tend to coexist with their modern equivalents. A new state body has enabled some traditional leaders in the city to collaborate and cohabit with modern state institutions.

Supervisor: Prof SB Bekker
Co-supervisor: Prof M Kalulambi Pongo (external)

KABWE, Kabaso (Political Science)

Assessing the utility of Kingdon's Multiple Streams Framework for studying policy implementation: A case study of mobile hospitals in Lusaka province, Zambia

This study explored what can be learned about policy implementation with application of the Kingdon's Multiple Streams Framework. The framework was applied to analyse data collected on the case study, which was the implementation of mobile hospitals in the Lusaka province in Zambia. The study demonstrates that the framework is useful but in need of adaptation to accommodate the contextual inputs identified in the study. The study proposes changes such as analysing the centralisation of power in the government system and the role of the executive in policy implementation. In addition, it questions the standard conceptualisation of the policy entrepreneur.

Supervisor: Dr UL Adams-Jack
Co-supervisor: Dr D Lambrechts

MSAKA, Peter Kondwani (General Linguistics)

Nominal classification in Bantu revisited: The perspective from Chichewa

This study focused on a core, but still very poorly understood, characteristic of languages belonging to the Bantu language family, namely the noun classification system. The study was centrally concerned with Malawi's most widely spoken language, Chichewa, which poses numerous challenges to the standardly accepted nominal classification theory. It makes two major contributions: Firstly, it offers a very thorough and systematic description of the Chichewa facts, encompassing a much wider range of data than that traditionally considered in research on nominal classification, and secondly, it sets out and motivates an acquisitionally plausible account of the organisation of the Chichewa nominal system.

Supervisor: Prof T Biberauer
Co-supervisor: Dr J Oosthuizen

MUSILA, Benson Shisavilu (Political Science)

Foreign aid in Africa: Analysing the role of European Union political aid in political processes in Kenya, 1990–2013

European Union political aid in Kenya initially supported liberalisation after the Cold War. Since the 1990s, the focus shifted to bolstering domestic civil society in its struggle against the Moi dictatorship. In the first decade of the 2000s, the agenda shifted again to building institutions tied to the war on terrorism. This failed to press the Kenyan government to effect institutional reforms that promoted participative political processes, leading to the post-election crisis of 2007–08. The study argues for a healthy balance in political aid between the promotion of agency and participative processes versus effective and robust institutions.

Supervisor: Prof GM Khadiagala (external)

Co-supervisor: Prof JP Hattingh

MUTARU, Saibu (Social Anthropology)

Naming the witch, housing the witch and living with witchcraft: An ethnography of ordinary lives in Northern Ghana's witch camps

In Northern Ghana, people found guilty of witchcraft are often banished to so-called witch camps. This ethnography explores the ways in which convicted 'witches' settled in host communities as morally compromised strangers. It shows that although dewitchment rituals played a vital role in villagers' decision to trust and accept 'witches' into their communities, meaningful social co-existence depended on enormous generosity from the accused (who provided labour) and locals (who allowed dangerous Others into their midst). In this social exchange, however, the moral stain of witchcraft skewed transactions in favour of locals who accepted the risks of living with a 'witch'.

Supervisor: Dr I van Wyk

Co-supervisor: Prof T Cousins

MYBURGH, Naomi (Psychology)

Adapting and piloting a cognitive-behavioural group therapy-based anxiety intervention programme for vulnerable children from a disadvantaged background within the South African context

Childhood anxiety is a prevalent psychological problem worldwide and has been identified as a concerning mental health issue in need of intervention, especially among vulnerable children within disadvantaged contexts. Within such contexts, access to mental health services is particularly limited due to a lack of resources that diminish service delivery capacity. This timely study with a creative focus on adapting and piloting an accessible, cost-effective and contextually tailored cognitive-behavioural group therapy-based anxiety intervention programme contributes uniquely to the psychological well-being of vulnerable children from a disadvantaged background within the South African context. The findings have important implications for anxiety prevention.

Supervisor: Prof HS Loxton

OKOLIE, Mary Janepatrick Nwakaego (English Studies)

Historicising borders: Studies in Nigerian novels

The study provides an alternative imagining of the border by examining fictional representations of bordered identities in three generations of Nigerian literature. From the perspective of border poetics, which is the intervention of arts and culture in border studies, the study examined a range of fictional novels thematising concerns related to geographical, cultural, ethnic and social divides. By engaging novels that speak to the national concerns prevalent in different periods of Nigerian literary history, the study demonstrates how literary texts conceptualise the lived experience of shifting borders and the cultural and social distinctions that have attended historical changes in Nigeria.

Supervisor: Dr D Roux

Co-supervisor: Dr ME Jones

PARRY, Douglas Anderson (Socio-Informatics)

Media multitasking and cognitive control: Assessing the feasibility of an intervention requiring the self-regulation of smartphone use

Media multitasking is a near-ubiquitous behaviour in modern life and has been associated with a number of adverse cognitive, psychosocial and functional outcomes. This project investigated interventions targeting media multitasking and related cognitive effects through a mixed-methods investigation. First, an integrative theory of media use behaviour and media multitasking drivers was produced. Second, existing research was synthesised through a systematic review. Third, a self-regulation-based media multitasking intervention was developed. Insights into the feasibility of the intervention (demand, implementation, acceptability and efficacy) for a student population were produced through an experimental design involving cognitive assessments, usage tracking and interviews.

Supervisor: Dr DB le Roux

Co-supervisor: Dr J Bantjes

SARUCHERA, Munyaradzi (Sociology)

Smallholder farmers' understandings of and responses to climate change in Malawi: A case study of Mphunga group village, Salima district

This study used an actor-oriented approach to explore how smallholders in a Malawian village hit repeatedly by extreme weather events are responding to the discourse of climate change that international climate change experts and donor-funded relief agencies have brought to their district. Age, gender and education emerged as significant in shaping farmers' understandings of how climate change relates to the changes in weather they are experiencing, while local social networks provide important safety nets for households struggling to cope with repeated livelihood shocks. External agencies are supporting farmers to develop adaptation strategies, but vulnerable farmers' dependency on these interventions is also increasing.

Supervisor: Prof CJ Walker

SHABALALA, Nokulunga Candice Nosipho (Psychology)

The experience of black medical specialists in training at two medical schools in the Western Cape

Using a decolonial lens, the student sensitively explored the experiences of black trainees in various medical specialties. She shows that despite all policies to the contrary, black medical specialists in training experience a range of subtle exclusions and disavowals in their training and workplace settings. The experience of race, along with other aspects of identity such as gender, deeply inflects the ways in which people who have historically been excluded enter and struggle to inhabit contemporary spheres of power. The candidate made exceptional use of her own reflexivity as a black healthcare professional to collect and analyse rich and complex data.

Supervisor: Prof LP Swartz

Co-supervisor: Prof B Chiliza (external)

STANDER, Daniël Botha (English Studies)

Reza de Wet (1952–2012): Life and works

This study charted the intellectual and artistic development of South African playwright Reza de Wet. Her life as a writer, actress, director and scholar is under-researched, and this is the first full-length biographical study of both her life and her works. Drawing on theatre, literary and biographical studies, the study analysed her work in thematic clusters. It placed special emphasis on De Wet's idiosyncratic Jungian psychoanalytic poetics and read her oeuvre as an expression of a psyche in search of greater self-knowledge. It relied on close readings and extensive archival research to conduct an encompassing lifeworlds analysis.

Supervisor: Prof SC Viljoen

Co-supervisor: Dr RN Oppelt

SWARTS, Johannes Jacobus (Afrikaans en Nederlands)

A grammatical framework for the computational parsing of written Afrikaans sentences

Hierdie studie bied 'n ondersoek na 'n grammatikale raamwerk wat die geskikste is vir die rekenaarmatige voorstelling en ontleding van geskrewe Afrikaanse sinne. Dié raamwerk is nodig om 'n omvattende Afrikaanse boombank te bou – 'n hulpbron wat 'n noodsaaklike voorvereiste is vir gevorderde Afrikaanse natuurlike taalverwerking. Die studie beskryf die struktuur van geskrewe Afrikaans vanuit die perspektief van twee dominante grammatikale raamwerke. Met hierdie beskrywings as vertrekpunt word 'n taalkundig gemotiveerde Afrikaanse boombank gebou. Die data word met vier toonaangewende sinsontleders bewerk om die beste raamwerk vir die rekenaarmatige voorstelling van die sintaktiese struktuur van geskrewe Afrikaanse sinne te bepaal.

Promotor: Prof RH Gouws

Medepromotors: Drr J Oosthuizen en G-J van Rooyen

TSHABANGU, Thulani (Journalism)

Citizen journalism and alternative media in Zimbabwe: An ethnographic study of citizen participation, newsmaking practices and discourses at AMH Voices

This study, in a repressive environment in Zimbabwe, examined theories of the public sphere, critical political economy and critical discourse analysis. It argues that a counterpublic sphere emerged in which AMH Voices, an alternative media platform, afforded marginalised citizens the opportunity to participate in journalistic processes. It found that news discourses were mostly framed in non-dominant perspectives using interpretive news-writing styles to express alternative political narratives, challenge the status quo and advocate for radical political change. However, they were also influenced by contextual and structural pressures, including conservative views regarding gender, which made categorisation as an automatic or consistent counterpublic sphere difficult.

Supervisor: Dr GJ Botma

VAN HEERDEN, Lorinda (English Studies)

Intimating a female archive: Rendering the wounds of family trauma

This study (an original artist's book plus a theoretical dissertation) explored femaleness, family, trauma, archive and creative practice. Bearing proxy witness to the lives of three generations of women in her family, the candidate, inspired by Hélène Cixous, reworked traditional, Derridean archival discourses via experimental, feminist-inflected alternatives such as the unsayable, the interior and the surrogate. The study innovatively configured multiple imaginative modes (among them critical theory, poetry, manipulated photographic images and recorded oral testimonies) to produce both a creative artefact and a generative model for the hybrid, critical-creative potentials of autoethnographic scholarship in the arts.

Supervisor: Prof SA Murray

Co-supervisor: Dr M Slabbert

WESTMAN, Claire Stephanie (Philosophy)

'There's no such thing as gay': Black lesbians and nationhood in post-apartheid South Africa

Within contemporary South Africa, lesbian women are widely understood as a symbolic threat to the national identity under construction. By incorporating visual activism and the narratives of some survivors of lesbo-phobic rape, this study developed a black lesbian standpoint framework with which to analyse the phenomenon. This lens brings to the fore the social and historical conditions that have led to lesbo-phobic rape: While the liberal and traditional paradigms in the country clash on the surface, they in fact reinforce each other's patriarchal and lesbo-phobic effects. The black lesbian body figures as the abject, to be either corrected or otherwise violently expelled.

Supervisor: Prof HL du Toit

Fakulteit Lettere en Sosiale Wetenskappe *Faculty of Arts and Social Sciences*

Magister in die Lettere en Wysbegeerte **Master of Arts**

Alberts, Kirstin Jayne (Clinical Psychology)(*cum laude*)
Bell, Lenie Debbie (Psychology)
Beukes, Anni Rosalen (Social Anthropology)
Cloete, Rosemary Yvonne (Clinical Psychology)
De Villiers, Engela Helena (General Linguistics)
Ehlers, Landi (Political Science)(*cum laude*)
Fredericks, Jordan Shain (Political Science)(*cum laude*)
Grové, Agneta Alison (Second-language Studies)
Halm, Tamsyn Robyn (History)
Hartmann, Jean-Pierre (Clinical Psychology)
Hlatshwayo, Zwakele (African Languages)(*cum laude*)
Hopson, Kenneth Raymond Uvelt (Psychology)
Hougaard, Deryck Simon (Philosophy)(*cum laude*)
Kamaldien, Luqmaan (Clinical Psychology)
Krannich, Hans-Martin (German)(*cum laude*)
Lentsa, Ntina (Political Science)
Mbilini, Sakhumzi Nkululeko (Socio-Informatics)
Meyerson, Kyla Amy (Psychology)(*cum laude*)
Monnagotla, Roseline Mpho (Political Science)
Onwunta, Chima (Sociology)
Passetti, Michael Alvaro (Social Anthropology)
Petersen, Jade Melissa (Clinical Psychology)
Schneider, Carron (English Studies)(*cum laude*)
Sparrow, Melissa Jade (Psychology)
Swanepoel, Elaine (Journalism)
Tollon, Fabio (Philosophy)(*cum laude*)
Tromp, Jodi Bronwyn (Clinical Psychology)
Trossbach, Anne Roswitha (Political Science)(*cum laude*)
Tsabedze, Bhekumusa Saneliso (African Languages)(*cum laude*)
Valentyn, Gail Estelle (Technology in Language Learning)
Van Dalen, Daniel (Political Science)(*cum laude*)
Van der Merwe, Ragnar (Philosophy)(*cum laude*)
Van der Westhuizen, Adré Duan Eshton (Social Anthropology)
Vollmer, Tracey Evette (General Linguistics)
Wingfield, Matthew Michael (Social Anthropology)

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

Jacobs, Nathaneal Sidney (Urban and Regional Planning)

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

Abrahams, Aqeelah (English Studies)
Absalom, Inge (International Studies)(*cum laude*)
Acutt, Rebekah Faith (History)(*cum laude*)
Adicary, Wardah (History)
Andrews, Wendall Deudon (Geography and Environmental Studies)
Arnold, Kayla Shelley (International Studies)(*cum laude*)
Anries, Levern Althea (General Linguistics)
Beasley, Kelly (African Languages)

Behrens, Matthew (History)
Bell, Louise Suzette (English Studies)
Bester, Kenau Michelle (English Studies)
Beukman, Eduard Francois (International Studies)(*cum laude*)
Beyers, Talya (General Linguistics)(*cum laude*)
Biscombe, Cleo Sabrina (English Studies)(*cum laude*)
Bitzer, Erik (English Studies)
Botha, Getruida Petronella (Ancient Cultures)(*cum laude*)
Botha, Marco (International Studies)
Brookes, Ilse (History)(*cum laude*)
Bruwer, Jesse Levonne (Translation)
Bueno Dias Andrade Cabral, Vitoria Cristiana (General Linguistics)(*cum laude*)
Came, Carmel (General Linguistics)(*cum laude*)
Cele, Sibonisile Nomusa (Political Science)(*cum laude*)
Chalmers, Brittany Inge (History) (*cum laude*)
Chidamwoyo, Kudzai Allan (History)
Cilliers, Juanita Suzanne (Ancient languages)(*cum laude*)
Cloete, Tamlyn Nadine (Geography and Environmental Studies)
Coetzee, Katelin Zoe (International Studies)(*cum laude*)
Colan, Mischka Robyn (General Linguistics)
Collington-O'Malley, Tessa Emily (General Linguistics)(*cum laude*)
Cook, Grant Ross (English Studies)
Cupido, Cleve David (Geography and Environmental Studies)
De Beer, Emile (History)
De Beer, Iman (History)
De Wet, Danelle Jody (Geography and Environmental Studies)
Desai, Zarah (Psychology)
Donnelly, Caitlin Mary (Psychology)
Du Pisani, Tian (Political Science)(*cum laude*)
Field, Courtney (Psychology)(*cum laude*)
Firth, Georgina Maria (International Studies)
Flanagan, Liam (International Studies)
Flexney, Justin Lyle (Geography and Environmental Studies)
Fouche, Nina (English Studies)(*cum laude*)
Fox-Martin, Amber Dawn (History)(*cum laude*)
Fraser, James Gordon (Philosophy)(*cum laude*)
Fritzon, Mina Cecilie (International Studies)
Gardner, Sarah Ann (Philosophy)(*cum laude*)
Gjestvang, Kari Soedal (German)
Gomes, Alexander Carlos (History)
Gordon, Nizette Adri (Geography and Environmental Studies)
Hanekom, Tammy Diane Elizabeth (Geography and Environmental Studies)
Hartmann, Laura Anne (Psychology)(*cum laude*)
Hendricks, Joh-Stine Georgina (Psychology)(*cum laude*)
Herman, Chane (Geography and Environmental Studies)
Hermanus, Ute Inge (Political Science)
Jansen van Vuuren, Nicola (Psychology)(*cum laude*)
Jefthas, Jame Claire (English Studies)
Jefthas, Tammy Lee (Geography and Environmental Studies)
Kahla, Ayanda (History)

Kershaw, André James Daniel (English Studies)(*cum laude*)
 Köhler, Nikita Stefanie (Psychology)
 Koopman, Gabriella (Psychology)
 Kruger, Kristien (Afrikaans and Dutch)
 Langerman, Rupert Harold (History)
 Le Roux, Jean Guthrie (English Studies)(*cum laude*)
 Lemon, Kelsey (History) (*cum laude*)
 Levinrad, Nathan Vuyo (Political Science)
 Light, Rebecca Ann (Geography and Environmental Studies)
 Louw, Luita Antoinette (History)(*cum laude*)
 Lucas, Byron John (Ancient Cultures)
 Luijk, Anneke (Translation) (*cum laude*)
 Mackenzie, Charles Harry (Philosophy)
 Maketekete, Tiisetso Katleho (Psychology)
 Mamoepa, Bohlale Mashaa (International Studies)
 Mapundu, Kamvelihle (International Studies)
 Maree, Hester Mullerene (Political Science)
 Mayeki, Setsoheng (Geography and Environmental Studies)
 Mbingo, Christinah Nomfundo (African Languages)
 McCullough, Katie Leigh (International Studies)
 McKenzie, Jenah Edith (General Linguistics)(*cum laude*)
 Mohamed, Zaynab (International Studies)
 Mohlala, Mahlatse Matlole (Geography and Environmental Studies)
 Mostert, Jolene (Translation)
 Muller, Bianca (Translation)
 Neville, Daniella (German)(*cum laude*)
 Ngulu, Albertina Ndinelago Tuhumbata (African Languages)
 (*cum laude*)
 Nkhasi, Refiloe (Political Science)
 O’Ryan, Emily (Political Science)
 October, Jamy-Lee Rachel (Psychology)
 Olivier, Karla Amor (Psychology)
 Patrick, Sian (Psychology)
 Pepper, Lynlea Athene (Geography and Environmental Studies)
 Petersen, Jared (Geography and Environmental Studies)
 Pieterse, Larochelle (Psychology)
 Potgieter, Charlene (Geography and Environmental Studies)
 Prins, Whitney Cristal (History)
 Quina, Percival John-Oliver (International Studies)
 Radoni, Athenkosi (African Languages)
 Rafique, Mohhadijah Aneela Cynthia (Psychology)(*cum laude*)
 Ramokoatsi, Mabuts’ana (General Linguistics)
 Ranchhod, Shama (Psychology)
 Rich, Ashley Jean (English Studies)
 Shawe, Robert Lionel (Geography and Environmental Studies)
 Sheward, Hannah (History)(*cum laude*)
 Sleet, Francesca Bryony (English Studies)(*cum laude*)
 Smith, Luke (International Studies)
 Smith, Paige Taylor (History)
 Speechly, James Clifford (German)
 Steenkamp, Lauren Christine (Political Science)
 Stofile, Akhona (History)
 Swart, Catherine (History)
 Talkenberg, Mareike (Psychology)(*cum laude*)
 Thackwray, Savannah (Psychology)
 Theunissen, Andrea (Psychology)
 Thompson, Ashleigh (French)(*cum laude*)

Tshirangwana, Mishumo Rhoda (Psychology)
 Van den Berg, Gizela (Psychology)(*cum laude*)
 Van den Brink, Jessica Hendrika (Ancient Cultures)(*cum laude*)
 Van der Colff, Simone (History)
 Van der Hoven, Andreas Bernhardus Theron (French)(*cum laude*)
 Van der Hoven, Victoria (General Linguistics)
 Van der Merwe, Adrienne Madeleine (International Studies)
 Van der Merwe, Anrika (Ancient Languages)(*cum laude*)
 Van Dijk, Lizelle (English Studies)(*cum laude*)
 Verwey, Janke (Psychology)
 Viljoen, Shani Claudia (Ancient Languages)(*cum laude*)
 Vogel, Steyn Lodewyk (Psychology) (*cum laude*)
 Vosloo, Robert Roux (English Studies)
 Walters, Michelle (History)
 Wannenburg, Matthew Alfred John (International Studies)
 (*cum laude*)
 Watson, Courtney Lynn (History)
 Webber, Marion (History)
 Wesselo, Jessica Anne (English Studies)
 Witbooi, Elisma Valansia (History)
 Young, Emily Jane (Geography and Environmental Studies)
 Zeeman, Alex Elizabeth (General Linguistics)

Baccalaureus in die Lettere en Wysbegeerte
Bachelor of Arts

Ables, Jodi
 Abrahams, Kesia Tarryn
 Abramson, Alexia Hannah
 Adams, Doené
 Almendro, Michelle Celine
 Apollos, Blaine Dana
 Araujo Vieira, Marcelino
 Arendse, Cindy
 Arendse, Mishka
 Aslander, Emmely
 Asmal, Zoë
 Attree, Michael Ross
 Attwell, Abigail Sarena
 August, Renske Zanele
 Baard, Yolandi
 Bacon, Savannah
 Baker, Nicola
 Barendse, Kayla Jill
 Barlow, Taryn-Lee
 Barnard, Leah-Zanne
 Barnes, Farren Ray
 Barreiro, Marche
 Barthus, Liam Vivian
 Basson, Willem Johannes (*cum laude*)
 Baxter, Caitlyn
 Beatham, Laura Amy
 Beeselaar, Greta
 Beja, Nwabisa Fikile
 Bester, Cornelia Margaretha
 Bezuidenhout, Cara
 Bicker Caarten, Ashleigh Louise
 Biggs, Grace Amy Jesse

Bilbrough, Kathleen Elizabeth
 Blake, Amber
 Blanckenberg, Julia Deborah (*cum laude*)
 Bloemfontein, Arlynn Shanice
 Bopape, Shilela Nhlamulo
 Botha, Carla
 Bothma, Adrian Roland
 Bourdillon, Nicola Jane
 Bowers, Giuliana (*cum laude*)
 Bowers, Serelia Gisela
 Brink, Zeniël
 Brooks, Natasha Charlotte
 Brougham-Cook, Callan-Peter
 Browning, James Luke Zakas
 Bruiners, Jason Bradley
 Bucwa, Sipokuhle
 Burger, Carli
 Burn, Caitlin Shona
 Button, Rachele Courtenay
 Buys, Pieter Gabriël
 Byren, Sarah Emma
 Campbell, Heather Meagan
 Candy, Savannah Leigh
 Casagrande, Cara Catherine
 Caswell, Daryn
 Clapperton, Keilidh (*cum laude*)
 Clark, Kirsten Luise
 Clery, Joshua
 Cloete, Aniqah
 Cloete, Jodie
 Clothier, Julia Martina
 Coetzee, Jason
 Coetzee, Lauren (*cum laude*)
 Collett, Ryan Melville
 Combrinck, Chandré
 Cooper, Celine Rose
 Cordon, Leo Travice
 Croeser, Georgia Rae (*cum laude*)
 Cupido, Breyten Conrad
 Currie, John Campbell
 Da Mata, Antonia Katelyn
 Dalbock, Abigail Margaret
 Damens, Juan
 Daniels, Devon Oswald
 Danton, Samuel David Lindsay
 Davids, Bevin Roderick Irvin
 Davidson, Zoe
 Davis, Kirsten Anne
 De Bruyn, Robyn
 De Clercq, Lisa Marie (*cum laude*)
 De Kock, Lisa
 De la Fargue, Hugo James
 De Swardt, Tiaan (*cum laude*)
 De Villiers, Nicola
 De Vos, Tehillah Scout (*cum laude*)
 De Vries, Vega
 Del Cuore, Emma Olivia
 Dodds, Megan
 Donaldson, Hannah Roxanne
 Dorrington, Emma Wanless
 Dorrington, Georgia Poultney
 Du Plooy, Cherise
 Du Preez, Danielle Candice
 Du Preez, Linné
 Du Toit, Ethan Rico
 Du Toit, Wynand Blomerus
 Duarte, Nicole Batista
 Edwards, Olivia Alice Debora
 Elijah, Sachin
 Ellis, Jemma
 Eloff, Christina
 Engelbrecht, Cara
 Engelbrecht, Johanna Maria
 Engelbrecht, Kelbi
 Erasmus, Kirsten Helen
 Erasmus, Lindi
 Esterhuizen, Lené
 Fataar, Imadah
 Felkers, Lee-Yanche Michaela
 Fieties, Shari Carlynn
 Figueira, Leo
 Firth, Holly Catherine
 Fish, Benjamin John
 Fortuin, Calley Jean Jennifer
 Fortuin, Candice
 Fortuin, Haroon
 Fortune, Chelsea Lauren
 Fouché, Marguérite (*cum laude*)
 Fourie, Gita
 Fourie, Lerissa
 Fourie, Tamaryn Taylor
 Frausing, Jon Egil
 Fredericks, Kelsey Jamie
 Galant, Melanee Ashlee
 Gallie, Tamsyn Keisha
 Gillis, Ashleigh Elizabeth
 Goodwin, Cathryn Hannah
 Goosen, Reece James
 Gqosha, Lithamsanqa
 Grant, Stewart Garnet Sinclair
 Grey, Liam Joshua
 Grobler, Kirsten
 Groenewald, Kristen Georgene
 Gultig, Emma Alexandra
 Hadebe, Nqobile Nqobi (*cum laude*)
 Hall, Jessica
 Hamberger, Blair
 Harding, Kristen Jessica (*cum laude*)
 Harmse, Natasha
 Hegewisch, Tomas Albert
 Hemphill, Josie Louise Kirkpatrick
 Henkeman, Carlynn Tiffany
 Henney, Shaznay Harriet
 Hertzberger, Paula Ann

Hill, Jessica
 Hobson, Murray Geoff
 Hoek, Sarah Ruth
 Hoomoedt, Candice Judy (*cum laude*)
 Howell, Nina Joan
 Hugo, Carl Gustav
 Hunter, Rachel Nye
 Immelman, Andre
 Inman-Bamber, Fern Alice
 Jacobs, Alison Nicole
 Jacobs, Curtley Reece
 Johnson, Akira
 Jones, Cayley Robin
 Joon, Zaan-Maré
 Julius, Tarah Julie
 Jullien, Donna Phyllis
 Kamper, Femia
 Kay, Zaakirah
 Kemp, Nadia
 Kerchhoff, Jade Catherina
 Khan, Azraa
 Klapwijk, Henriëtte
 Knoetze, Frederick Wilhelm
 Koorts, Cornel
 Kotze, Caitlin Reghina
 Kotze, Janke Charlotte
 Kroza, Anesipho
 Kruger, Emma Alexandra
 Kucera, Robert Antonin
 Küsel, Daniela
 La Cock, Simón Sesarie
 La'Meyer, Shandré Esmé
 Lamprecht, Liesl Wandé (*cum laude*)
 Language, George
 Latham, Byron Hugh (*cum laude*)
 Lebitsa, Rudy
 Lemmer, Karlien
 Leonard, Roderick Emile
 Letsoara, Sebina Khauhelo Rorisang
 Levendal, Vernique Lee-Zhaundre
 Lewthwaite, Maxine
 Linley, Joseph Louis Nel
 Little, Rachel Camilla
 Loock, Amber
 Loots, Lindsey
 Louw, EUNET
 Lucas, Gillian Dalene
 Ludik, Natalie
 Lujabe, Portia Nolubabalo
 Lukas, Simone
 Madikizela, Sinethemba
 Mafata, Masego Ofentse (*cum laude*)
 Magadla, Nonkululeko
 Majola, Fikile Nthombizonele
 Makanatleng, Sesgongwane Doctor
 Malada, Ndamulelo Pedro
 Maleka, Masake
 Malherbe, Jeanne-Marié
 Manare, Lehlohonolo
 Mantovani, Costanza
 Manuel, Shuaib
 Marais, Ryan
 Marakalala, Hloriso Joy
 Maree, Zani
 Marshall, Emma Alice-Kate
 Marthinus, Nathalie Helloise
 Martin, Chanique Amore
 Marx, Jo-Mari
 Marx, Joné
 Mbatha, Sandra Judith
 McConville, Emily
 McDermott, Catherine Marie
 McNeil, Kelly-Ann
 Meek, Stephanie Angela
 Meiring, Kirstin Nicole
 Mqgibelo, Apiwe
 Mhlambiso, Zizipho
 Mjacu, Marie Joan
 Mkumatela, Asambese
 Moodley, Megan
 Moses, Jenna Leigh
 Mostert, Gabrielle (*cum laude*)
 Moyo, Thandolethu Nobesuthu
 Mpefu, Zandile Millicent
 Mthandani, Vuyelwa
 Mtimde, Sinesipho
 Mubaiwa, Unopachido Akwande
 Muirhead, Teal Demi
 Mujulizi, Mukisa
 Muller, Danelle Robyn
 Muller, Megan Kim
 Muroa, Tshupo
 Myburgh, Cornel
 Myburgh, Joshua Daniel
 Naidoo, Kiasha
 Nasson, Nicole Deanne
 Naude, Belinda Rochelle
 Naude, Jeanette
 Ndaba, Tebogo
 Ndamandama, Masixole Paul
 Nel, Louis Willem Andries
 Nieuwoudt, Charles Johannes
 Nightingale, Franky Them
 Njengele, Xola
 Nkosi, Njabulo Meshack
 O'Connor, Catherine Claire
 O'Leary, Skye Mavoumeen
 O'Regan, Victoria Patricia Margaret
 Obermeyer, Jacob Claus
 Odams, Jordan-Lee
 Odendaal, Chanté Maree (*cum laude*)
 Olivier, Anin Helena
 Oostmeijer, Olivia Lucia
 Orange, Ashleigh Chantel
 Orth, Marguerite Erna
 Parker, Amy Anne

Parsons, Gemma Olivia
 Pedro, Rushke Joy
 Peek, Cana Lee Durant
 Pellow-Jarman, Catherine
 Perthel, Maxine
 Phakade, Lwazi
 Pieters, Justine Elizabeth
 Pilane, Tebogo Kamogelo
 Pitchers, Joanne Leigh
 Pitt, Rebecca
 Plank, Stephanie Helena (*cum laude*)
 Poole, Emma Jane
 Prenter, Andrew Luke Scott
 Pretorius, Alexis Willem
 Pretorius, Matt Dave
 Pretorius, Sheray
 Princewill, Tamunodein
 Qaoka, Blantinah
 Qinela, Vuyolwethu
 Qinga, Liyabona
 Qutsu, Aviwe
 Rahim, Tasneem (*cum laude*)
 Rametsi, Phindile Hope
 Ramsbottom, Emma Jane
 Redelinghuys, Mienke
 Rees, Pablo Simon
 Reid, Lauren
 Reynolds, Amy Chanelle
 Rhode, Dorian
 Robertson, Summer Jordan
 Robertson, Suné Andrea
 Rodseth, Sarah Jane
 Rossouw, Lerissa
 Routledge, Kerryn Gillian
 Roux, Anntonette
 Rowlands, Abigail Grace
 Rowsell, Samantha Leigh
 Salmon, Margaux Henriette
 Sampson, Tegwen Lee
 Saunders, Jesse Ann
 Schade, Lena Rebecca
 Schenck, Nicholas Martin Alexander
 Schnabel, Daniela Victoria
 Schneider, Sebrina
 Scholtz, Marlenke
 Schumann, Svenja
 Schutz, Landolph
 Scott, Luke Richard
 Scribante, Jaco
 Sebogodi, Nkagisang
 Setzer, Tyler Ellen
 Simons, Hayley Merlind
 Simpson, Huibrecht Aletta (*cum laude*)
 Slabbert, Jean-Mari
 Smart, Ashleigh Jade
 Smith, Ivana
 Smith, James Warren
 Smith, Jani
 Smith, Shannon Lee
 Solomon, Grant James
 Sowade, Alexa Leigh Farrell
 Stallmann, Maria (*cum laude*)
 Stambolie, Estelle
 Steenkamp, Neil Jean
 Steffens, Jessica Margaret
 Stofberg, Kathryn Sarah
 Streicher, Chantel (*cum laude*)
 Sukers, Nicole Ruth Elizabeth
 Swanepoel, Barend Hercules Philippus
 Swart, Suretha
 Taliep, Sa-Eedah
 Ter Borg, Marlize (*cum laude*)
 Terblanche, George William Dutton
 Teubes, Savanna
 Theron, Arlene
 Theron, Shirah
 Thiel, Emily Turkington
 Thomas, Carl Austin
 Thwaites, Dylan (*cum laude*)
 Timson, Sam Ross
 Titus, Jovian Armor
 Tlakula, Makhanani
 Todd, Maxine Lahner
 Toyer, Ayesha
 Van Buuren, Elzaan Chante
 Van den Heever, Amonette
 Van der Merwe, Ester
 Van der Walt, Anna Catharina
 Van Dyk, Angela Christine
 Van Eeden, Marguerite
 Van Niekerk, Jade Danielle
 Van Rensburg, Ella
 Van Rooyen, Benita Leane
 Van Rooyen, Cherise
 Van Staden, Elizma
 Van Staden, Yvonne
 Van Wyk, Louis Johannes
 Van Wyk, Virginia
 Verfaillie, Carla Stephanie Marijke
 Walters, Jessica Emily
 Walters, Linda
 Waterson, James
 Watts, Tarah (*cum laude*)
 Wegner, Tia
 White, Hadia Rhakima
 Widegger, Natalie Tayla
 Willemse, Christopher Frans
 Williams, Amy Anne
 Williams, Shima Lynn
 Wilschutt, Nazley
 Witthuhn, Tessa Caroline
 Wulana, Zinzi
 Xotyeni, Avuyile
 Zeier, Johann
 Zihlwele, Sisipho
 Zimri, Mcniel Jehan

