



Beste Matie-graduandus

Hartlik geluk met die kwalifikasie wat jy vandag verwerf. Jy is 'n sprekende voorbeeld van die uitnemendheid waarna die Universiteit Stellenbosch (US) streef. Ons is trots op jou!

Jy is deel van 'n uitgelese groep, want ons gedenk vanjaar ons eeuwording as universiteit. Die US het in 1918 met vier fakulteite, 503 studente en 40 dosente begin. Vandag spog ons met tien fakulteite en 'n dinamiese gemeenskap van meer as 31 000 studente en 3 000 personeellede op vyf kampusse in die streek.

Ons bedank almal wat hierdie instelling help vorm en sy reputasie as 'n wêreldklas-akademiese instelling help vestig het. Terselfdertyd erken ons die Universiteit se bydrae tot die onregte van die verlede, waarvoor ons diepe berou het. Ons vra onvoorwaardelik om verskoning aan diegene wat uitgesluit was van die historiese voorregte wat die US geniet het. Ons vereer ook die kritiese Matiestemme van daardie tyd, wat aanhou praat het al is hulle verstoot. En uit verantwoordelikheid teenoor huidige en toekomstige geslagte verbind die US hom tot die ideaal van 'n inklusiewe wêreldklasuniversiteit in en vir Afrika.

Die US is jou akademiese tuiste. Bly asseblief 'n aktiewe lid van die Matie-familie via die alumniwebblad, sosiale media en gereelde alumni-funksies. Stuur vir die alumnikantoor (alumni@sun.ac.za) jou nuwe kontakbesonderhede sodat jy uitnodigings, nuusbriewe en die US-alumnydskrif *Matieland* kan ontvang. Studies dui daarop dat betrokkenheid by sterk alumni-netwerke vrugte afwerp sover dit professionele ontwikkeling betref.

Ons beste wense vergesel jou!

Prof Wim de Villiers
Rektor en Visekanselier

Dear Matie Graduate

We warmly congratulate you on the qualification that you will be receiving here today. You exemplify the excellence that Stellenbosch University (SU) strives for. We are proud of you!

You are part of a very special group, because the University is commemorating its centenary this year. Starting out with four faculties, 503 students and 40 lecturing staff in 1918, SU today is home to 10 faculties, a dynamic community of more than 31 000 students and 3 000 staff members, spread over five campuses in the region.

We thank everyone who has helped to mould this institution and cement its reputation as a world-class academic institution. At the same time, SU acknowledges its contribution towards the injustices of the past. For this we have deep regret. We apologise unreservedly to those who were excluded from the historical privileges that SU enjoyed. We also honour the critical Matie voices of that time who would not be silenced despite being ostracised. And in responsibility towards the present and future generations, SU commits itself to the ideal of an inclusive, world-class university in and for Africa.

SU is your academic home. Please remain an active member of the Matie family via our alumni website, social media and regular alumni functions. Keep the alumni office (alumni@sun.ac.za) updated with your latest contact details so that you can receive invitations, newsletters and the SU alumni magazine, *Matieland*. Studies have shown that involvement in strong alumni networks pays dividends in terms of professional development.

Our best wishes accompany you!

Prof Wim de Villiers
Rector and Vice-Chancellor

Mthwali-sidanga we-Matie othandekayo

Siyavuyisana nawe ngesingqini-mfundo oza kuyifumana apha namhlanje. Wena ungumzekelo wobalaselo ezamela wona le Yunivesithi yaseStellenbosch (SU). Sinebhongo ngawe!

Yinxalenye yeqela elikhethekileyo kakhulu, kuba iYunivesithi ibhiyozela iKhulu layo leminyaka kulo nyaka. Ukuqalela kwiifakhalithi ezine, abafundi abangama-503 kunye nabasebenz abangabahloli abangama-40 ngo-1918, i-SU namhlanje ilikhaya kwiifakhalithi ezili-10, uluntu olunamandla lwabafundi abangaphezulu kwama-31 000 kunye nabahloli abangama-3 000, abathe tshitshilili kwiikhampasi ezintlanu kummandla.

Sibamba ngazo zozibini kuye wonke ubani oye wanceda ekubumbeni eli ziko waza waqinisa igama lalo lodumo njengeziko lezemfundo elikumgangatho wehlabathi. Kwangaxesha linye, i-SU iyazivuma izenzo zayo ezigwenxa zexesha eladlulayo. Sinokuzisola okunzulu ngako konke oku. Sixolisa ngokungazenzisiyo kwabo bathi bakhutshelwa ngaphandle kumalungelo awodwa ezembali eyathi yawaxhamla i-SU. Sikwanayo nembeko ngamazwi abalulekileyo e-Matie yelo xesha eyathi ayabi nako ukuvalwa umlomo nakubeni yayikhutshelwa ngaphandle isenziwa ikheswa. Kwakhona ngakuxanduva lwexesha langoku nelezizukulwana ezizayo, i-SU iyazibophelela kwingcinga yoqukwano, iyunivesithi ekumgangatho wehlabathi eAfrika nekwayeAfrika.

I-SU iya kuhlala ilikhaya lakho kwezemfundo. Nceda uhlale ulilungu lethu elikhuthelelo losapho lwe-Matie ngokuqhagamshelana nathi ngewebhusayithi yethu ye-alumni, amajelo eencoko kwakunye nemicimbi ye-alumni, ebanjwa rhoqo. Hlala uyazisa iofisi ye-alumni (alumni@sun.ac.za) ngeenkcukacha zakho ukuze ukwazi ukufumana izimemo, iincwadi zeendaba kwakunye nemagazini yethu ye-alumni i-Matieland. Uphando lubonisile ukuba ukuzibandakanya kakhulu kuthungelwano lwe-alumni kuhlalwula izabelo ngokwemiqathango yophuhliso lobungcali.

Iminqweno yethu emihle mayihambe nawe!

Njing Wim de Villiers
INqununu noSekela-Tshansila

Visie 2030

Ons sien die Universiteit Stellenbosch as 'n inklusiewe, innoverende en toekomsgerigte plek van ontdekking en uitnemendheid waar sowel personeel as studente denkleiers is wat tot diens van alle belanghebbers kennis bevorder.

Missie

Ons streef om ons visie van die Universiteit Stellenbosch te verwesenlik deur volgehoue transformasie en, op ons ontdekkingsreis deur die akademie tot diens van ons belanghebbers, onderneem ons om:

- 'n akademiese gemeenskap te skep waarin sosiale geregtigheid en gelyke geleenthede tot sistemiese volhoubaarheid lei;
- toepaslike en volhoubare benaderings tot Afrika-ontwikkeling te ondersoek en innoverend toe te pas;
- ons navorsing te rig volgens die volle spektrum uitdagings waarmee die wêreld, Afrika, ons land en die plaaslike gemeenskap te kampe het;
- student- en toekomsgerigte leer en onderrig, wat 'n passie vir lewenslange leer vestig, te handhaaf;
- in die innoverende akademieskap en kreatiewe vermoëns van al ons mense te belê;
- die inherente krag van diversiteit te ontgin; en
- sinergistiese netwerke te vestig en uit te bou, waarin die Universiteit 'n dinamiese vennoot is.

Vision 2030

We see Stellenbosch University as an inclusive, innovative and future-focused place of discovery and excellence, where staff and students are thought leaders in advancing knowledge in service of our stakeholders.

Mission

We strive to achieve our vision for Stellenbosch University through sustained transformation and, on our journey of discovery through academia in the service of our stakeholders, we have resolved to:

- create an academic community in which social justice and equal opportunities will lead to systemic sustainability;
- investigate and innovatively implement appropriate and sustainable approaches to the development of Africa;
- align our research with a wide-ranging spectrum of challenges facing the world, Africa, our country and the local community;
- maintain student-centred and future-oriented learning and teaching that establish a passion for lifelong learning;
- invest in the innovative scholarship and creative ability of all our people;
- leverage the inherent power of diversity; and
- establish and extend synergistic networks in which our University is a dynamic partner.

Umbono 2030

Sibona iYunivesithi yaseStellenbosch njengendawo equkayo, yezinto ezintsha kunye negxile kwikamva yokufumana neyobalaselo, apho abasebenzi nabafundi baziinkokheli abanegunya nabaziingcaphephe ekwandiseni ulwazi kwinkonzo yabathathi-nxaxheba bethu.

Umsebenzi

Sizama ukufikelela kumbono wethu ngeYunivesithi yaseStellenbosch ngenguquko ezinzileyo kwaye, ngohambo lwethu lokufumana ngemfundo kwinkonzo yabathathi-nxaxheba bethu, sikuxazulule:

- ukudala uluntu lwezemfundo ekulapho ubulungisa bezentlalo kunye namathuba alinganayo aya kukhokelela kwinkqubo yozinzo;
- ukuphanda nokuphumeza ngezinto ezintsha iindlela ezifanelekileyo nezinozinzo kuphuhliso lweAfrika;
- ukulungelelala uphando lwethu kunye noluhlu olubanzi lwemingeni ejongene nehlabathi, iAfrika, ilizwe lethu kwakunye noluntu lwasekuhlaleni;
- ukulondoloza ukufunda nokufundisa okugxile kumfundi nokujonge kwikamva okumisela uthando lokufunda kubomi obude;
- ukwenza inzuzo kubufundi bokuvelisa izinto ezintsha kunye nobuchule obuyilayo babo bonke abantu bethu;
- ukuxhathisa amandla akhoyo okungafani; kwakunye
- nokumisela nokwandisa uthungelwano oluhlangeneyo ekulapho iYunivesithi yethu ingumlingane onamandla.

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 DJ Malan, MA, DPhil

(waarnemend | acting)

Regsgeleerdheid | Law

Prof N Smit, BLC, LLB, LLD

Teologie | Theology

Prof RW Nel, BA, BTh, MTh, DTh

Interessanthede van die plegtighede

Die prosesie, almal in akademiese drag, word so opgestel dat die mees junior lede eerste instap, maar die mees senior lid (gewoonlik die Kanselier of Visekanselier) lei die prosesie uit ná die plegtigheid.

By middeleeuse universiteite was die *cappa clausa*, 'n moulose mantel wat bo-oor 'n toga gedra is, die eerste vorm van akademiese drag. In die 16de eeu het Oxford en Cambridge weggedoen met die mantel en het akademiese drag bestaan uit die toga met moue, 'n kap met 'n lang 'stert' om die skouers en 'n hooftooisel. Streng riglyne het die ontwerp en kleure van akademiese drag bepaal. Hierdie tradisie het dus uit Europa oorgespoel na Suid-Afrika. Om ook erkenning te gee aan die Universiteit Stellenbosch se rol as integrale deel van die Afrika-vasteland, is die ampsdraers se togas herontwerp en met eenvoudige Afrika-motiewe geborduur.

Die taal verryk ook hierdie seremonie met interessante terme. Graduandi (persone wat op die punt staan om 'n graad te ontvang) stap met 'n kap oor die arm na die verhoog. Sodra die graad toegeken is, word die kap om die skouers van die graduati (persone wat pas 'n graad ontvang het) gehang. U kan elke fakulteit se kandidate uitken aan die kleur van die eerste graad se kap. Die honneursgraad se kap het 'n dubbele streep, die magistergraad s'n is swart met 'n geel satynvoering en die doktorsgraad s'n is maroen met geel satyn binne. Kandidate wat doktorsgrade ontvang, dra rooi togas.

Nuwe alumni kan gerus die alumni se webwerf, www.matiesalumni.com, dophou vir interessante nuus en konvokasievergaderings.

Interesting ceremonial details

The procession, wearing academic dress, is set up so that the junior members walk in first, although the most senior member (usually the Chancellor or Vice-Chancellor) leads the procession out after the ceremony.

The *cappa clausa*, a sleeveless cloak that was worn over a toga, was the first form of academic dress in mediaeval universities. Oxford and Cambridge got rid of the cloak in the 16th century and academic dress then consisted of a toga with sleeves, a hood with a long 'tail' around the shoulders and a headdress. Strict guidelines determined the design and colours of academic dress. This tradition therefore came to South Africa from Europe. So as to acknowledge the role played by Stellenbosch University as an integral part of the African continent, the togas of the office-bearers were redesigned and embroidered with simple African motifs.

The language used also enriches the ceremony with interesting terms. Graduands (people who are on the point of receiving a degree) walk to the stage with the hood draped over their arm. As soon as the degree has been conferred, the hood is draped around the shoulders of the graduates (people who have just been awarded a degree). The candidates of the various faculties can be recognised by the colour of the hood for the first degree. The hood for an honours degree has two stripes, while that for a master's degree is black with a yellow satin lining. The hood for a doctorate is maroon with a yellow satin lining, while candidates receiving doctorates wear red togas.

New alumni should keep an eye on the alumni website, www.matiesalumni.com, for interesting news and information about convocation meetings.

Inkcukacha enomdla malunga nemisitho

Umkhosi wemithika, onxibe umthika wemfundo, wenziwe ngohlobo lokuba amalungu asematsha ahambe kuqala, nangona elona lungu liphezulu kakhulu (lidla ngokuba yiTshansila okanye okanye liSekela-Tshansila) likhokela umkhosi wemithika ukuphuma emva komsitho.

I-*cappa clausa*, isambatho esingenamikhono esasinxitywa ngaphezu kwesinxibo somsitho (i-toga), sasiluhlobo lokuqala lesinxibo somthika wemfundo kwiiyunivesithi zamandulo. I-Oxford ne-Cambridge yahlukana neso sambatho kwinkulungwane ye-16 nomthika wemfundo owawunesinxibo esinemikhono, umxakatho 'onesisila' eside emagxeni nesinxibo sasentloko. Yimiyalelo engqongqo emiselwe uyilo nemibala yomthika wemfundo. Esi sithethe ngoko seza eMzantsi Afrika sisuka emaNtla. Ukuze sothulele umnqwazi iYunivesithi yaseStellenbosch ngendima eyidlalileyo njengenxenye egqibeleleyo yelizwekazi laseAfrika, izinxibo zomsitho (ii-toga) zamagosa olawulo zaphinda zayilwa ngokutsha zahonjiswa ngeemihombiso yesiAfrika.

Ulwimi olusetyeziswayo nalo luchumisa umsitho ngamagama enza umdla. Abathweswa izidanga baya eqongeni bethe bhije imixakatho ezingalweni zabo. Sakuba sinikeziwe isidanga, umxakatho uthiwa hatya emagxeni abo banikezwe izidanga. Abathweswa izidanga beefakhalthi ezahlukeneyo bangabonwa ngombala womxakatho kwisidanga sokuqala. Umxakatho wesidanga seenazi unemigca emibini, ngelixa owesidanga semastazi umnyama unomaleko otyheli wesatini. Umxakatho wesidanga sobugqirha umaruni unomaleko otyheli wesatini, ngelixa abathweswa izidanga zobugqirha nabo benxiba izinxibo zomsitho ezibomvu.

Abo bangabathwali-zidanga abatsha bamelwe kukuqwalasela kwiwebhusayithi yabo babesakuba ngabathwali-zidanga (alumni), www.matiesalumni.com, ukufumana iindaba ezinika umdla kunye nenkcukacha emalunga neentlanganisano zekhonvokheyishini.

Diploma- en Gradeplegtighede | Diploma and Graduation Ceremonies

1. 13 Desember | December 2018 (10:00)

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

(Slegs Drama, Musiek en Visuele Kunste | Only Drama, Music and Visual Arts)

Doktorsgrade Doctorates	11
Ander kwalifikasies Other qualifications	16

Fakulteit AgriWetenskappe | Faculty of AgriSciences

Doktorsgrade Doctorates	12
Ander kwalifikasies Other qualifications	18

Fakulteit Regsgeleerdheid | Faculty of Law

Eregraad Honorary Degree	10
Zakeria (Zak) Yacoob	
Doktorsgrade Doctorates	15
Ander kwalifikasies Other qualifications	22
(Uitsluitend BA (Regsgeleerdheid), BCom (Regsgeleerdheid) en BRekLLB Excluding BA (Law), BCom (Law) and BAccLLB)	
Kanselierstoekenning Chancellor's Award	24

2. 13 Desember | December 2018 (17:30)

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

Eregrade Honorary Degrees	28
Homi Bhabha Glynis Marie Breakwell	
Doktorsgrade Doctorates	30
Ander kwalifikasies Other qualifications	34
(Insluitend BA (Regsgeleerdheid) Including BA (Law))	
Kanselierstoekenings Chancellor's Awards	41

3. 14 Desember | December 2018 (10:00)

Fakulteit Teologie | Faculty of Theology

Doktorsgrade Doctorates	46
Ander kwalifikasies Other qualifications	50

Fakulteit Ingenieurswese | Faculty of Engineering

Doktorsgrade Doctorates	47
Ander kwalifikasies Other qualifications	51
Kanselierstoekenings Chancellor's Awards	56



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

1

13 Desember | 13 December

10:00

Fakulteite

Lettere en Sosiale Wetenskappe

(Slegs Drama, Musiek en Visuele Kunste)

AgriWetenskappe

Regsgeleerdheid

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

Faculties

Arts and Social Sciences

(Only Drama, Music and Visual Arts)

AgriSciences

Law

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

1

PROGRAM

- | | |
|------------------------|--|
| <i>Staan asseblief</i> | 1. Akademiese prosesie kom die saal binne. |
| <i>Staan asseblief</i> | 2. Sing van die Nasionale Lied (kyk aan die binnekant van die agterblad). |
| <i>Sit asseblief</i> | 3. Konstituering deur die Viserektor. |
| | 4. Verwelkoming deur die Viserektor en dr Ntozakhe Cezula. |
| | 5. Voorstelling van die eredoktorandus en toekenning van die eregraad deur die Viserektor. |
| | 6. Voorstelling van kandidate wat kwalifikasies ontvang deur die dekaan van die fakulteit en die toekenning van kwalifikasies deur die Viserektor. |
| | 7. Voorstelling van die kandidate vir Kanselierstoekenning en oorhandiging van die toekenning deur die Viserektor. |
| | 8. Sluiting deur die Viserektor. |
| <i>Staan asseblief</i> | 9. Akademiese prosesie verlaat die verhoog. |

PROGRAMME

- | | |
|---------------------|--|
| <i>Stand please</i> | 1. Entrance of academic procession into the hall. |
| <i>Stand please</i> | 2. Singing of the National Anthem (see inside back cover). |
| <i>Sit please</i> | 3. Congregation formally constituted by the Vice-Rector. |
| | 4. Welcome by the Vice-Rector and Dr Ntozakhe Cezula. |
| | 5. Presentation of the candidate for the honorary doctorate and conferment of the honorary degree by the Vice-Rector. |
| | 6. Presentation of candidates receiving qualifications by the dean of the faculty and conferment of qualifications by the Vice-Rector. |
| | 7. Introduction of the candidates for Chancellor's Awards and presentation of awards by the Vice-Rector. |
| | 8. Closing by the Vice-Rector. |
| <i>Stand please</i> | 9. The academic procession leaves the stage. |

Fakulteit Regsgeleerdheid *Faculty of Law*

**Die graad Doktor in die Regsgeleerdheid (LLD) *honoris causa*, aan
The degree Doctor of Laws (LLD), *honoris causa*, to**

ZAKERIA (ZAK) YACOOB

vir sy uitnemende bydrae as regsgeleerde op die gebied van menseregte en staatsreg, vir sy unieke, genuanseerde en internasionaal inspirerende benadering tot die beregting van sosio-ekonomiese regte, en vir sy rol as gerekende kampvegter vir sosiale geregtigheid en die welsyn en regte van persone met gestremdhede.

Regter Zakeria ("Zak") Yacoob het as uitsonderlike regsgeleerde Suid-Afrika na demokrasie help lei, en deur mylpaaluitsprake tot 'n regsraamwerk bygedra wat Suid-Afrika se diepgewortelde sosio-ekonomiese nalatenskap van apartheid help hanteer het.

In die aanloop tot demokrasie, dien hy eers in die Tegnieëse Komitee oor Fundamentele Regte in die veelpartyonderhandelingsproses, en later as lid van die Onafhanklike Paneel van Grondwetkenners, help los hy dooie punte in die Grondwetlike Vergadering op en bied advies oor die skryf die Grondwet van 1996.

Sy aanstelling as Konstitusionele Hof-regter in 1998 lui 15 jaar van uitsonderlike diens en invloedryke bydraes tot Suid-Afrikaanse regspraak oor sosio-ekonomiese regte in. Hy ontwikkel 'n unieke model van redelikheidsoorsig wat 'n middeweg vind tussen die regering se rol om sosio-ekonomiese regte te verwesenlik en die houe se rol om die regering daarvoor aanspreeklik te hou. Hierdie genuanseerde benadering tot die beregting van sosio-ekonomiese regte het selfs as inspirasie gedien vir die aanvaarding van nuwe internasionale meganismes in die menseregtereg, soos die Opsionele Protokol by die Internasionale Verdrag oor Ekonomiese, Maatskaplike en Kulturele Regte, een van die Verenigde Nasies se belangrikste menseregteverdrae.

Yacoob, wat sedert babadae met blindheid saamleef, is ook 'n gerekende kampvegter vir die welsyn en regte van persone met gestremdhede en is onder meer 'n voormalige voorsitter van die Suid-Afrikaanse Nasionale Raad vir Blindes.

Regter Zak Yacoob, 'n uitnemende juris en betrokke in sy burgerskap, verdien die Universiteit Stellenbosch se hoogste eer vir sy diensbare leierskap en bydrae tot demokrasie, menseregte en maatskaplike geregtigheid.

for his outstanding contribution as jurist in the field of human rights and constitutional law, for his unique, nuanced and internationally inspiring approach to adjudicating socio-economic rights, and for being a respected champion for social justice and the welfare and rights of persons with disabilities.

As an exceptional jurist, Justice Zakeria ("Zak") Yacoob helped steer South Africa into democracy and, through landmark judgments, towards a legal framework that aids in addressing the deeply entrenched socio-economic legacy of apartheid.

With democracy beckoning, he first served on the Technical Committee on Fundamental Rights in the multi-party negotiating process, and later the Independent Electoral Commission that organised the first democratic South African elections. As a member of the Independent Panel of Constitutional Experts, he helped break deadlocks in the Constitutional Assembly and advised on the drafting of our 1996 Constitution.

His appointment as justice of the Constitutional Court in 1998 signified the start of 15 years' distinguished service and seminal contributions to South Africa's jurisprudence on socio-economic rights. He developed a unique model of reasonableness review, balancing government's role to give effect to socio-economic rights with the courts' role to hold government accountable for doing so. This nuanced approach to adjudicating socio-economic rights even inspired the adoption of new international human rights law mechanisms, such as the Optional Protocol to the International Covenant on Economic, Social and Cultural Rights, a core United Nations human rights treaty.

Having lived with blindness since the age of 16 months, Yacoob is also a respected champion for the welfare and rights of persons with disabilities, and is a former chairperson of the South African National Council for the Blind.

An excellent jurist and active citizen, Justice Zak Yacoob's leadership in service of others and contribution to the promotion of democracy, human rights and social justice in South Africa have earned him Stellenbosch University's highest honour.

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

Doktor in die Wysbegeerte

Doctor of Philosophy

BAKARE, Babatunde Allen (Drama and Theatre Studies)

A critical inquiry into the evolution of socio-political performances in traditional Nigeria Yoruba Alarinjo and contemporary itinerant theatre through a review of selected works of Hubert Ogunde, Wole Soyina, Ola Rotimi and Femi Osofisan

This study examined the evolution of socio-political theatre and drama performances in Nigeria. It specifically focused on traditional Yoruba Alarinjo (travelling) theatre, contemporary itinerant theatre and selected works of four Nigerian dramatists. The framework of the study was based on the three concepts of the theatrical event, theatre as polysystems and the festivalising process. This study concluded that the types of performance modes, styles, methods and techniques are rooted in the vast Yoruba cultural and traditional forms of performing arts. Lastly, this study analysed and revealed the influence of Western education on the mentioned Nigerian dramatists' theatre and drama.

Supervisor: Prof P du Preez

MULLER, Wayne (Music)

A reception history of opera in Cape Town: Tracing the development of a distinctly South African operatic aesthetic (1985–2015)

This study traced the development of South African operatic expression through the reception of operas performed in Cape Town during the post-apartheid era. Viewed through the lens of opera reviews published in two Cape Town daily newspapers, the research made concrete assertions about what this developing South African operatic aesthetic entails. It shows that there has been, over a 30-year period, a productive tension between Western art music and indigenous African music that characterises the development of a local operatic ideal, with new music consistently being viewed as either following the traditions of Western art music or countering those traditions.

Supervisor: Prof SjvZ Muller

PEROLD-BULL, Karolien (Visual Arts)

Thinking about, with and through design: A cartography for transformation

The research critically explored design education in the context of transformation at Stellenbosch University through practising design research and education geared at productive change within the institution in an integrated manner. It provided an example of how the practice of post-qualitative design research can embody transformative teaching and learning within South African higher education. The research therefore makes a productive contribution to the development of local design theory and pedagogy for design education, specifically within a neoliberal, post-apartheid context.

Supervisor: Prof E Costandius

RESARIO, Rashida (Drama and Theatre Studies)

The intercultural performance activities of the Ghana Dance Ensemble (1964–2014)

This study examined the intercultural practices of the Ghana Dance Ensemble from 1964 to 2014. It is argued that, as the diverse ethnic groups in Ghana have distinct cultural traditions and languages, interactions between these cultures at the level of performance qualify for discussion as intercultural performance. The study defined the inter-ethnic performance activities of the Ghana Dance Ensemble in the nation as micro-intercultural performance and the international exchanges and performance activities as macro-intercultural performance. This view suggests that parallels exist between discourses on intercultural practice at the macro level and inter-ethnic performance within the nation.

Supervisor: Prof P du Preez

Doktor in die Wysbegeerte Doctor of Philosophy

ALEXANDER, Lara (Food Science)

The contribution of phenolics to the bitter taste of honeybush (Cyclopia genistoides) herbal tea

This study aimed to prove the role of bioactive phenolic compounds in the bitterness of honeybush tea, specifically *Cyclopia genistoides*. By applying advanced chemical, sensory and statistical analyses, novel bitter tastants and modulators were identified, providing insight into the interplay between compounds in an infusion. A robust statistical model was also developed to predict the bitterness intensity of honeybush tea infusions, based on the concentration of five phenolic compounds. The knowledge gained will aid the ARC's honeybush breeding programme in selecting plants with a low bitterness potential for propagation and cultivation, benefitting the South African honeybush industry.

Supervisor: Prof E Joubert

Co-supervisors: Prof D de Beer and Ms M Muller

DLAMINI, Bonginkhosi Edward (Entomology)

Potential of entomopathogenic nematodes and fungi for the control of the banded fruit weevil, Phlyctinus callosus (Schönherr) (Coleoptera: Curculionidae)

The aim of this study was to establish guidelines for the use of entomopathogenic nematodes and entomopathogenic fungi to control the banded fruit weevil in vineyards and apple orchards in the Western Cape province. Results obtained from surveying the soil samples from the deciduous fruit orchards and vineyards contained both nematode and fungi pathogens that can be used to control the weevil. From laboratory and field trials, both pathogens showed outstanding potential to control the weevil when used alone and in combination, and could provide an economically viable control strategy against the banded fruit weevil.

Supervisor: Dr P Addison

Co-supervisor: Prof AP Malan

HONETH, Chandre (Viticulture)

The impact of UV light on grapevine berry and wine metabolites

Plants use the UVB component of solar radiation to acclimate and mitigate stress responses. In this study, a *Vitis vinifera* Sauvignon Blanc field experiment was used to identify the impacts of UVB on core metabolic processes in the grape berries, juice and wines. Berries acclimated to UVB radiation by using particular metabolites that were specific to the developmental stage of the berries. UVB exposure was shown to be required for the expression of the typical tropical aromas of Sauvignon Blanc. The study provides insight into the transition of metabolites from the grapes to the juice and ultimately the wines in this novel wine-as-a-system analysis.

Supervisor: Prof MA Vivier

Co-supervisor: Dr PR Young

KAGIMU, Nicholas (Nematology)

The development of a formulation for the commercialisation of entomopathogenic nematodes

Entomopathogenic, or insect-parasitic, nematodes can be used as a biocontrol agent against key pest insects. The work on the formulation of South African species investigated the encapsulation of nematodes in alginate beads, and the use of diatomaceous earth (DE). The beads successfully retained the nematodes, while the survival rate for the DE remained high by the fourth week. The formulation optimisation showed high survival with added antifungal agents. The potential for the quality control of formulated nematodes in DE and the characterisation of species using attenuated total reflectance, in conjunction with Fourier transform infrared spectroscopy and hyperspectral imaging tools, were investigated.

Supervisor: Prof AP Malan

MAGOBA, Rozwivhona Faith (Conservation Ecology)

Changes in the Berg River Basin

Historic changes in the Berg River Basin and their influence on river ecosystem structure were investigated. The central hypothesis was that all activities in a river basin landscape contribute either directly or indirectly to the condition (physical, biological or chemical) of rivers that run through them. Changes in land use, channel and riparian flow regime and macroinvertebrates since the 1950s were investigated. The extent of agricultural land has declined, while large tracts of land were left fallow. The floodplain, channel and riparian vegetation were narrower and accompanied by a longer dry season, increased dry-season flow and fewer intra-annual floods. Macroinvertebrate communities have become more tolerant.

Supervisor: Prof KJ Esler

Co-supervisor (external): Prof C Brown

MBANGCOLO, Mongezi Morrison (Agronomy)

The influence of granular and liquid top-dressed nitrogen on nitrogen use efficiency, grain yield and quality parameters of spring wheat (Triticum aestivum L.)

The response of grain yield and grain quality parameters of spring wheat (*Triticum aestivum* L.) to granular and liquid (sprayed) nitrogen (N) topdressings under field and glasshouse conditions was evaluated for three years. In some of the field trials, the liquid N topdressing performed better than the granular N topdressing, but liquid N topdressing never performed poorer than granular N topdressings. Under glasshouse conditions, application of liquid N topdressing significantly improved grain yield. The results indicate that under unfavourable conditions for granular N topdressing, the N topdressing can be applied in liquid form by means of folia applications.

Supervisor: Dr PJ Pieterse

MINNAAR, Phillipus Petrus (Wine Biotechnology)

Microclimate and grape ripeness effects on the phenolic composition of grapes and wine (Vitis vinifera L. cv. Shiraz/101-14 Mgt)

The effects of vineyard row orientation (naturally imposed microclimate) and grape ripeness levels on phenolic compounds of Syrah grapes and wine were studied. Grapes were harvested at ripeness levels of 22° Brix, 24° Brix and 26° Brix from NS-, EW-, NE-SW- and NW-SE-orientated rows and wines made. Phenolics (anthocyanins, flavonols, flavan-3-ols, phenolic acids) were quantified in grape skins and wine by chemical methods (liquid chromatography) and sensory analyses. Quantification methods were found suitable for general application. Although associations of treatments and compounds differed depending on ripeness level, NW-SE and NE-SW orientations manifested best, followed by NS and EW. The results suggest that microclimate and grape ripeness level can be used as tools to manipulate the phenolic composition of grapes and wine, and thus wine style.

Supervisor: Prof JJ Hunter

Co-supervisor: Prof AJ de Villiers

MUDAVANHU, Shepherd (Agricultural Economics)

Sustainable land use planning in the aftermath of the clearing of alien invasive plant species in South Africa: A system dynamics modelling approach

Invasive alien plants have many negative impacts on economic, social and environmental systems globally. This study assessed the impact of future land use options on land cleared from these plants within different contexts and tenure systems. The results show that restoring cleared land and using the cleared biomass to make value-added products offer good prospects to win the battle. As a result, a road map was developed to assist decision makers in making better informed land use planning decisions. This road map will prove useful in diverse contexts that present similar challenges.

Supervisor: Prof N Vink

Co-supervisor (external): Prof JN Blignaut

OTIENO, Nixon (Conservation Ecology)

Assessment of farming systems and cover configuration options that enhance the natural regulation of herbivorous arthropod abundance in maize-fields

Maize is a staple cereal critically important for food security in sub-Saharan Africa, but grown in particular by small-scale farmers. Its production is curtailed by arthropod pest damage, a problem expected to worsen due to global climate change. The study examined farming systems, cropping and structural features that enhance natural arthropod herbivore suppression by predacious arthropods and insectivorous birds in small non-Bt maize farms in western Kenya. Quantitative sampling, stable isotope analysis and bird exclusion experiments showed that more structurally complex organic farms can best support the natural suppression of arthropod herbivores at local farm, though not at landscape scales.

Supervisor: Dr SM Jacobs

Co-supervisor: Dr J Pryke

SCHEEPERS, Gerhardus Petrus (Forest Science)

Fertilisation of semi-mature Pinus elliottii and Pinus elliottii x caribaea stands on a climatic gradient in the Tsitsikamma and its effect on system nutrition and stand productivity

Factors that govern the response to fertilisation in semi-mature pine stands of the Tsitsikamma were investigated. Growth responses in eight experimental stands were correlated to several climatic, soil and stand-based indices of soil water, nitrogen and phosphorus availability. Soil pH strongly limits the natural ability of soils to mineralise nitrogen in this region, but soil water is not limiting tree growth. Significant correlations were observed between (a) tree growth response to fertilisation and (b) the total soil nitrogen, anaerobically incubated nitrogen and aerobically incubated phosphorus estimates. These indices can potentially be used to improve the precision of regional fertiliser applications.

Supervisor: Prof B du Toit

Co-supervisor: Dr D Drew

STANDER, Ockert Petrus (Horticultural Science)

Critical factors concomitant to the physiological development of alternate bearing in citrus (Citrus sp.)

'Alternate bearing' is a production phenomenon adversely affecting citrus production. The roles of carbohydrates, nutrients and phytohormones in the alternate bearing of Nadorcott mandarin were investigated. Crop load was affected by flower intensity. Flowering was affected by summer vegetative shoot growth and floral bud development during winter. The lack of vegetative shoot development was unrelated to carbohydrates or nutrients. Auxins inhibited vegetative shoot development, possibly acting synergistically with abscisic acid, and negated the effect of cytokinins. High gibberellin concentration in leaves in winter contributed to the inhibition of flowering, whereas gibberellin-biosynthesis inhibitors increased flowering and reduced the negative impact of alternate bearing.

Supervisor: Dr P Cronje

Co-supervisor (external): Dr G Barry

UISSO, Amani Jackson (Forest Science)

Community perceptions of effectiveness of participatory land use plans in enhancing the management and conservation of village land forest reserves in Kilosa District, Tanzania

Climate change is a global phenomenon. This study conducted in Tanzania evaluated linkages between participatory land use plans and village land forest reserves management and conservation in the context of the Reduced Emissions from Deforestation and Forest Degradation (REDD+) initiative and associated non-carbon benefits (NCBs) – a climate change measure. The results established the importance of using participatory approaches in creating awareness and ensuring community engagement in the implementation of the plans and associated activities. This will ultimately enhance forest management and conservation. It was also evident that the REDD+ initiative implementation should take NCBs to the community into account, apart from carbon financing.

Supervisor: Prof P Chirwa

Co-supervisor: Prof P Ackerman

VAN ZYL, Karlien (Plant Pathology)

Genetics of fumonisin biosynthesis and resistance to Fusarium verticillioides in maize

Fusarium verticillioides, a fungus that infects maize plants and reduces yield and quality, also contaminates maize grain with mycotoxins called fumonisins. The biosynthesis of fumonisins was investigated using random insertional mutagenesis, and plasmid integration was assessed by whole-genome sequencing. The expression of defence-related genes in a resistant and susceptible maize inbred line was compared by transcriptome sequencing at five infection stages. Pathogen recognition and redox homeostasis were more pronounced in the resistant inbred line. During the necrotrophic phase of infection, the plant responded by activating the jasmonic acid/ethylene signalling pathway and inducing genes that modulate programmed cell death.

Supervisor: Prof A Viljoen

Co-supervisor: Dr LJ Rose

VORSTER, Carlien (Conservation Ecology)

A practical tool for evaluating freshwater health and biodiversity across Africa

Freshwater systems across Africa are under threat of deterioration. They can be monitored for their quality using an index based on their component dragonfly species. An index was developed for use across the entire African continent. This index is based on each species' geographical distribution, habitat sensitivity, and Red List status, leading to a range of scores. The combination of all species' scores in a freshwater system indicates its quality and the conservation actions that should be taken to rectify the system. The index was then tailored to individual countries for finer-scale, practical implementation.

Supervisor: Prof MJ Samways

Co-supervisor (external): Dr J Simaika

**Doktor in die Wysbegeerte (Voedselwetenskap)
Doctor of Philosophy (Food Science)**

HENNING, Sune St Clair (Food Science)

Investigation of the prevalence and characterisation of infection by Kudoa thyrsites and K. paniformis in South African marine species

Infection of marine fish species with the parasite *Kudoa thyrsites* results in severe post-mortem protein breakdown. This phenomenon is commonly referred to as "pap snoek". Although harmless to humans upon consumption, this parasite results in economic losses in especially the South African sardine-canning industry. A primer set specific towards *K. thyrsites* was designed for use in a qPCR method to qualitatively determine the prevalence of this parasite in South African sardines, Cape hake and South African kingklip. Near infrared spectroscopy was used to evaluate spectra of infected and uninfected fish samples. This study presents the first report of *K. thyrsites* in South African kingklip.

Supervisor: Prof M Manley

Co-supervisor: Dr M Krügel

Doktor in die Wysbegeerte Doctor of Philosophy

BROWN, William (Mercantile Law)

Legal certainty and competition law: Can they be reconciled?

Laws should be sufficiently clear and predictable so that individuals can plan their conduct in the knowledge of the legal consequences that will flow from it. A high degree of legal clarity is required of competition laws because of the harsh consequences that may ensue for those who contravene them. However, the competition laws of the European Union, Australia, Canada, South Africa and Hong Kong lack necessary certainty and predictability. The existing methods used to bring greater clarity into competition laws, or mitigate the adverse effects of lack of clarity, have not been fully effective. Hence, this study proposes a new way forward.

Supervisor: Prof PJ Sutherland

BRUWER, Elizabeth Susanna (Private Law)

Settlor control and trustee liability: An analysis of English and offshore trust law with indicators for the development of South African trust law

The study examined the development and current state of the trust law of South Africa and England and the off-shore jurisdiction of Jersey, with particular focus on the nature of the trustee's obligations and liability for breach of trust as well as the phenomenon of excessive control by the trust's settlor. It analysed changes in the way trusts are being used and questioned whether the boundaries of the traditional trust concept are being pushed too far. In conclusion, the suggestion is made that South African trust law may benefit from enhanced trustee independence, especially to prevent possible trust abuse.

Supervisor: Prof MJ de Waal

FAWOLE, Charissa Esther (Private Law)

A critical analysis of state responsibility to internally displaced children in Africa

The findings in this study lay the foundation to improve the interpretation and implementation of the law applicable to internally displaced children. Focusing on the legal obligations of states, the primary duty-bearers to internally displaced children, the study included a critical analysis of the key legal instruments applicable to internally displaced children in Africa and used a children's rights perspective as its theoretical lens. To assess the extent to which states can be held accountable for their legal obligations, the study included an examination of the theoretical and practical application of the principle of accountability in this context.

Supervisor: Prof CS Human

KAVURO, Callixte (Public Law)

Refugees' access to socio-economic rights: Favourable treatment for the protection of human dignity

The study examined the question whether and to what extent refugees and asylum-seekers are entitled to socio-economic rights and benefits. It did so in view of relevant international refugee and human rights conventions, the tension between the constitutional rights and values of human dignity and equality, and the exclusionary approach characterising immigration law and some of the legislation conferring socio-economic rights and benefits. Focusing in particular on the rights of access to public relief and assistance (i.e. social assistance), healthcare and adequate housing, it recommends certain amendments to the relevant legislation in order to harmonise it with the Constitution and the Refugees Act 130 of 1998.

Supervisor: Prof H Botha

VAN DER LINDE, Delano (Public Law)

Criminal gang activities: A critical and comparative analysis of the statutory framework under South African criminal law

Criminal gang activities affect communities throughout South Africa, especially in the Western Cape province. The Prevention of Organised Crime Act (POCA) was adopted in 1998 to deal with organised criminality, including gang activities. While the underlying causes of the phenomenon of criminal gang activities are complex in nature, the study found POCA, as a criminal justice response to criminal gangs, to be inadequate. With reference to comparative and international criminal law, a convincing argument was developed for the amendment of POCA to make it more suitable as a response to the organisational, systemic and leadership aspects that sustain the phenomenon of criminal gangs.

Supervisor: Prof GP Kemp

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

Magister in die Wysbegeerte **Master of Philosophy**

Wiese, Anka (Music Technology)

Magister in die Musiek Cum Laude **Master of Music Cum Laude**

Kirsten, Beatrix Mari

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

Albertze, Du Toit (Drama and Theatre Studies)
Conradie, Gizela (Drama and Theatre Studies)
Crous-Delport, J  maine (Drama and Theatre Studies)
Dell, Bianca (Drama and Theatre Studies)
Green, Beata Bena (Drama and Theatre Studies)
Plaatjies, Hunter Sam Sage (Drama and Theatre Studies)
Scholtz, Melanie Je-Nay (Drama and Theatre Studies)
Solomons, Jodecee Lesleyany (Drama and Theatre Studies)
Van der Merwe, Ansa-Let (Drama and Theatre Studies)
Van der Merwe, Danya (Drama and Theatre Studies)
Van Vuuren, Elizabeth (Drama and Theatre Studies)

Honneurs-baccalaureus in die Lettere en Wysbegeerte Cum Laude **Bachelor of Arts Honours Cum Laude**

De Necker, Marichje (Drama and Theatre Studies)
Du Plessis, Marilize (Drama and Theatre Studies)
Marais, Jamie Emily (Drama and Theatre Studies)

Honneurs-baccalaureus in die Musiek **Bachelor of Music Honours**

Stevens, Joshua

Baccalaureus in die Lettere en Wysbegeerte **Bachelor of Arts**

Arendse, Ashwin Albert
Baadjies, Patricia Kaylen
Baartman, Shade
Beyleveld, Magda Louise
Botha, Anya-Larissa
Clinton, Imogen
Cotton, Andahr
Davids, Tayleigh
De Waal, Dane
Du Plessis, Robyn
Haf, Ceska Corene
Human, Zo   Demi
Jansen, Kyla
Jepthas, Veronique Bianca
Johnson, Elmarie Benice
Joubert, Timonique
Kinniar, Faith Sharon
Koster, Megan Jane

Kotze, Margo
Lamohr, Adeline
Langeveldt, Shannon Rochelle
Le Fleur, Tina
Louw, Tessa
Mac Donald, Meghan
Mans, Leanka
Nel, Kirsty Chant  
Nieuwoudt, Hendrik
Oosthuizen, Elm  
Patrick, Rebecca
Philander, Tayme Shanyghe
Pienaar, Kristin
Pretorius, Jenna Charlotte
Reed, Destiney Rowena
Rossouw, Robyn Aimee
Smith, Carla
Swartz, Devonecia
Van Diemel, Emily-Rose Vianca
Van Heerden, Willem Conradie
Van Jaarsveld, Roelien
Van Rooyen, Greta Mari
Van Schalkwyk, Julia Catharina

Baccalaureus in die Lettere en Wysbegeerte Cum Laude **Bachelor of Arts Cum Laude**

Bradshaw, Mirella Elizabeth
De Bruijn, Lara
Forsyth, Megan Courtney
Fox-Martin, Amber Dawn

Baccalaureus in die Musiek **Bachelor of Music**

Brand, Christian Johannes
Coetsee, Hendrik Jacobus
Hanekom, Jolandi
Mertens, Rachel Helen
Reigl, Caterina
Topkin, Kevin Adam
Van der Walt, Alida
Van Wyk, Nicole Michelle
Veldsman, Hugo De Villiers

Baccalaureus in die Musiek Cum Laude **Bachelor of Music Cum Laude**

Daniels, Jessica
Davids, Ferroll-Jon
Du Plessis, Anna Johan
Pienaar, Marina
Schoeman, Trudette
Schoonees, Carlie
Smit, Rian
Theron, Marlise

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

Antrobus, Jenna Page (Visual Communication Design)
Aufrechtig, Keyla (Visual Communication Design)
Baard, Corlia Gerda (Creative Jewellery and Metal Design)
Barkhuizen, Milena (Creative Jewellery and Metal Design)
Brand, Rosa Hermiena Maria (Visual Communication Design)
Burger, Emma Willemien (Visual Communication Design)
Carstens, Mckayla (Fine Arts)
Coerecius, Mikhaila Amyone (Visual Communication Design)
Deaney, Rushda (Fine Arts)
Dedyurina, Ksenia (Visual Communication Design)
Fok Seang, Catherine May (Visual Communication Design)
Goss, Grace (Creative Jewellery and Metal Design)
Jackson, Bradley (Fine Arts)
Jones, Meagan Nicole (Visual Communication Design)
Kapp, Jessica Storm (Fine Arts)
Labuschagne, Nericke (Fine Arts)
Landsberg, Lara Daryl (Creative Jewellery and Metal Design)
Marais, Ilona (Visual Communication Design)
Mashange, Bongani Percy Tendai (Creative Jewellery and Metal Design)
Naude, Lynn-Mari (Visual Communication Design)
Nesbitt, Keegan Ryan (Visual Communication Design)
Neser, Liam Vivian (Fine Arts)
Pike, Amy (Fine Arts)
Potgieter, Estelle (Fine Arts)
Pryde, Shelley Lesley (Visual Communication Design)
Quinlan, Ronan Barrington (Visual Communication Design)
Rist, Ewald Winston (Visual Communication Design)
Russell, Megan Anne (Visual Communication Design)
Scharf, Katharine-Anne Renate (Fine Arts)
Serfontein, Megan (Fine Arts)
Skein, Estee (Fine Arts)
Tucker, Dean Michael (Visual Communication Design)
Van Heerden, Katuska Kovacs (Creative Jewellery and Metal Design)
Venter, Naleen (Creative Jewellery and Metal Design)
Verfaillie, Simone Anna Maria (Fine Arts)
Von Mollendorff, Carmyn Carlisle (Fine Arts)
Wellman, Alexis (Visual Communication Design)
Young, Chelsea Anne (Fine Arts)

Baccalaureus in die Lettere en Wysbegeerte in Visuele Kunste
Cum Laude

Bachelor of Arts in Visual Arts Cum Laude

Marais, Ulrike Mieke (Visual Communication Design)
McNaught, Hannah Kate (Visual Communication Design)
Middleton, Jessica (Visual Communication Design)
Smith, Gemma Louise (Visual Communication Design)

Diploma in Praktiese Musiek

Diploma in Practical Music

Britz, Karla
Hofmeester, Cameron Cornel
Potgieter, Lyle Desmond
Schroeder, Megan
Swartz, Damien Marco
Williams, Desmond Trevor

Gevorderde Diploma in Praktiese Musiek

Advanced Diploma in Practical Music

Adams, Aneeqah
Paige, Jade
Varrie, Vincent

Gevorderde Diploma in Praktiese Musiek Cum Laude

Advanced Diploma in Practical Music Cum Laude

Munoz, Juan-Francisco

Hoër Sertifikaat in Musiek

Higher Certificate in Music

Nwuko, Sunday Kelechi
Yang, Hayoung Gloria

Hoër Sertifikaat in Musiek Cum Laude

Higher Certificate in Music Cum Laude

Brandao, Gabriela

**Magister in die Natuurwetenskappe
Master of Science**

Cassiem, Asheeqah (Plant Pathology)
Da Costa, Charissa (Sustainable Agriculture)
Janse van Rensburg, Philippe Jacques (Wine Biotechnology)
Ngubane, Nompumelelo Pretty (Entomology)

**Magister in die Natuurwetenskappe Cum Laude
Master of Science Cum Laude**

Boersma, Nevill (Entomology)
Dlamini, Thandwa Menzi (Entomology)
Huysamer, Anton Jean (Entomology)
Petrovic, Gabriella (Wine Biotechnology)

**Magister in die Natuurwetenskappe in Landbou
Master of Science in Agriculture**

Barnard, Yolandi (Viticulture)
Bruwer, Freda Aléta (Oenology)
Dezah, Tatenda Jeofrey (Animal Science)
Gericke, Willem Adriaan (Agronomy)
Magenuka, Lulama (Agronomy)
Matshidze, Mulweli Millicent (Agronomy)
Mthembu, Jabulani Bhakisisa (Genetics)
Ngcamphalala, Wandile (Genetics)
Prins, Michael Du Toit (Horticultural Science)
Sibulali, Ayabonga (Agricultural Economics)
Tohermes, Yves (Agricultural Economics)
Van der Merwe, Albertus Jacobus Wilhelmus (Animal Science)
Verster, Enrike (Agronomy)

**Magister in die Natuurwetenskappe in Landbou Cum Laude
Master of Science in Agriculture Cum Laude**

Botes, Johané (Horticultural Science)
Du Toit, Etienne (Agronomy)
Viljoen, Chame (Agronomy)

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

Lambrechts, Hugo Amos (Forest Science)

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

Olivier, Anel (Conservation Ecology)
Steenkamp, Elani (Conservation Ecology)

**Magister in die Natuurwetenskappe in Bewaringsekologie Cum
Laude**

Master of Science in Conservation Ecology Cum Laude

Nieman, Willem Adriaan (Conservation Ecology)

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

Pfukwa, Trust Mukudzei

**Magister in die Natuurwetenskappe in Voedselwetenskap Cum
Laude**

Master of Science in Food Science Cum Laude

Howell, Shannon Kimlynn
Kammies, Terri-Lee

**Honneurs-baccalaureus in die Natuurwetenskappe
Bachelor of Science Honours**

Erasmus, Barend (Wine Biotechnology)
Froneman, Elzane (Plant Pathology)
Jacobs, Carlynn Melissa (Plant Pathology)
Magwebu, Sinovuyo (Plant Pathology)
McMurtry, Sarah Katherine (Wine Biotechnology)
Mdluli, Putsu Samkelisiwe (Wine Biotechnology)

**Honneurs-baccalaureus in die Natuurwetenskappe Cum Laude
Bachelor of Science Honours Cum Laude**

Carelse, Gray-Lee (Plant Pathology)
Derman, Shannon Skye (Wine Biotechnology)
Oosthuizen, Jennifer Rae (Wine Biotechnology)
Reens, Soné Veniése (Plant Pathology)
Schreuder, Huibrecht Maria (Plant Pathology)

**Honneurs-baccalaureus in die Landboubestuur
Bachelor of Agricultural Management Honours**

Akoth, Brenda (Agricultural Economics)
Kooper, Paulus (Agricultural Economics)
Ngwenya, Ntokozo Nomalanga (Agricultural Economics)

**Nagraadse Diploma in Akwakultuur
Postgraduate Diploma in Aquaculture**

Gillespie, Jeanine
Juries, Timothy Craig
Van Wyk, Natalie Carin

**Nagraadse Diploma in Akwakultuur Cum Laude
Postgraduate Diploma in Aquaculture Cum Laude**

Parker, Christopher Brendon
Nagraadse Diploma in Bosbou- en Houtwetenskappe
Postgraduate Diploma in Forestry and Wood Science
Goldsmith, Angel Aphelele
Ntshingila, Fridar Bathobile
Pickup, Christopher Dale

**Nagraadse Diploma in Agronomie
Postgraduate Diploma in Agronomy**

Eksteen, Christo
Schoombee, Andries Lodewicus
Zidubule, Siphiwo

Baccalaureus in die Natuurwetenskappe in Landbou Bachelor of Science in Agriculture

Adendorff, Ilka Alda (Genetics and Plant Pathology)
Africa, Lucrecia Courtney (Viticulture and Oenology)
Agenbag, Gert Andries (Soil Science and Viticulture)
Badenhorst, Ruben (Animal Science with Agronomy)
Bartlet, Andrew Walker (Animal Science with Agronomy)
Boltman, Darren (Agricultural Economics with Animal Science)
Botma, Johannes David (Soil Science and Horticulture)
Bouwer, Willem Jeremias (Agricultural Economic Analysis and Management)
Brink, Hugo Berrange (Oenology)
Broeksma, Cornelis Reitz (Soil Science and Horticulture)
Burger, Barend (Animal Science)
Burger, Francois Pieter (Viticulture and Oenology)
Coetzee, Jacobus Altus (Viticulture and Oenology)
Coetzer, Casper (Agronomy and Plant Pathology)
Craven, Dian (Soil Science and Horticulture)
Da Silver, Melissa Phillippa (Animal Science with Aquaculture)
Daniels, Tasneem (Agricultural Economic Analysis and Management)
David, Tayla Hazel (Animal Science)
Davies, Sarah Jane (Animal Science)
Davis, Brendon David (Animal Science with Aquaculture)
Davis, Victoria Erica-Jane (Viticulture and Oenology)
De Bruin, Marthinique (Viticulture and Oenology)
De Wet, Sumari (Genetics and Plant Pathology)
Dolophini, Gcobani (Animal Science)
Du Plessis, Schalk Willem (Soil Science and Horticulture)
Du Preez, Brannigan Jovern (Oenology)
Du Toit, Dawid Jacob Johannes (Soil Science and Horticulture)
Du Toit, Tharine (Horticulture and Agricultural Economics)
Ellmann, Erich Friedrich Ernst (Soil Science and Horticulture)
Essop, Muhammad Wafiq (Soil Science and Agronomy)
Fowler, Michelle Ashley (Animal Science)
Goosen, Samantha (Animal Science)
Greeff, Arissa (Animal Science with Aquaculture)
Groenewald, Mathys Johannes (Soil Science and Chemistry)
Guy, Dakota (Animal Science)
Haefele, Kyle Lindsey (Animal Science)
Hanel, Emma Claire (Animal Science)
Hawkins, Amy Terym (Animal Science)
Heunis, Ronél (Viticulture and Oenology)
Higgins, Jenna Yvonne (Viticulture and Oenology)
Jansen van Resburg, Ivan (Soil Science and Agronomy)
Kilian, Jacomin Petronel (Oenology)
Kotzé, Theunis Nicolaas (Agronomy and Agricultural Economics)
Kroep, Cara (Viticulture and Oenology)
Landos, Eva (Animal Science with Aquaculture)
Laubscher, Johan (Soil Science and Agronomy)
Liebenberg, Adriaan (Soil Science and Agronomy)
Liebenberg, Kaylan Marcel (Viticulture and Oenology)
Lötter, Devan de Villiers (Soil Science and Agronomy)
Lötter, Mari (Animal Science)
Maesela, Lehlogonolo Mahlatji (Agronomy and Plant Pathology)
Marais, Tielman Johannes (Horticulture and Agricultural Economics)
Maree, Darren Nicholas (Soil Science and Chemistry)
Mdakane, Msizi Jacob (Agronomy and Entomology)
Meyer, Elizabeth (Viticulture and Oenology)
Mohaule, Goitse Charles (Viticulture and Oenology)
Moore, Lawrence William (Viticulture and Oenology)
Mouton, Abraham Coenrad (Horticulture and Plant Pathology)
Mouton, Lize May (Agricultural Economic Analysis and Management)
Nel, Willem Adriaan (Animal Science with Aquaculture)
Ngwenya, Makhosazana (Agronomy and Entomology)
Nicol, John James (Viticulture and Oenology)
Nxitywa, Abongile (Agronomy and Plant Pathology)
Orselli, Luca Angelo (Viticulture and Oenology)
Osman, Zubayr (Agricultural Economic Analysis and Management)
Overmeyer, Jamie-Leigh (Viticulture and Oenology)
Philander, Mogammad Sabeegh (Agronomy and Plant Pathology)
Pienaar, Francois (Soil Science and Horticulture)
Prins, Thomas Johannes (Agricultural Economic Analysis and Management)
Pyman, Dylan Harvey (Agricultural Economic Analysis and Management)
Rabie, Annelize (Oenology)
Ross, Shaneel Emmaline (Animal Science)
Shaikh, Ayesha (Genetics and Plant Pathology)
Shungking, Kelsey Kim (Viticulture and Oenology)
Skippers, Zarinah (Animal Science)
Slootmans, Thomas Kees (Animal Science with Aquaculture)
Smit, Brendan Alwyn (Agricultural Economic Analysis and Management)
Smit, Gerrit Erasmus (Horticulture and Agricultural Economics)
Smith, Cassandra Leah (Agricultural Economic Analysis and Management with Food Science)
Stander, Jannie Johan (Soil Science and Horticulture)
Stapelberg, Wian (Animal Science with Aquaculture)
Stofberg, Marlie (Horticulture and Plant Pathology)
Tommasi, Alexia (Animal Science)
Topkin, Michael James (Viticulture and Oenology)
Turner, Lauren Leigh (Animal Science)
Van den Heever, Charen (Viticulture and Oenology)
Van der Walt, Alex Nicola (Animal Science)
Van der Westhuizen, Isak Andries Nicolas (Animal Science)
Van der Westhuyzen, Johannes Petrus (Animal Science)
Van Greunen, Benjamin Biekersteth (Agricultural Economics with Animal Science)
Van Niekerk, Claire Alice (Animal Science)
Van Reenen, Charl Anthony (Viticulture and Oenology)
Van Rensburg, Waldo (Animal Science)
Van Wyk, Chad Kurt (Horticulture and Plant Pathology)
Van Wyk, Daniël John (Animal Science with Agronomy)
Van Zyl, Carel Petrus (Horticulture and Agricultural Economics)
Van Zyl, Nicolas Franciskus (Animal Science)
Venter, Dawid Petrus (Viticulture and Oenology)
Venter, Lodiwikus Jacobus (Soil Science and Horticulture)
Vigne, Michael Robert (Animal Science)

Visagie, Willem Adriaan (Agricultural Economic Analysis and Management)
Visser, Theunis Gerhardus Nicolaas (Animal Science)
Volschenk, Michael Eugene (Agricultural Economic Analysis and Management)
Willemse, Suzahn (Viticulture and Oenology)
Worthington-Fitnum, Sebastian Dylan (Viticulture and Oenology)

Baccalaureus in die Natuurwetenskappe in Landbou Cum Laude

Bachelor of Science in Agriculture Cum Laude

Boshoff, Michaela Ann (Animal Science)
Dos Santos, Isabel Anne (Viticulture and Oenology)
Pollard, Naulette (Animal Science)
Stamp, Damon Duncan (Agricultural Economic Analysis and Management)
Van der Merwe, Johan Herbst (Soil Science and Horticulture)

Baccalaureus in die Natuurwetenskappe in Bosbou en Houtwetenskappe

Bachelor of Science in Forestry and Wood Sciences

Shongwe, Mosima Onicca (Forestry and Natural Resource Sciences)
Steenkamp, Thomas Ignatius (Wood and Wood Product Sciences)
Theledi, Modiseng Gladwill (Forestry and Natural Resource Sciences)

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

Basel, Ashleigh Megan
Collop, Amy
Combrink, Michelle
Du Toit, Elbe
Esau, Bruce Anthony
Hoffman, Diaan Philip
Horn, Nicole
Lilived, Mikaela Jade
Marx, Jan-Taljaard
Müller, Bethel Antonie
Nell, Tenita
Norton, Eric Douglas
Opperman, Kerry Elizabeth
Pons, Joshua Jasper
Rousseau, Jacques Leon
Smale, Talia Lauren
Stead, Bianca Avril
Steed, Adam John
Stevens, Llyle
Tshoke, Tshogofatso
Turnbull, Jordan James
Van Deventer, Henno Daniël
Van Rooyen, Elmar
Van Zitters, Monique
Visagie, Liz Mari

Baccalaureus in die Natuurwetenskappe in Bewaringsekologie
Cum Laude

Bachelor of Science in Conservation Ecology Cum Laude

Du Plessis, Monique
Jooste, Megan Louise
Linnenbank, Frederique Hannah

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

Adams, Monique Grace (Food Science with Biochemistry)
Barkema, Gina Karin (Food Science with Biochemistry)
Barnes, Charys Marian (Food Science with Biochemistry)
Beukes, Martine (Food Science with Biochemistry)
Bleeker, Anke (Food Science with Biochemistry)
Blom, Leila (Food Science with Biochemistry)
Blom, Stephanie (Food Science with Biochemistry)
Burns, Zenon Allan (Food Science with Biochemistry)
Burse, Caroline Rose (Food Science with Biochemistry)
Carstens, Mariska (Food Science with Biochemistry)
Clarke, Chanté (Food Science with Biochemistry)
Clatworthy, Micaela (Food Science with Chemistry)
Cloete, Liza (Food Science with Chemistry)
Cronje, Delenca (Food Science with Biochemistry)
Cumow, Layken Roxanne (Food Science with Chemistry)
De Waal, Lieschke
Dickerson, Emma-Kate
Du Plessis, Reinhardt (Food Science with Chemistry)
Esterhuysen, Michael Keaton (Food Science with Biochemistry)
Freeman, Ziyaad (Food Science with Biochemistry)
Kang, Sarah (Food Science with Chemistry)
Kriel, Heleen (Food Science with Biochemistry)
Lamprecht, Nicole Tessa
Le Roux, Carla (Food Science with Biochemistry)
Lilived, Keanu Ryan (Food Science with Biochemistry)
Loock, Carli
Louw, Anmar (Food Science with Biochemistry)
Maarman, Carl-Joe (Food Science with Biochemistry)
May, Matthew John (Food Science with Biochemistry)
Meiring, Kayla (Food Science with Chemistry)
Melck, Isabella Margot (Food Science with Biochemistry)
Meyer, Ashlyn (Food Science with Biochemistry)
Mukwevho, Mpho (Food Science with Biochemistry)
Nell, Nadia Alwelen (Food Science with Biochemistry)
Nkabinde, Thobile (Food Science with Biochemistry)
Nothnagel, Julindi (Food Science with Biochemistry)
Olivier, Nicolene Louise
Orth, Sebastian Helmut (Food Science with Chemistry)
Patel, Ahmed Aiyoob (Food Science with Biochemistry)
Phelps, Stephanie Leigh (Food Science with Chemistry)
Putter, Jessica (Food Science with Biochemistry)
Rabie, Jenny (Food Science with Chemistry)
Strydom, Rianie (Food Science with Biochemistry)
Van der Linde, Kalinka Clara (Food Science with Biochemistry)
Venter, Jo-Mar (Food Science with Chemistry)
Ziwane, Asanda (Food Science with Biochemistry)

**Baccalaureus in die Natuurwetenskappe in Voedselwetenskap
Cum Laude**

Bachelor of Science in Food Science Cum Laude

Burgess, Caitlin Michelle
Davel, Anissa Catalina (Food Science with Chemistry)
Jenneker, Nicole (Food Science with Chemistry)
Moller, Lara Louise (Food Science with Chemistry)
Petrus, Alicia (Food Science with Chemistry)
Pietersen, Alison Emma (Food Science with Chemistry)
Van der Merwe, Emma (Food Science with Chemistry)
Van Heerden, Nicolette (Food Science with Chemistry)

**Baccalaureus in Landboubestuur
Bachelor of Agricultural Management**

Loubser, Pieter Eduard
Mokoena, Pleasure Boitumelo
Scholtz, Marthinus Christoffel

**Baccalaureus in Landbou
Bachelor of Agriculture**

Augustine, Denver Wilfred
Barnes, Candice Dominique
Baxter, Kaylin Anesha
Bentley, Vaughan
Bezuidenhout, Jeffrey Morgan
Blom, Louis Johannes Uys
Botha, Lané
Briers, Francois Jean
Bruwer, Inge
Burger, Albertus Thomas
Cloete, Roger Nolan
Cronje, Jacques Daniel
Davids, Estheban
Du Preez, Jan Jocka
Duminy, Schalk Willem
Dyariwe, Nkosizile
Fredericks, Daine Keaton
Frolicks, Courtneigh Lynwill
Gibson, Kyle
Grobbelaar, Lynel
Hillock, Timothy Andrew
James, Kate Ann
Joubert, Athur Pierre
Kemp, Johann
Klass, Benjamin Alexander
Kotze, Christiaan Petrus Johannes
Malan, Avril Stefan
Marais, Jean
Mashabela, Mashile Kabelo
Mason, Kelly Victoria
Minnaar, Chad
Momsen, Johannes Albertus
Mouton, Richard James
Nel, Andreas Schalk

Nortjé, Gert Cloete
Odendal, Frederik De Villiers
Pienaar, Leonard Frederick
Rabie, Johannes Christiaan
Schwellnus, Carla
Stemmet, Daniël Jacobus
Sutherland, Riaan Coenraad
Thyssen, Kirsten Jason
Van Greunen, Ilonka Michelle
Van Niekerk, Renzo
Van Zyl, Willem Jacobus
Vrey, Nicolaas Jacobus
Waldmann, Hanna Simona

**Baccalaureus in Landbou Cum Laude
Bachelor of Agriculture Cum Laude**

Van Wyk, Adriaan Joubert

**Magister in die Regsgeleerdheid
Master of Laws**

Best, Nicole
Blecher, Marina Franziska
Bohlen, Marc
Brand, Christiaan
Collenburg, Robin Lucas
Du Plessis, Hanru
Golinski, Danielle
Gorys, Caroline Julia Annemarie
Haas, Simon
Hemeyer, Karl Benedict
Hoffmann, Annabelle Karla
Hohlfeld, Jonathan
Holthausen, Philipp Florian
Hudetz, Stephan
Johnson, David
Jongen, Nikos Leonard
Klager, Matthias
Kleine, Ricarda Antonie
Kulbach, Merle
Lorenzen, Mathis
Meerkamp, Marc
Meißner, Vanessa Isabell
Mieling, Tom Hotch
Mouton, Simone
Mujaji, Thato Jasmine
Oschmann, Daniel
Otto, Sarah-Maria
Perkhoff, Liv-Loreen
Pongratz, Andreas Paul
Potgieter, Duncan Christopher
Pruss, Anna Darinka
Reuther, Johannes
Rizzi, Laura
Sas, Louis
Schiele, Johannes Wolfgang
Schlosser, Johanna
Schonberger, Mirjam Emanuela
Schonborn, Michael
Schultheis, Anne
Stollenwerk, Maximilian
Van der Walt, Gené
Van Zyl, Daniël
Van Zyl, Doreen
Viljoen, Marilie
Vogl, Florian
Wegener, Antonia
Wehner, Fabien Benjamin
Westphal, Kristopher
Wolf, Anton Philipp

**Magister in die Regsgeleerdheid Cum Laude
Master of Laws Cum Laude**

Gouws, Catherine Sarah
Hammerschmid, Benedikt Josef
Hars, Torben
Jansen, Gretchen Sulene
Luoma, Mira Maria
Piper, Marijke Sunette
Sawyer, Matthew David
Schiele, Freya Antonia
Scholl, Elsa
Schubach, Fabian Peter
Van Eetveldt, Henri-Willem
Visser, Wiaan

**Baccalaureus in die Regsgeleerdheid
Bachelor of Laws**

Adams, Gretchen
Adonis, Ashley Bruce
Augustyn, Andene
Borstlap, Johanei
Brown, Robyn
Bruce-Brand, Jason Paul Anthony
Brundyn, Monét
Campher, Megan
Chapman, Stephen Mark
Charuza, Caroline
Clarke, Caitlin
Clarke, Sean Lyle
Cloete, Jordyn
Coetzee, Marli
Cronje, Klara
Crous, Selmie
Daniels, Mischka
Davidse, Matthew Tanswell
De Kock, Aaron Joop
De Kock, Jessica Anne
Du Plessis, Chanté Hemoine
Du Toit, Christian Jacques
Edwards, Elaine
Erasmus, Claire Louise
Erasmus, Merwe Gerhard
Fouchee, Gerhard Johannes
Fourie, Hanneke
Giliomee, Lana
Goetsch, John-Martin
Gonlag, Shene
Grieve, Michaela Robyn
Harding, Harriet Louise
Heyns, Andrea
Immelman, Christopher
Jakoet, Imaad

Janse van Rensburg, Demi
Janse van Vuren, Frederik Gerhardus
Jansen van Vuuren, Gerhard
Joubert, Susanna Maria
Kanzler, Savanna
Karsten, Riëtte
Kenny, Linda Louise
Krause, Marike
Louw, Jacobus Adriaan
Mabelane, Juliet Dimakatso
Marais, Petra
Maree, Elzette Claire
Mc Loud, Lisa
Michel, Gabriela Tayla
Moerat, Azraa
Naudé, Jean-Jacques
Nel, Jacobus Andreas
Ngcobo, Fanele Nosipho
Nzanza, Lynette Rudo Rosemary
Paxton, Lauren Catherine
Reed, Robin
Robbertse, Duard Daniel
Roskell, Georgina Catarina
Roux, Chelsea Carly
Roux, Josua Francois
Roxburgh, Craig
Savanhu, Lorraine Nyasha
Smallman, Melissa Claire
Smit, Nicola
Sogula, Sandiso
Strydom, Henry le Roux
Swanepoel, Faure-Johan
Thompson, Sabrina
Tough, Alexander le Sueur
Trezires, Chanté Kim
Van der Hoven, Andreas Bernhardus Theron
Van der Walt, Lourens Stephanus
Van Dyk, Kruger Willem
Van Emmenes, Pieter Wesley
Van Lill, Conraad
Van Niekerk, Dirk Jacobus
Van Staden, Marthinus Petrus
Van Wyk, Mia
Van Zyl, Kirsten
Walsh, Elissa
Wynne, Sean Robert

**Baccalaureus in die Regsgeleerdheid *Cum Laude*
Bachelor of Laws *Cum Laude***

Dzwig, Katherine
Moodie, Corné
Van Vuuren, Courtney Tayla
Vos, Wesley John

**Nagraadse Diploma in Intellektuele Goederereg
Postgraduate Diploma in Intellectual Property Law**

Bunge, Yonela
Koloj, Sebekedi Motlhabane
Mabotja, Pontsho Audrey
Maretlane, Thandiwe Adelaide
Wright, Nordely
Wyngaard, Olga Zita

**Nagraadse Diploma in Intellektuele Goederereg *Cum Laude*
Postgraduate Diploma in Intellectual Property Law *Cum Laude***

Winterbach, Rachel Sharon

KANSELIERSTOEKENNING | CHANCELLOR'S AWARD

Fakulteit AgriWetenskappe | Faculty of AgriSciences

NICK VINK

Prof Nick Vink het in 1996 by die Universiteit Stellenbosch aangesluit as professor aan die Departement Landbou-ekonomie. Prof Vink het 'n sterk navorsingsprofiel op die gebied van landboubeleid opgebou, met verreikende nasionale en internasionale impak. Onder die oorhoofste tema van transformasie in Suid-Afrikaanse landbou strek sy navorsing oor verskeie kommoditeite, van somergrane tot wyn, en dwarssnijdende kwessies, soos landboufinansiering, institusionele verandering, klimaatsverandering en grondhervorming. As uitgelese dosent het hy studieleiding verskaf aan meer as 50 nagraadse studente. Hy dien tans as nie-uitvoerende lid op die direksie van die Suid Afrikaanse Reserwebank.

Prof Nick Vink joined Stellenbosch University in 1996 as professor in the Department of Agricultural Economics. Prof Vink has built a strong research profile on agricultural policy issues with a wide-ranging local and international impact. Under the over-arching theme of transformation in South African agriculture his research covers a wide range of commodities, from summer grains to wine, and cross-cutting issues such as agricultural finance, institutional change, climate change and land reform. As a distinguished lecturer he has supervised more than 50 postgraduate students. He currently serves as a non-executive director of the South African Reserve Bank.



2

13 Desember | 13 December

17:30

Fakulteit

Lettere en Sociale Wetenschappen

(Insluitend BA (Regsgelerdheid))

Faculty

Arts and Social Sciences

(Including BA (Law))

PROGRAM

- | | |
|------------------------|--|
| <i>Staan asseblief</i> | 1. Akademiese prosesie kom die saal binne. |
| <i>Staan asseblief</i> | 2. Sing van die Nasionale Lied (kyk aan die binnekant van die agterblad). |
| <i>Sit asseblief</i> | 3. Konstituering deur die Viserektor. |
| | 4. Verwelkoming deur die Viserektor en prof Mawande Dlali. |
| | 5. Voorstelling van die eredoktorandi en toekenning van die eregrade deur die Viserektor. |
| | 6. Voorstelling van kandidate wat kwalifikasies ontvang deur die dekaan van die fakulteit en die toekenning van kwalifikasies deur die Viserektor. |
| | 7. Voorstelling van die kandidate vir Kanselierstoekennings en oorhandiging van die toekennings deur die Viserektor. |
| | 8. Sluiting deur die Viserektor. |
| <i>Staan asseblief</i> | 9. Akademiese prosesie verlaat die verhoog. |

PROGRAMME

- | | |
|---------------------|--|
| <i>Stand please</i> | 1. Entrance of academic procession into the hall. |
| <i>Stand please</i> | 2. Singing of the National Anthem (see inside back cover). |
| <i>Sit please</i> | 3. Congregation formally constituted by the Vice-Rector. |
| | 4. Welcome by the Vice-Rector and Prof Mawande Dlali. |
| | 5. Presentation of the candidates for the honorary doctorates and conferment of the honorary degrees by the Vice-Rector. |
| | 6. Presentation of candidates receiving qualifications by the dean of the faculty and conferment of qualifications by the Vice-Rector. |
| | 7. Introduction of the candidates for Chancellor's Awards and presentation of awards by the Vice-Rector. |
| | 8. Closing by the Vice-Rector. |
| <i>Stand please</i> | 9. The academic procession leaves the stage. |

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

GLYNIS MARIE BREAKWELL

vir die ontwikkeling van identiteitsprosesteorie, 'n impakryke bydrae tot die sosiale sielkunde wêreldwyd, wat sy weg gevind het tot by die suidelikste punt van Afrika, waar dit ons steeds die veranderinge en bedreigings van die realiteit ná apartheid help hanteer en aan voorheen gemarginaliseerdes 'n stem gee.

Professor dame Glynis Marie Breakwell se voortreflike bydrae tot die sosiale sielkunde is van wêreldbelang. Plaaslik help dit ons verstaan hoe Suid-Afrikaners die maatskaplike veranderinge ná apartheid beleef.

Dié visekanselier van die Universiteit van Bath sedert 2001 en gesondheidsielkundige van die hoogste rang is bekend vir haar akademieskap oor die sielkunde van risiko, maatskaplike aksie en verandering, sowel as identiteit. Haar invloedryke identiteitsprosesteorie verklaar individue se oorewingstrategieë te midde van bedreigings vir hulle identiteit. Deur universeel relevante voorbeelde van bedreiging soos werkloosheid en etniese marginaliteit te gebruik – kwessies wat Suid-Afrikaners alreeds goed ken – help begryp Breakwell ons die impak van tegnologiese vooruitgang, politieke onrus en ekonomiese ontwikkeling op die vorming van identiteit. In ons konteks ná apartheid bevorder haar werk ook plaaslike pogings om slagoffers van bedreiging oor hulle ervarings en gevoelens te laat praat en hulle gedwonge stilte in vorige dominante diskoerse te verbreek.

As uitsonderlike en gewaardeerde kenner, is Breakwell 'n lid van die Verenigde Koninkryk (VK) se Raad op Ekonomiese en Maatskaplike Navorsing sowel as die Wetenskap-en-Tegnologie-erekomitee, een van 'n uitgesoekte groep eregenote van die Britse Sielkundige Vereniging, en 'n senior onafhanklike direkteur van die Nasionale Gesondheidsdiens se verbeteringsraad. Synde 'n kampvegter vir universiteite se rol in innovasie en ekonomiese herlewing, is sy tans direkteur van die USS (een van die grootste pensioenskemas vir tersiêre instellings in die VK) sowel as Universiteit VK, en 'n direkteur van die Leierskapstigting vir Hoër Onderwys.

Onlangse eerbewyse vir dié voorste vakkundige se werk is haar aanstelling as damekommandeur van die Britse Ryk in 2012. Breakwell is ook in 2014 by die Wetenskapraad se lys van 100 toonaangewende praktiserende wetenskaplikes in die VK ingesluit.

Professor Dame Glynis Breakwell is die toonbeeld van sosiale impak deur akademieskap, wat die Universiteit Stellenbosch graag vereer.

for having crafted identity process theory, a high-impact contribution to global social psychology, which has trickled down to the southernmost tip of Africa, where it continues to help us navigate the changes and threats of our post-apartheid reality and gives a voice to the previously marginalised.

Professor Dame Glynis Marie Breakwell's outstanding contribution to social psychology is globally significant. Locally, it has aided our understanding of how South Africans relate to post-apartheid social changes.

This University of Bath vice-chancellor since 2001 and chartered health psychologist is renowned for her scholarship in the psychology of risk, social action and change, as well as identity. Her seminal identity process theory explains individuals' coping strategies when their identities are threatened. By using globally relevant examples of threat such as unemployment and ethnic marginality – issues South Africans are all too familiar with – Breakwell has helped us comprehend the impact of technological advances, political upheaval and economic development on identity formation. In our post-apartheid context, her work has also promoted local efforts to enable victims of threat to speak out about their experiences and feelings, breaking their forced silence in previous dominant discourses.

A profound and valued expert, Breakwell is a member of both the United Kingdom (UK) Economic and Social Research Council, and the Science and Technology Honours Committee, one of a select group of British Psychological Society honorary fellows, and a senior independent director of the National Health Service Improvement Board. Also a champion for universities' role in innovation and economic regeneration, she is director of both the Universities Superannuation Scheme (USS) and Universities UK (UUK), as well as a board member of the Leadership Foundation for Higher Education.

Recent accolades recognising the esteemed scholar's work include her appointment in 2012 as Dame Commander of the British Empire. Moreover, in 2014, Breakwell appeared in the Science Council's prestigious list of "100 leading UK practising scientists".

Professor Dame Glynis Breakwell embodies social impact through scholarship, which makes her worthy of Stellenbosch University's highest honour.

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

HOMI K. BHABHA

vir sy uitsonderlike vermoë as die wêreld se voorste postkoloniale literêre teoretikus om die geesteswetenskappe in nuwe rigtings te stuur, om internasionale organisasies te beïnvloed deur die rol van die geesteswetenskappe in vrede, ekonomiese aktiwiteit en kultuur te bevorder, en om die bestudering van die geesteswetenskappe in hedendaagse tye relevant te maak.

Bhabha is in 1949 in Moembai gebore. Met 'n MPhil (1974), MA (1977) en DPhil (1990) in Engelse Letterkunde van die Universiteit van Oxford aanvaar hy sy eerste professorskap aan die Universiteit van Chicago as Chester D. Tripp-professor in die geesteswetenskappe. Sedert 2001 is Bhabha verbonde aan Harvard, waar hy as die Anne F. Rothenberg-professor in Engelse en Amerikaanse Letterkunde en Tale sowel as direkteur van die Geesteswetenskappesentrum dien.

Sy bydrae tot die geesteswetenskappe sluit invloedryke publikasies en die ontwikkeling van baanbrekerkonsepte in soos hibriditeit, mimikrie, interstisieel en derde ruimte. Konseptuele deurbrake sluit in sy gedagte van kulturele transisie, wat erken hoe die verlede die hede aanhou vorm. Veral sy bydraes om konflik tussen kulture beter te verstaan is noodsaaklik in 'n wêreld, ook 'n Suid-Afrika, wat deur kulturele onmin gekenmerk word. Deur te toon hoe die geskiedenis van kolonialisme konstant na die hede oorspoel, doen hy voorspraak vir 'n getransformeerde begrip van kruiskulturele verhoudings, en stel hy 'n nuwe konseptualisering van humanisme voor om 'n brug tussen godsdienste en kulture te bou.

Bhabha dien onder meer as trustee van die UNESCO Wêreldverslag oor Kulturele Diversiteit, en is 'n voormalige voorsitter van die Davos Wêreld- Ekonomiese Forum se Globale Agendaraad oor Menseregte en Menswaardigheid. Sy vele eerbewyse sluit in die Padma Bhushan-prys (2010), die derde hoogste burgerlike toekenning in Indië, en die Alexander von Humboldt-navorsingsprys (2015).

Vir hierdie baanbrekerswerk om 'n nuwe soort interdisiplinêre gesprek aan die gang te sit insake 'n getransformeerde begrip van kruiskulturele verhoudings, vereer die Universiteit Stellenbosch professor Homi Bhabha graag.

for his exceptional ability as the world's premier postcolonial literary theorist to push the humanities in new directions, for being influential in international organisations by advancing the role of the humanities in peace, economic activity and culture, and for making the study of the humanities relevant in current times.

Born in Mumbai, India, Bhabha holds an MPhil (1974), MA (1977) and DPhil (1990) in English Literature from Oxford University and took up his first professorship at the University of Chicago as Chester D. Tripp Professor in the Humanities. He has been at Harvard since 2001, where he serves as Anne F. Rothenberg Professor of English and American Literature and Languages, and director of the Humanities Centre.

His contribution to the humanities includes seminal publications and pioneering concepts such as hybridity, mimicry, interstitial and third space. Conceptual breakthroughs include his notion of cultural transition – acknowledging how the past continues to shape the present. Of particular importance are his contributions towards a better understanding of intercultural conflict; this is particularly vital in a world, including a South Africa, characterised by cultural strife. Showing how the histories of colonialism constantly intrude on the present, he calls for a transformed understanding of cross-cultural relations, and proposes a new conceptualisation of humanism to build a bridge between religions and cultures.

Bhabha serves as trustee of the UNESCO World Report on Cultural Diversity, and is a former chair of the Davos World Economic Forum Global Agenda Council on Human Rights and Dignity. His many accolades include the Padma Bhushan Prize (2010), the third-highest civilian award in India, and the prestigious Alexander von Humboldt Research Prize (2015).

For this pioneering work in establishing new ways of interdisciplinary engagement towards a transformed understanding of cross-cultural relations, Stellenbosch University wishes to honour Professor Homi Bhabha.

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

Doktor in die Wysbegeerte **Doctor of Philosophy**

ANDRADE, Julio Anthony (Philosophy)

The possibility of sacrifice: A Levinasian re-conceptualisation of supererogation

The subject of this study was supererogation, i.e. morally praiseworthy actions that fall beyond the scope of duty. Part 1 comprises a critical analysis of the extant scholarship on supererogation, wherein it was concluded that supererogation can be conceptualised without recourse to the grounding concept of duty. Part 2 offers a reconceptualisation of the concept of supererogation based on the ethics of Emmanuel Levinas. More specifically, it is argued that supererogation can be profitably thought of as a constant and never-accomplished oscillation between ethics and politics, which allows for the realisation of supererogatory attitudes, expressed as the possibility of sacrifice.

Supervisor: Dr ML Woermann

BASWETI, Nobert Ombati (African Languages)

Argumentation in doctor–patient consultations in EkeGusii: A pragma-dialectical approach

This study investigated the argumentative discourse of (Eke)Gusii doctor–patient consultations in Kenya using the framework of the extended pragma-dialectical theory of argumentation. The study particularly investigated how Gusii doctors and Gusii patients strategically manoeuvre in resolving differences of opinion through the analysis of simulated medical consultations in (Eke)Gusii employing the pragma-dialectical method, which entailed the interpretation, reconstruction and evaluation of the dialogues. This multiperspective study established that the interplay of the macro contextual exigencies of contemporary Western medicine and the traditional Gusii sociocultural belief system concerning illness give rise to a hybrid of genres of consultation and persuasion.

Supervisor: Prof. MW Visser

DU TOIT, Anina (Psychology)

Seizures: The perceptions and frustrations of healthcare providers and traditional health practitioners in Namibia

This mixed-method research study aimed to explore the perceptions and frustrations of biomedical and traditional health practitioners in managing medically explained and unexplained seizures in Namibia. The objectives were to describe and interpret their conceptualisation of seizures, the diagnostic and treatment practices used and the challenges encountered in managing seizure patients. This multi-layered investigation suggests that advocacy, training, raising of awareness and promotion of public health policies should be prioritised. This study can contribute to the goals of the International League Against Epilepsy by providing information on the diagnostic and treatment modalities used in Namibia for the management of seizures.

Supervisor: Dr C Pretorius

GOKOOL, Roshni (African Languages)

Cognitive and linguistic complexity in a task-based computer-assisted language-learning syllabus for health sciences students

This study investigated an isiZulu task-based syllabus design for doctor–patient communication for health sciences students studying at the University of KwaZulu-Natal, South Africa. The study adopted a multifaceted approach to the teaching of isiZulu L2, which invokes key principles of task-based language learning and teaching, language for specific purpose and computer-assisted language learning related to second language acquisition. The communication target tasks were used as the unit of analysis for investigating syllabus design. Communication tasks were graded and sequenced in terms of their cognitive complexity and linguistic complexity, used to design pedagogic tasks for enhancing the isiZulu language development of students.

Supervisor: Prof MW Visser

HUNT, Xanthe Dawn (Psychology)

Through a different lens: Examining commonality and divergence in constructions and depictions of the sexuality of persons with physical disabilities in South Africa

This sophisticated study explored constructions of sexuality of South Africans with physical disabilities from the point of view of non-disabled people and that of disabled people themselves. The findings from a survey of views of non-disabled people were juxtaposed with data from an innovative participatory photovoice study of disabled people, showing the complexities of ascriptions and the problematic politics of social and sexual exclusion. Described by a leading international theorist as “an exceptionally mature piece of work”, this study raises searching questions about how to think about the social construction of both disability and sexuality.

Supervisor: Prof LP Swartz

Co-supervisor: Dr P Rohleder

JANSE VAN RENSBURG, Andries Petrus (Political Science)

Governance and power in mental health integration processes in South Africa

Despite a resurgence in mental health research globally, a distinct deficit exists in understanding the crucial roles of governance and power. This study identified, described and explained how power relations shape the governance of integrated mental healthcare in South Africa. A pragmatic, mixed-methods, theory-driven case study was undertaken in the Mangaung Metropolitan District. Governance fractures were exposed between state/non-state services and biomedical/social care approaches. Several types of power emerged across these points of contention. While Life Esidimeni brought the governance of vulnerable populations into sharp focus, the findings help explain how such abuses are possible in South Africa.

Supervisor: Prof PP Fourie

Co-supervisor: Prof P Bracke

JJINGO, Ceasar (African Languages)

Cognitive analysis in task-based syllabus design for the teaching and learning of Kiswahili as a second language in Ugandan secondary schools

The main focus of the study was to investigate the cognitive and linguistic properties of communication task complexity for the purpose of investigating the characteristics of learning tasks in task-based syllabus design for the teaching and learning of Kiswahili as a second language in secondary schools in the Ugandan multilingual context. The investigation and analysis of communication task complexity were conducted within the framework of task-based theory and the cognition hypothesis relating to task complexity in the design, grading and sequencing of learning tasks for teaching and learning of Kiswahili as L2 in Ugandan secondary schools.

Supervisor: Prof MW Visser

JORDAAN, Marenet (Journalism)

Newswork in transition: An ethnography of Netwerk24

This ground-breaking empirical study explored how journalists at Netwerk24, an Afrikaans news website and national newsroom, experience newswork during a time of disruption and change. This extended newsroom ethnography was informed by a combination of Bourdieu's field theory and Latour's actor-network theory. The findings reveal that digital media technologies, while key to newswork, are not the main drivers of change, as is often argued. While most journalists are willing to adapt to change and accept the uncertainty of a future in journalism, they often hold on to traditional conceptualisations of journalism and crave to know where they fit into the network.

Supervisor: Dr GJ Botma

KPOBI, Lily Naa Ayorkor (Psychology)

Indigenous and faith healing for mental disorders: An exploratory study of healers in Accra, Ghana

There are few resources for mental healthcare in Africa, and this innovative study lays the groundwork for exploring collaborations between biomedical practitioners and indigenous and faith healing systems in Ghana. The study sensitively explores the mental health practices of Ghanaian Christian and Muslim healers, shrine priests and herbalists, and demonstrates the importance of exploring the specificity of different healing systems and approaches. The role of power and positioning in influencing different healers' investments in collaboration with the biomedical system was explicated. The study has important implications for integrated mental healthcare in Ghana and, more broadly, Africa.

Supervisor: Prof LP Swartz

LUKANDA, Nathanael Ivan (Journalism)

From lab to fork? Press coverage and public (mis)perception of crop biotechnology in Uganda

This study analysed the structure of the controversy about genetically modified organisms (GMOs) in Uganda by focusing on how two local newspapers covered the subject and on the public perception regarding a perceived contested science (biotechnology). The aim was to establish the different ways in which media coverage of biotechnology influences public perception of GMOs in Uganda. It drew on the science-in-society model, the public sphere model of Habermas and the media logic theoretical framework as a lens for understanding Uganda's case. The study revealed that the debate on GMOs is also a clash of traditions.

Supervisor: Prof GN Claassen

MATTHAEI, Elke Astrid (Geography and Environmental Studies)

A critical reflection on the formalisation of communal land rights in Namibia: Why local contexts matter for bridging the dichotomies of tenure rights

This study was carried out in Namibia to gain a better understanding of how farmers living on communal land use their land, which in turn has an impact on how they understand tenure security and what their needs are regarding forms of ownership. Researchers and policy makers will gain a better insight into the pluriactivities of local production systems and the multifunctionalities of land uses. The research adds a dimension to the concept of the continuum of land rights by linking this to factors of production and farm management styles, highlighting how important different land uses are to determine tenure needs.

Supervisor: Prof SE Donaldson

MEYER, Corlia (Science and Technology Studies)

Perceptions of the environment and environmental issues in Stellenbosch, South Africa: A mixed-methods approach

This was a first study investigating socio-demographic and environmental communication variables influencing the public's perceptions of environmental problems, carried out in Stellenbosch, South Africa. The study sought to identify the main socio-demographic factors, such as gender, ethnic group, age, religious affiliation, education and income, as well as the sources of environmental information the public uses. Of all the variables, environmental knowledge, gender and the population group of an individual were the variables with the strongest influence on the sample's perceptions about the environment. The respondents perceived water scarcity, climate change and pollution as the most severe environmental problems.

Supervisor: Prof PHM Weingart

MUSA, Sallek Yaks (Sociology)

Military internal security operations in Plateau State, North Central Nigeria: Ameliorating or exacerbating insecurity?

In Africa, it has become the norm to deploy the military to curb violence and armed conflict. Although military force can lead to a ceasefire, where soldiers abuse their power, this creates animosity and retaliation. In Plateau State, Nigeria, the lack of military professionalism, military habitus and weak civil control strain civil military relations, causing civilians to use their own agency to provide for their security. Theories of civil–military relations fail to explain these dynamics. To address this void, a quadrumvirate interaction theory of civil–military relations was developed to explain the conditions under which the military exacerbates insecurity, instead of creating security.

Supervisor: Prof LPT Heinecken

MWIINE, Amon Ashaba (Sociology)

Promoters of gender equality? A study of the social construction of specific male parliamentarians as 'male champions' in Uganda

This study engaged with the phenomenon of male politicians speaking to gender equity issues in parliament in Uganda. What is particularly interesting about this is that these politicians are selected by women gender activists to speak on behalf of them in a parliamentary context in which men are taken more seriously than women. In the popular media, these men are often referred to as 'male champions'. This study questioned the category 'male champion', raising concerns about the limitations of the promotion of gender equality through the mediation of specific men and their idealisation as 'champions'.

Supervisor: Prof RW Pattman

Co-supervisor: Dr MM Sikes

PEROLD, Philippus Rudolf (Geography and Environmental Studies)

Informal capacities: Exploring grounded architectural practice in transitions to sustainable urbanism in Cape Town

This study explored architectural practice in the upgrading of informal settlements in Cape Town, and in particular the informal capacities that are required and developed when architectural professionals engage constructively with residents in co-production and collaborative design processes. It was found that such grounded architectural practice enables residents to articulate their own needs and become involved in the spatial processes that impact on their lives. Furthermore, such practice enables architectural professionals to adopt a new professional identity – one of collaborator, more than expert – that enables them to foster spatial justice from within the context where it is most needed.

Supervisor: Prof SE Donaldson

Co-supervisor: Prof O Devisch

SANNI, John Sodiq (Philosophy)

Exploring Martin Heidegger's conceptions of phenomenology and transcendence: Addressing the problem of religious fundamentalist violence

This study argues that instead of further secularisation, what we need to address the escalation of religiously motivated violence is a phenomenological analysis of the shared human religious impulse and the ways in which it can become perverted into justifications for violent extermination of the enemies of truth. Drawing on Heidegger's phenomenological ontology, the religious impulse is described as emerging from within the shared lived experience, and it is argued that it is also from that common basis that the violent perversions should be addressed. This provides a foundation for inter-faith dialogue and conflict resolution.

Supervisor: Prof HL du Toit

Co-supervisor: Dr DJ Louw

THOMPSON, Miché Chanelle (General Linguistics)

Multilingualism in the workplace: Communicative practices between store owners and assistants in Chinese shops in Cape Town

Since 1994, South Africa has experienced an increased inflow of migrant workers from Africa and further afield. This has brought increased language diversity to various workplaces. This study investigated patterns of communication in a centre with Chinese-owned stores where most store assistants are of foreign citizenship. Both store owners and assistants have non-South African languages as their first language, while English is the lingua franca of the workplace. An ethnographic study indicated very interesting power dynamics that are largely determined by the linguistic repertoires of the various participants, and particularly by their levels of English proficiency rather than by the ownership–worker hierarchy.

Supervisor: Prof C Anthonissen

UWIZEYIMANA, Valentin (General Linguistics)

An investigation into the effect of mobile-assisted language learning on Rwandan university students' proficiency in English as a foreign language

This study investigated the use of mobile technologies for language learning (MTLL) to increase the English proficiency of students at the University of Rwanda. Although English is an official language of Rwanda, most learners only receive exposure to this language in the classroom and most teachers struggle with English themselves. The study investigated the use of MTLL to increase the amount of exposure learners receive to the language. Its results indicate great potential for the use of MTLL in this context, and the study provides valuable suggestions for incorporating such technologies into the English language classroom.

Supervisor: Dr S Conradie

VAN DER MERWE, Willem Carel (Geskiedenis)***Aweregs: Die rustelose lewe van Ben Viljoen, 1868–1917***

Hierdie studie het 'n kritiese vertolkende biografie van die omstrede generaal Ben Viljoen behels. Hy land as arm 18-jarige trekboerseun in die Zuid-Afrikaanse Republiek en klim binne 12 jaar tot lid van die Tweede Volksraad. Gedurende die Anglo-Boereoorlog (1899–1902) onderskei hy hom aanvanklik en word tot veggeneraal bevorder voordat hy onder vreemde omstandighede gevange geneem en na St Helena gestuur word. Ná die oorlog wyk hy na die Verenigde State van Amerika uit en speel 'n aktiewe rol in Nieu-Meksiko. Oorkoepelend is hierdie studie 'n grondige herwaardering van heersende beskouinge oor hoe sommige Boereleiers hulle ná die oorlog laat geld het.

Promotor: Prof AM Grundlingh

VAN RENSBURG, Alta (Vertaling)***Revisie: Een aspek van kwaliteitbestuur in 'n akademiese vertaalkantoor***

In hierdie studie is revisie ondersoek as een aspek van kwaliteitbestuur in akademiese vertaalkantore aan hoëronderrysinstellings. Dit het 'n ondersoek behels na (i) die invloed van revisie op vertaalkwaliteit, (ii) die invloed van die reviseursprofiel op revisiekwaliteit en (iii) die invloed van die revisieprosedure op revisiekwaliteit. Die aanbeveling is dat reviseurs spesifiek in revisie opgelei word, en dat revisie slegs een aspek van 'n vertaalkantoor se kwaliteitbestuurstelsel behoort uit te maak. Dit is ook bevind dat revisie wél 'n positiewe invloed op vertaalkwaliteit het en dus as kwaliteitkontrole in akademiese vertaalkantore gebruik kan word. Die beskrywende kategorieë asook die kwantitatiewe revisieformule lewer 'n selfstandige bydrae, wat in die vertaalpraktik en in 'n opleidingskonteks nuttig toegepas kan word.

Promotor: Prof AE Feinauer

WELMAN, Lesley Peter (Geography and Environmental Studies)***Regional development of the greater Saldanha Bay region***

The roles of Saldanha Steel, Transnet National Ports Authority, Sea Harvest and the Saldanha Bay Municipality in the growth and development of Saldanha town (and region) were investigated. The analyses revealed that the firms struggle to cope with changing economic and geographical contexts. The local authority is over-dependent on state-led projects and a lack of initiative and capital to establish its own place-based projects exists. The future of the local economy is subject to its connection with its port, the biological recovery rate of the hake fishery, the oil-and-gas service centre and the establishment of a port-town development authority.

Supervisor: Prof SLA Ferreira

WHITE, Michelle Jennifer (General Linguistics)***The development of cognitive processes and English language abilities: The case of early English language learners in a multilingual South African setting***

The study investigated the development of English language skills and the processes that underlie these skills in a multicultural classroom in an English-medium school. A small group of children had English as home language, whereas the larger group spoke nine different home languages and had little proficiency in English. Both groups' language and working memory skills were assessed three times over the course of their Grade R year. The two groups showed comparable growth trajectories, but the group with English as home language outperformed the other, indicating that additional intervention is indicated for young children who are English language learners.

Supervisor: Prof F Southwood

Co-supervisor: Prof H Gram Simonsen

YAKUBU, Ibrahim (Geography and Environmental Studies)***Residential mobility practices in low-income communities of Tamale, Ghana***

This study fills an important knowledge gap by employing a mixed-methods approach to investigate the socio-economic and cultural dynamics of residential mobility practices in the low-income communities of Tamale, Ghana. The study found marked differences in the patterns of residential mobility exhibited by different socio-economic sub-groups in the low-income housing system. It also found a high prevalence of forced residential mobility linked to processes of urban upgrading and spiritual beliefs. The results offer insights into the essential research and policy imperatives for context-specific solutions to the low-income housing dilemmas in cities of the global South.

Supervisor: Dr MA Spocter

Co-supervisor: Prof SE Donaldson

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

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

Aberdein, Cindy (Psychology)
Beck, Stephen James (History)
Bingham, Julia Ruth-Kirsten (Clinical Psychology and Community Counselling)
Cowlin, John Richard (History)
Cupido, Adriaan (Translation)
De Vente-Bijker, Tanya Nelly (Journalism)
Diergaardt, Candice Michelle (Psychology)
Freeman, Victoria Marianne (Psychology)
Graham, Jessica Amy (History)
Manca, Mpho Refilwe Keletso Clothilda (General Linguistics)
Marx, Anelda (Afrikaans and Dutch)
Mokwena, Dimakatso David (Journalism)
Raban, Mukhtar (Technology in Language Learning)
Rall, Divan (Clinical Psychology and Community Counselling)
Reid, Stephanie Elana (Political Science)
Saxby, Benjamin Bryan (Social Anthropology)
Stromvig, Hlobisile Geneveave (Second-language Studies)
Van Stryp, Jacqueline Etta (Second-language Studies)
Vollgraaff, Werner (Political Science)

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

Alshabani, Siham (General Linguistics)
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Goldstone, Daniel Graham (Clinical Psychology and Community Counselling)
Harmse, Kristen (Sociology)
Hartwig, Louise (Clinical Psychology and Community Counselling)
Lotter, James Keith (International Studies)
Mutsivairo, Jack (African Languages)
Potgieter, Jean-Marie (General Linguistics)
Punt, Charli-Ann (Clinical Psychology and Community Counselling)
Raad, Rene (Social Anthropology)
Van Wyk, Mizan (German)
Von Wielligh-Steyn, Mercy Lydia (French)
Ward-Smith, Chesney Fenella (Clinical Psychology and Community Counselling)
Williams, Sasha-Leigh (General Linguistics)

Magister in die Wysbegeerte **Master of Philosophy**

Abdool, Zeelha (Applied Ethics)
Chawuke, Tony Buwa (Information and Knowledge Management)
Chikasema, Blessings (Public Mental Health)
Chuma, Casius (Monitoring and Evaluation Methods)
Coetzee, Tanya (Applied Ethics)
Fouche, Tanya (Applied Ethics)
Janda, Milisa Sifiso (Monitoring and Evaluation Methods)
Jay, Lonwabo (Urban and Regional Science)
Kooverjee, Yoshna Ishwarlal (Applied Ethics)
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Moloi, Bekezela Maria (Information and Knowledge Management)
Mugamu, Eunison (Disaster Risk Science and Development)

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Jackson, Sandra Jacki (Social Work)
Kotze, Anje (Social Work)
Nel, Lejeanne (Social Work)

Baccalaureus in die Wysbegeerte **Bachelor of Philosophy**

Kaumbi, Vespa
Kgosidialwa, Mercy Galerongwe
Madima, Nyawalusani Gloria
Malete, Given Moloko
Maribe, Albert Phaleng
Martens, Carmen
Mokoena, Edgar
Monama, Eunice Lesego
Nkosi, Gladwin Phumlane

Baccalaureus in die Wysbegeerte Cum Laude **Bachelor of Philosophy Cum Laude**

Foster, Petronella Hermina
Sampson, Leanne

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

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Adams, Carmen Felicia (Geography and Environmental Studies)
America, Zena Georgina (International Studies)
Aploon, Carlize Vema (History)
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Baleson, Dagny (International Studies)
Baloyi, Nkateko (Psychology)
Bamporiki, Raissa Furaha (International Studies)
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Celliers, Michael (Political Science)
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Cronjé, Daniëlle (Afrikaans and Dutch)
Douglas, Monique (Geography and Environmental Studies)

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 Gasela, Ayanda Avela (English Studies)
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 Kotze, Caro (Geography and Environmental Studies)
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 Law, Matthew Robert (International Studies)
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 Lirula, Thandile (Geography and Environmental Studies)
 Mabe, Modiehi Anastacia (Geography and Environmental Studies)
 MacKinnon, Gilla Frances (History)
 MacLear, Jemma (Political Science)
 Madikizela, Buchule (Philosophy)
 Mahlangu, Thoko Johan (Political Science)
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 Marx, Gabrielle Ann (International Studies)
 McKnight, Richard (Geography and Environmental Studies)
 Meyer, Shannon Stephanie (History)
 Moir, Lauren Claire (Geography and Environmental Studies)
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 Morrison, Christopher James Hamilton (History)
 Morrison, Robyn Laura (Geography and Environmental Studies)
 Mutizwa, Tinashe James Prince (Geography and Environmental Studies)
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 Njomane, Masilakhe Chiwota (International Studies)
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 Perold, Liza (International Studies)
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 Ryklief, Elana Leah (English Studies)
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 Steffens, Liändrie (International Studies)
 Stemmet, Ineke Monique (International Studies)
 Steyn, Jessica Lynne (English Studies)
 Sullivan, Jade Lauren (Geography and Environmental Studies)

Tumbull, Derryn-Rae (Geographical Information Systems)
 Ukabhai, Priyanka (International Studies)
 Van der Merwe, Michaela Lee (Political Science)
 Van Zyl, Ernst Jacobus (Political Science)
 Voigt, Tarryn Monica (International Studies)
 Wille, Jan Hendrik (History)
 Willemse, Amber Joe (Geography and Environmental Studies)
 Williams, Veronique Sasha (General Linguistics)
 Wink, Chané (History)
 Wyngaard, Yahnosh Günther (Geography and Environmental Studies)
 Zastron, Mandi (Translation)

Honneurs-baccalaureus in die Lettere en Wysbegeerte *Cum Laude*

Bachelor of Arts Honours *Cum Laude*

Abba Omar, Rabia (History)
 Ahnie, Kaylin Rose (Translation)
 Aitchison, Stephanie Jayne (General Linguistics)
 Appleby, Roxanne (Psychology)
 Barnard, Daniela (History)
 Bezuidenhout, Craig John (Psychology)
 Brand, Danika (History)
 Crafford, Lara (Translation)
 Crook, Amber Roxanne (English Studies)
 Day, Michelle Nicole (History)
 De Villiers, Engela Helena (General Linguistics)
 De Villiers, Liza (African Languages)
 Dick, Taryn Lee (General Linguistics)
 Du Plessis, Marilé (English Studies)
 Elijah, Lorenzo (Political Science)
 Elphick, Sarah Cathryn (English Studies)
 Erskine, Sasha Courtenay (International Studies)
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 La Kay, Jarryd Wayne (English Studies)
 Lennox, Lyle Edward (History)
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 Moonasar, Mishka (Psychology)
 Nel, Jacques (Psychology)
 Nortje, Crezell (African Languages)
 O'Donovan, Caitlin Christine (General Linguistics)
 Palmer, Amy (General Linguistics)
 Parshotam, Minali Dinesh (General Linguistics)
 Pfeffer, Lisa (German)
 Potgieter, Johann Fölscher (General Linguistics)
 Rademan, Daniel Johannes Rouxan (History)
 Resha, Gugulethu (Philosophy)
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Shewell, Emma Anne (International Studies)
Shirley, Liezel (Psychology)
Strydom, Dirk (English Studies)
Uys, Mia (History)
Van der Merwe, Ragnar (Philosophy)
Venter, Caitlin (Psychology)
Wakefield, Emma Catherine (English Studies)

**Nagraadse Diploma in Tweedetaalstudie
Postgraduate Diploma in Second-language Studies**

Swart, Mathys De Villiers
Van Zyl, Esmalet

**Nagraadse Diploma in Toegepaste Etiek
Postgraduate Diploma in Applied Ethics**

Davies, Isabella Johanna
Lotz, Jan Willem
Ramarope, Matome Ephraim
Seshoka, Mputi Daniel
Snyman, Martha Maria
Thalane, Aubrey
Tjiharuka, David

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Postgraduate Diploma in Applied Ethics Cum Laude**

Dall, Yael Nicole
Gouws, Frances Mari
Martin, Moegamat Rayan
Raal, Ludwig
Van den Berg, Henrietta Susanna
Van Rooyen, Maricel

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Postgraduate Diploma in Knowledge and Information Systems
Management**

Bamuza, Tintswalo Reginah
Booi, Bulelwa Cynthia
Carolissen, Mark Antonio
Chawurura, Trymore
Chimoyo, Stacey Josie
Coetzer, Shanti-Gita
Du Toit, Charles Willy
Gaga, Phila Luleka
Gomba, Prayers Chido
Ipinge, Linea
Khuzwayo, Sibahle Gwendoline
Kufakwababa, Collen Zvandasara
Linda, Sipho Simon
Mabaso, Refiloe
Mana, Nqaba Hopewell
Mtungwa, Talent Sibongiseni
Nnadozie, Remigius Chidozie
Pale, Ramadimetja Esther
Pheiffer, Jaylene Samantha
Saaiman, Barthlomias
Tsutsa, Nathaniel Lesiba

**Nagraadse Diploma in Kennis- en Inligtingstelselbestuur Cum Laude
Postgraduate Diploma in Knowledge and Information Systems
Management Cum Laude**

Kajee, Ahmed Ismail
Wicomb, Lindsay Paul

**Nagraadse Diploma in Sosiaalwetenskaplike Metodes
Postgraduate Diploma in Social Science Methods**

Mhlongo, Sifiso Brian
Sikhwari, Matodzi Godfrey

**Nagraadse Diploma in Interkulturele Kommunikasie
Postgraduate Diploma in Intercultural Communication**

Amukoshi, Julia Shalongo-Shandje Ndinelago
Esbach, Nicole
Horn, Erika
Rikhotso, Boitumelo Veronicah

**Nagraadse Diploma in Interkulturele Kommunikasie Cum Laude
Postgraduate Diploma in Intercultural Communication Cum Laude**

Adams, Karen May
De Gouveia, Heather Michelle

**Nagraadse Diploma in Vertaling
Postgraduate Diploma in Translation**

Dreyer, Lizahn
Joubert, Talitha Abbie
Rondganger, Stephen Ralph

**Nagraadse Diploma in Vertaling Cum Laude
Postgraduate Diploma in Translation Cum Laude**

Scott, Hendrika Cornelia

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

Kruger, Leonora

**Nagraadse Diploma in Transdissiplinêre Gesondheids- en
Ontwikkelingstudie
Postgraduate Diploma in Transdisciplinary Health and
Development Studies**

Mwamba, Chanda Prudence

**Baccalaureus in die Lettere en Wysbegeerte
Bachelor of Arts**

Abrahams, Jesse Garth
Abrahams, Mu-Amr
Acutt, Rebekah Faith
Adicary, Wardah
Agenbach, Karlia
America, Beata Carina
Amsterdam, Lee-Ann Lucrechia
Anderson, Kathleen Jennifer
Andrews, Amy Dorothea
Andrews, Jason
Andrews, Wendall Deudon
Archibald, Nicholas Gregory
Arries, Levern Althea
Assheton-Smith, Carmen
Aucamp, Marthinus Wessel Wilhelmus
Azevedo, Kayla
Bangela, Andiswa
Barlow, Ashley
Barnard, Brittney Anne
Bateman, Pia Jade
Bates, Megan

Bean, Thandeka Amy Mthembu
 Beasley, Kelly
 Beaumont, Megan
 Beccaro, Claudia
 Beck, Kristin
 Beebee, Jenna Charlotte Isobel
 Bekker, Michané
 Beukes, Zariah
 Beukman, Eduard
 Bevis, Hannah Amy
 Binedell, Engelbert Junior
 Biscombe, Cleo Sabrina
 Bishop, Chloé
 Blakeway, Sarah Katherine
 Boesak, Lauren Ashley
 Bosman, Savanna
 Botes, Ernst Henck
 Botha, Jeanne Tricia
 Botha, Kerika
 Botha, Madelein
 Bothma, Jana
 Bowmaker, Jocelyn Laura
 Brand, Ilsebeth
 Brandt, Doniella
 Britz, Burgert Cornelius
 Brockman, Tristan Chelsea
 Brodie, Julia Ann Hilary
 Bruwer, Jesse Levonne
 Buchanan, Tegan Gemma
 Bugler, Nancy Amanda
 Burns, Megan
 Caister, Chloe Bernice
 Caldeira, Teniel
 Carolissen, Darren-Lee Randall
 Cawood, Alexander Nicholas
 Cele, Sbonisile Nomusa
 Chalmers, Brittany Inge
 Chandler, Laura Aster
 Christians, Inge Claudine
 Claassens, Jacqueline Suelene
 Clark, Jordan Andrew
 Cloete, Mariska Antoinette
 Cloete, Tanya
 Colan, Mischka Robyn
 Cole, Geena Joan
 Connan, Lily
 Critchfield, Bailee Laura
 Croukamp, Bradley Robert
 Cumming, Kerry Lynne
 Damons, Marecia
 Daniels, Chelsea Maree
 Daniels, Simone Andrea
 Daniels, Tasneem
 Darlington, Antonia Sophia
 Dart, Sarah Jean
 Davids, Aaliyah
 Davids, Danuchia Marichen
 Davids, Haanim
 Davids, Hanél
 Davids, Nabeelah
 Davids, Nabiela
 De Beer, Emile
 De Bruyn, Jaco Philip
 De Chalain, Kayla Leigh

De Jager, Mary-Anne Magdalene
 De Jager, Wiehahn Jacques
 De Villiers, Bianca
 De Villiers, Jacques
 De Vos, Megan
 Desi, Tandeka
 Dicks, Rouchelle
 Dix, Georgina Lauren
 Dali, Lungelwa Mbali
 Dow, Catherine Margaret
 Du Pisani, Tian
 Du Plessis, Monet Kiara
 Du Toit, Andrea
 Du Toit, Jacques Francois
 Du Toit, Nicola Hester
 Ducasse, Michael David
 Easton, Chelsea-Ann
 Eksteen, Elsa Elsabé
 Elliott, Georgina Anna
 Ellis, Kara Suzette
 Eloff, Dané
 Els, Andrea
 Engelbrecht, Lize
 Erasmus, Nicola
 Erasmus, Valerie
 Esser, Laura
 Eygelaar, Dewald
 Ferreira, Mieke
 Field, Courtney Anne
 Flexney, Justin Lyle
 Fortune, Nicole
 Foss, Keegan
 Fouche, Deidre
 Fouche, Nina
 Fourie, Charene
 Fourie, Danéll
 Frankfort, Tracey Leanne
 Fransman, Leigh-Ann
 Frantz, Cherylee Allan
 Fraser, Sally Jean Alice
 Gardiner, Jessica
 Gentleman, Claire Jane
 Gerber, Christine
 Gilchrist, Chloe
 Gildenhuys, Abigail Robyn
 Gilliland, Wianda
 Gold, Gabriella
 Gordon, Nizette Adri
 Götz, Gizellede Marguerite
 Govender, Jenisha
 Green, Kathryn Margaret
 Green, Rochelle Kirsten
 Greyling, Jana Andrea
 Grier, Harry Robert
 Grier, Monro
 Hall, Ella Rundle
 Hamilton Russell, Athene Isabella
 Harris, Henrico
 Harvett, Chloe Ann
 Hattingh, Hanri
 Haydricks, Monique Rose
 Helders, Micaela Mari
 Henecke, Meryl Arend
 Hermanus, Ute Inge

Heydenrych, Ingrid
 Hiles, Marc Anthony
 Hinz, Anja Stefanie
 Hope, Reuben Calvin
 Hopkins, Lucinda Anne
 Hudson, Kendra Norah
 Hull, Bianca
 Human, Liezl
 Immelman, Alexander
 Jacobs, Keenan Edward
 Janse van Rensburg, Hanjé
 Jeftha, Dominique
 Jentsch, Daniela Chantelle
 Jevremovic, Lana
 Johannes, Embeth Lisa
 Johnson, Damian
 Jones, Kimberley
 Jooste, Leroy
 Jordaan, Anmari
 Josephs, Jenne-Lee
 Josephs, Jessica
 Joubert, Brumilde
 Juul, William George
 Kahla, Ayanda
 Kamweny, Jennifer Odett
 Kapp, Elandré
 Kitshoff, Nicole
 Kluckow, Ingrid
 Knappe, Tinyiko Celestine
 Knox, Bronwyn-Leigh
 Koopman, Gabriella Simone Beatrice
 Koopman, Michaela Alshadi
 Kratzenstein, Saskia
 Kreuter, Riani
 Krone, David Christopher
 Kruger, Elizma
 Lakey, Jordan Sasha
 Lamprecht, Gert Johannes
 Langerman, Rupert Harold
 Lategan, Petrus Jacobus Johannes Stephanus
 Le Roux, Nathan William Swithun
 Le Roux, Nelmarie
 Leventhorpe, Holly Beth
 Levinrad, Nathan Vuyo
 Lewis, Jene
 Lewis, Lauren
 Lichtenberg, Florian
 Liddicoat, Donovan James
 Light, Rebecca Ann
 Loftus, Emma
 Lombard, Anneri
 Lourens, Igna Veronica
 Louw, Christal Lillibeth
 Louw, Jhandi
 Lowe, Chanelle Marguerite
 Lubinsky, Rigan
 Lucas, Byron John
 Lunde, Emma Elizabeth
 Lyne, Jessica
 Mabandla, Yamkelani
 Mac Farlane, Brogan Lane
 MacDonald, Emma Jane
 Madubela, Anathi
 Magazi, Zintle Felicity

Maheso, Liana Letabo
 Maloy, Ashwin Franco
 Manamela, Pretty
 Marais, Michel Claude
 Maree, Gabrielle
 Marthiti, Thozama Zukiswa Prudence
 Martin, Nicholas Mitchell
 Martin, Veneruru
 Mauger, Gemma
 May, Stefan
 Mazibuko, Nolwazi Charity
 McCaig, Georgina Louise
 McLaughlin, Liam
 McLean, Kay-Lynn
 Mdolomba, Philasande Vanessa Athandile
 Meinert, Katharine
 Meyer, Kim Lisa
 Meyer, Malikah
 Meyers, Jay-Dene Yvonnea
 Meyerson, Kerry Leigh
 Michel, Alessia Morgan
 Milton, Nirvana Chavon
 Minnaar, Samuel Zacharias
 Mmako, Keabetswe Melita
 Moffitt, Megan
 Mohamed, Zaynab
 Moodley, Nishai
 Mooneys, Roxanne
 Mostert, Jolene
 Mostert, Nélandré
 Mower, Caitlin
 Muatunga, Loide Kulaumone
 Mühlberg, Byron
 Mukuddem, Ammaarah
 Muller, Francé Jodie
 Muller, Kayla Ivanca
 Mundell, Kaylynn
 Murray, Marce
 Mvundla, Asanda Sinethemba Bridget
 Ncube, Cebisa Busisiwe
 Neethling, Liebe
 Nel, Anke
 Netley, Leska Kari
 Ngongo, Fika Ngwanyakazi
 Nitschke, Jandré Zuné
 Noble, Sean Tevin
 Nolan, Shannon Tara
 Nöthling, Johannes Jacobus
 Nowicki, Matthew Sandile
 Ntombela, Nomzamo Portia
 Nugent, Megan
 Nyamudeza, Tariro Salim
 O'Ryan, Emily
 October, Jamy-Lee Rachel
 Oelofse, Rogan Adrian
 Olivier, Jasmin
 Oram, Caryn
 Palmer, Daniel Justin
 Parenzee, Lauren Sadie
 Parks, Shannon-Leigh
 Patton, Benjamin Grant
 Peach, Lara Claire
 Petersen, Natalie Natasha
 Petersen, Sasha-Lee Michelle

Petzer, Jason
 Pieterse, Larochelle
 Pillay, Warren Lee
 Pitman, Michaela
 Platt, Carmen
 Powell, Alexander Steven
 Prinsloo, Almero
 Prinsloo, Carl
 Pryde, Alexandra Jane
 Quenet, Anthony Edward
 Quina, Percival John-Oliver
 Ramarumo, Aluwani Alice
 Ramsay, Lauren
 Rapoo, Koketso Mahlako
 Reeves, Brittany Ann
 Renault, Tom Gabriel
 Richter, Elsa
 Robbertze, Chad Clifford
 Robyntjies, Nathan Jevon
 Roelf, Veranne Keshia
 Rouillard, Nicole Juliette
 Rousseau, Alexander William Nicholas
 Rousseau, Sabrina
 Roux, Josephine Anne
 Rusch, Natasha Renee
 Salie, Nadia Djamila
 Sam-Kputu, Robert
 Sass, Shane Wilfred
 Schneider, Toni-Ann
 Schoeman, Henrietta
 Scholtz, Dewan
 Scholtz, Oliver Bradley
 Schooling, Luke Douglas
 Schwoerer, Margarete
 Schwulst, Victoria
 Setimela, Chawangwa
 Shawe, Robert Lionel
 Sheward, Hannah
 Shirley, Renee
 Sieberhagen, Corlia
 Simpson, Ashley-Kristen
 Slater, Tegan Dee
 Smale, Rebecca Sara Hilton
 Small-Smith, Maria Aletta
 Smit, Ancois-Mari
 Smit, Anke
 Smit, CJ Walter
 Smith, Jana Isobel
 Smith, Jodie
 Smith, Kenyon Carl
 Smith, Luke
 Smith, Monet
 Smith, Paige Taylor
 Smith, Raychelle Sue
 Snyman, Annerine
 Soeker, Imaad
 Solomon, Lynn-Mari
 Spangenberg-Europa, Ulricke Gretchen
 Spence, Michaela Lucy
 Steenkamp, Lauren Christine
 Steenkamp, Marie Naomi
 Steenkamp, Meagan Helouise Esme
 Steenkamp, Retseh
 Steyn, Elzaan

Strauss, Suzan
 Stretton, Grant Robert Sancoft
 Sutherland, James Andrew
 Swart, Catherine
 Swart, Gheum Luc
 Swart, Lisa Ray
 Swarts, Cheswill Arode
 Taylor, Olivia Victoria
 Theunissen, Andrea Leigh
 Thomas, Céline Michelle
 Titus, La-Retia
 Troskie, Elodi
 Tshangana, Ziphozihle
 Twani, Asibabale
 Ungerer, Kaylin
 Van Antwerpen, Rianka
 Van den Berg, Kathryn Ashleigh
 Van den Berg, Sophia Annika
 Van der Berg, Kara
 Van der Bijl, Klara-Lia
 Van der Bos, Amy Margaret
 Van der Colff, Simone
 Van der Merwe, Adrienne Madeleine
 Van der Merwe, Anke Irene
 Van der Merwe, Carmen Louise
 Van der Merwe, Helene
 Van der Merwe, Juliana
 Van der Merwe, Marc Jean
 Van der Merwe, Mari Mildred
 Van der Merwe, Nicola
 Van der Merwe, Ruben
 Van der Poel, Elandri
 Van der Spuy, Janie Inez
 Van der Westhuizen, Nicola
 Van Dyk, Joha
 Van Heerden, Tayla Melanie
 Van Huyssteen, Ingrid
 Van Lill, Eline
 Van Nieuwenhuizen, Alexandra
 Van Rensburg, Christiaan
 Van Rooyen, Jana
 Van Rooyen, Wilné
 Van Schalkwyk, Chanté Yolanda
 Van Schalkwyk, Leoni
 Van Wyk, Lucian
 Van Wyk, Zoe Maria
 Van Zyl, Elsmari
 Van Zyl, Hendrik Loubser
 Van Zyl, Sune
 Venter, Esna
 Viljoen, Nicola
 Viljoen, Shani Claudia
 Visagie, Alana
 Visser, Chame
 Volkwyn, Madison Colleen
 Wallace, Megan Lee
 Wannenburgh, Matthew Alfred John
 Wardle, Emma-Jo
 Watson, Courtney Lynn
 Wayne, Emma Louisa Yeats
 Webber, Marion
 Wilken, Anneki
 Williams, Cher Bianca
 Williams, Courtney

Williams, Dylan
Williams, Mishka Ashlynn
Wilson, Jade Kelly
Wimbush, Samantha Anne
Witbooi, Elisma Valansia
Wolhuter, Chesney
Wolvaardt, Janiné
Wright, Michael Duncan
Wulana, Sharon Zimkhitha
Xotyeni, Akhona Lerato
Yon, Courtney Terence
Young, Emily Jane

Baccalaureus in die Lettere en Wysbegeerte Cum Laude
Bachelor of Arts Cum Laude

Adaniya, Akiko
Adonis, Willan
Arnold, Kayla Shelley
Bernstein, Olivia
Beyers, Talya
Blom, Marilene Louise
Botha, Carma
Brand, Albert
Brookes, Ilse
Bueno Dias Andrade Cabral, Vitoria Cristiana
Came, Carmel
Cilliers, Juanita Suzanne
Coetzee, Katelin Zoe
Detering, Kirstin
Engelbrecht, Retha
Faro, Je-May Elzette
Gardner, Sarah Anne
Gaynor, Jessica Leigh
Geldenhuis, Demi Louise
Kershaw, André James Daniel
Khoury, Christie
Köhler, Nikita Stefanie
Luijk, Anneke
Marais, Micahla Mae
Mardon, Caylynn Julia
McCullough, Katie Leigh
McKenzie, Jenah
Meyer, Simónn
Muller, Andrea
Neville, Daniella Nasya
Odendal, Kayla
Sleet, Francesca Bryony
Snijman, Yda Comelia
Snyman, Jacoba Nicola
Theron, Liza
Thompson, Ashleigh
Van der Merwe, Kanja Susan
Van Niekerk, Megan Iris
Van Veijeren, Philna
Visagie, Shanna
Watkins, Chantelise
Zeeman, Alex Elizabeth

Baccalaureus in Maatskaplike Werk
Bachelor of Social Work

Adams, Nikita Nadine
Andries, Chamelle Tamika
Anthony, Carly Melissa
Blankers, Beatrice Hildegard

Blight, Keagan Brenlynn
Booyesen, Willmarie Lizaan
Cloete, Lizani ShaSha-Lee
Cloete, Sune
Davids, Runique
De Jongh, Samantha-Lee
Delport, Alitha-Marie
Diago, Nicco
Dukhan, Amanda Marsha
Dumas, Melina
Esau, Micealah Shanrose
Eslick, Amy Leigh
Fransman, Nizelle Jane
Germishuizen, Chamé
Hendricks, Joh-Stine Georgina
Herman, Clemencia Nowyda
Jack, Ntomboxolo Anita
Jacobs, Danyschka Ania Werner
Japhta, Tammy-Lee
Jooste, Edith Ursula
Joshua, Rugail
Le Roux, Gerhard Burger
Lourens, Diego Sunil Christopher
Lufuta, Idene Jo-Ann
Manda, Duduzile Eunice
Mantile, Zandile
Marais, Michaela
Mars, Réchelle Anthea
Marthinus, Heinrich Henrico
Martin, Georgina Adrienne
Mashaba, Bongani Paul
Mathontsi, Nonesi Tryphina
Micheals, Alrize
Moolman, Jodi-Leigh
Mpikashé, Nolubabalo
Mtombeni, Tirelo Esther
Neale, Ilze Karin
Ntonga, Zukiswa Stella
Paile, Mashilo William
Plaatjies, Aldene Rawaida
Pretorius, Tanya
Raubenheimer, Danuelle
Ruiters, Belinda Oliver
Russell, Jinné Christine
Smith, Chame Amber
Smith, Faadiya
Smith, Miche Eve
Strasheim, Aureal Veronica
Swart, Retha
Swart, Tanja Elma
Swartz, Petruschqa Bemalee Judine
Theron, Anneli
Van den Berg, Mariska
Van der Heever, Luke Alex
Visagie, Monroe
Vries, Christelle
Wiggett, Carly-Jane
Wilmot, Kelly Jessica
Yola, Nande

Baccalaureus in Maatskaplike Werk Cum Laude
Bachelor of Social Work Cum Laude

Strýdom, Nicole-Ann

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

ASHRAF KAGEE

Uitgelese prof Ashraf Kagee, 'n lid van die Wetenskapakademie van Suid-Afrika, was voorheen die ontvanger van al drie Rektorstoekenings vir Uitnemendheid: vir Navorsing, vir Ondemig en vir Sosiale Impak. Prof Kagee is die outeur van bykans 200 wetenskaplike publikasies en het verskeie nasionale en internasionale navorsingstoekenings ontvang. In 2012 het hy die Europese Unie se Literêre Toekenning en die Suid-Afrikaanse Literêre Toekenning vir sy debuutroman, *Khalil's Journey*, ontvang. Prof Kagee dien tans as mededirekteur van die Alan J Flisher Sentrum vir Openbare Geestesgesondheid, 'n wêreldklas-samewerkingssentrum van die Wêreldgesondheidsorganisasie.

Distinguished Prof Ashraf Kagee, a member of the Academy of Science of South Africa, has been the recipient of all three Rector's Awards for Excellence: for Research, for Teaching and for Social Impact. Prof Kagee is the author of nearly 200 scientific publications and has received numerous research awards from national and international grantmakers. In 2012 he received the European Union Literary Award and the South African Literary Award for his debut novel, *Khalil's Journey*. Prof Kagee currently serves as the co-director of the Alan J Flisher Centre for Public Mental Health, a leading World Health Organization Collaborating Centre.

LOUISE VILJOEN

Prof Louise Viljoen van die Departement Afrikaans en Nederlands is die akademiese outeur wat wêreldwyd die meeste aangehaal word oor die Afrikaanse letterkunde. Die navorsingsoeuvre wat sy oor meer as 40 jaar opgebou het, sluit al 3 tradisionele terreine van literatuurstudie in: literêre kritiek, literatuurgeskiedenis en literêre teorie. Sy het reeds 51 artikels, 28 hoofstukke in boeke en 3 boeke gelewer, en verder 3 poësiebloemlesings saamgestel, meestal as enkelouteur. Uit haar vele optredes by vakkongresse is sy 6 keer as hoofspreker genooi. Erkenning vir haar navorsingswerk blyk o.a. uit haar ontvangs van die SA Akademie vir Wetenskap en Kuns se Gustav Preller-prys vir Literatuurwetenskap en Letterkundige Kritiek in 2016. Professor Viljoen het hierdie besondere navorsingsprofiel geskep deur oor Afrikaans en dikwels in Afrikaans te skryf.

Prof Louise Viljoen of the Department of Afrikaans and Dutch is the academic author most cited in the field of Afrikaans literary studies both nationally and internationally. The research oeuvre that she has put together over more than 40 years, includes all 3 traditional areas of literature studies: literary criticism, literary history and literary theory. She has produced 51 articles, 28 book chapters and 3 books, and she has compiled 3 poetry anthologies, mostly as sole author. In 6 of her numerous appearances at academic conferences she was invited as keynote speaker. Among other awards for her research activities, she has received the Gustav Preller Award for Literary Science and Literary Criticism of the SA Academy for Science and Art in 2016. Professor Viljoen has created this outstanding research profile by writing about Afrikaans and also by often writing in Afrikaans.





3

14 Desember | 14 December

10:00

Fakulteite

Teologie

Ingenieurswese

Faculties

Theology

Engineering

PROGRAM

- Staan asseblief* 1. Akademiese prosesie kom die saal binne.
- Staan asseblief* 2. Sing van die Nasionale Lied (kyk aan die binnekant van die agterblad).
- Sit asseblief* 3. Konstituering deur die Kanselier.
4. Verwelkoming deur die Kanselier en prof Xolile Simon.
5. Voorstelling van kandidate wat kwalifikasies ontvang deur die dekaan van die fakulteit en die toekenning van kwalifikasies deur die Kanselier.
6. Voorstelling van die kandidate vir Kanselierstoekennings en oorhandiging van die toekennings deur die Kanselier.
7. Sluiting deur die Kanselier.
- Staan asseblief* 8. Akademiese prosesie verlaat die verhoog.

PROGRAMME

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

Doktor in die Wysbegeerte Doctor of Philosophy

BURRELL, Omele Kevin (Old Testament)

'From beyond the rivers of Cush': Negotiating ethnic identity and Cushite-Israelite interrelations in the Hebrew Bible

This study provides a more balanced view of Cushite ethnographic representations in the biblical literature by consciously leaving behind accepted stereotypes of Africa and people of African descent, which are largely a feature of the modern age. Thus, it sought to comprehend the biblical view of Cushites by examining comparative representations of Cushites in ancient Egypt and the Mediterranean and through a critical study of the theological outlook of the biblical authors who wrote about them. This study contributes to a clearer understanding of the theological, historical and ethnic dynamics underpinning representations of Cushites in the Hebrew Bible.

Supervisor: Prof LC Jonker

SLABBERT, Sarel Johannes Petrus (Old Testament)

Μαρὰνὰ θά as a hermeneutical key for interpreting the Imprecatory Psalms

The Imprecatory Psalms challenge academic and devotional readers alike. It was determined that the curses in Psalms 7, 35 and 59 were expressed in times when enemies were out to destroy the psalmists. The only option was to call on the covenantal God to judge the enemies and vindicate the righteous. This study suggests that the cry Μαρὰνὰ θά, in 1 Corinthians 16, which is used in conjunction with the curse ἀνάθεμα, can serve as hermeneutical key to understanding these Psalms. It becomes a prayer that offers an analogy between the hopes and desires of the psalmists and of those calling on the Lord to return.

Supervisor: Prof LC Jonker

Co-supervisor: Prof J Punt

SINDO, Vuyani Stanley (New Testament)

The interrelationship between leadership and identity formation in the Corinthian correspondence: A study of 1 Corinthians 1–4

The interrelationship between leadership and identity in Paul's first letter to the Corinthians is established through his use of ἐν Χριστῷ and κλησίς terminologies. Using social-scientific approaches and social identity theory in particular, and cognisant of leadership patterns in the ancient Greek and Roman world, Paul is shown as re-establishing himself as leader by relying on consensualisation processes and presenting himself as prototype for the group. Paul's group entrepreneur strategy both reminds the community about their identity 'in Christ' and pose an alternative leadership strategy to the prevailing, contemporary notions of wisdom and power.

Supervisor: Prof J Punt

LEE, Ki Woon (New Testament)

Identity and moral formation in early Christian communities: Discursive functioning of Paul's use of scripture in First Thessalonians

The study explored the nature and purpose of Paul's discourse in 1 Thessalonians, focusing on his strategies of strengthening the identity and ethos of a first-century (predominantly Gentile) faith community. It argues that the author's thinking in the world of Hellenistic Judaism was fundamentally shaped by the Hebrew Scriptures, and concludes by indicating how echoes from these Scriptures (such as holiness, new covenant and day of the Lord) probably functioned to reinterpret the lives of the Thessalonian believers as God's chosen people, in continuation with Israel. This dynamic process is briefly reappropriated in the context of contemporary moral challenges in South Korea.

Supervisor: Prof AEJ Mouton

VAN DEVENTER, Cornelia (New Testament)

Embracing vulnerability: A drama analysis of the Johannine prologue and crucifixion scenes

The Fourth Gospel presents Jesus' life as a display of glory and vulnerability, communally witnessed by and inviting a response from its audience. The study read the Gospel's prologue and crucifixion scenes through a drama lens in order to explore its point of view on vulnerability as well as its probable effect on a first-century audience immersed in a culture of honour, power and dominance. It argues that the appropriation of biblical drama criticism holds the potential to illuminate the audience's own journey of vulnerability with the performance and to instil hope in various vulnerable contexts, including that of contemporary faith communities.

Supervisor: Prof AEJ Mouton

Doktor in die Wysbegeerte Doctor of Philosophy

CRAIG, Omotoyosi Onalapo (Industrial Engineering)

Concentrating solar power (CSP) technology adoption in South Africa

Concentrating solar power (CSP) technology generates heat that can be stored and thus makes the electricity from it available at night or on demand. Despite these promises and the available solar resources in South Africa, the adoption of CSP has been slow due to its relative newness and other technical and non-technical factors. This study used systems dynamics and technology management principles to demystify the complexities surrounding the adoption of CSP in South Africa. The results suggest actions that must be taken for South Africa to maximise the available solar resources and be a global champion in CSP technologies.

Supervisor: Prof AC Brent

Co-supervisors: Prof F Dinter and Ms IH de Kock

DE KOKER, Nico Pieter Jan (Civil Engineering)

Reliability-based design in geotechnical engineering

Standardising probabilistic reliability analysis in geotechnical design would allow engineers to deliver safer and more economical design solutions. The feasibility of such a normative document was assessed in the context of existing design standards by considering parameter statistics, sampling and problem types generally encountered in routine geotechnical design. Suitable analysis methods to be specified in the proposed standard were identified, together with the associated scope of problems it could cover. Additional requirements identified include unbiased resistance models, agreed-upon material parameter distribution types and the use of samples that consist of more specimens than the norm in current routine practice.

Supervisor: Prof PW Day

Co-supervisor: Prof C Viljoen

DEWA, Mncedisi Trinity (Industrial Engineering)

Digitisation of shop-floor operations in the South African tool, die and mould-making industry

Digitisation has been advocated as a possible strategy to improve the competitiveness of tool, die and mould-making (TDM) companies in the 21st century. The recent rise of digital technologies such as the Internet of Things devices makes digitalisation an achievable reality. This study focused on the digitisation of shop-floor operations in the South African TDM industry through the development of a novel mobile data collection tool known as a Shop-floor Management System (SMS). The developed SMS was deployed to and validated in a selected tooling company for various products. The developed system effectively improved shop-floor real-time data collection.

Supervisor: Dr S Matope

Co-supervisor: Prof AF van der Merwe

ENGELBRECHT, Ruan Aldrich (Mechanical Engineering)

Numerical investigation of fan performance in a forced-draft air-cooled heat exchanger

In this study, computational fluid dynamics was used to develop and validate a numerical air-cooled condenser (ACC) model consisting of an axial flow fan and heat exchanger in OpenFOAM. These ACCs find application in both large coal-fired and smaller concentrated solar power plants. As such, their optimal performance is essential for reducing the water consumption of South Africa's power supply infrastructure. The model was used to determine the performance of ACCs with different fan configurations and layouts in windy conditions. A novel approach to the on-site measurement of fan flow rate was also evaluated numerically.

Supervisor: Prof CJ Meyer

Co-supervisor: Prof SJ van der Spuy

FERREIRA, Machel (Chemical Engineering)

Phase equilibria and thermodynamic modelling of the ternary system CO₂ + 1-decanol + n-tetradecane

New high-pressure phase behaviour data of the ternary system CO₂ + 1-decanol + n-tetradecane revealed complex phase behaviour regions at near- and supercritical conditions. These complexities were linked to distinct 1-decanol + n-tetradecane molecular interactions, confirmed by new low-pressure phase equilibria data. The vapour-liquid equilibria of the ternary system were used to identify the conditions at which separation of residual n-tetradecane from 1-decanol is hindered. Furthermore, four thermodynamic models were used to show that high- or low-pressure 1-decanol + n-tetradecane interaction parameters can be used to improve model correlations of the ternary system.

Supervisor: Prof CE Schwarz

GARIYAKI, Talon (Mechatronic Engineering)

Development of a robust myoelectric control architecture for lower-limb robotic prosthetic applications

The use of a passive foot with a fixed ankle has negative effects, which include asymmetric gait, osteoporosis and musculoskeletal problems. The research aimed at alleviating these problems by developing a myoelectric robust control architecture for lower-limb robotic prosthetic applications. Initially, muscles at the residual amputated stump were characterised along with anatomical and orientation angles of the amputee during normal gait. An intelligent control architecture was developed based on linear support vector machines. The developed biomechatronic robotic prosthetic ankle achieved a classification accuracy of 99.25% and has the capability to restore a symmetrical amputee's gait, thereby improving amputee lifestyle.

Supervisor: Dr D van den Heever

Co-supervisor: Dr S Matope

NIENABER, Ernst Carel (Extractive Metallurgical Engineering)

Monitoring, modelling and simulation of spiral concentrators

This study addressed the problem of spiral concentrator monitoring within spiral plants. A new type of interface sensor is proposed to monitor spirals and the optimality of spiral splitter settings. Experimental work was conducted to test interface detection software on industrial slurries and to prepare a new spiral model required for appropriate spiral plant simulations. An established state estimation-based approach to sensor placement was compared to a new metallurgical performance-based approach. The new sensor placement method provides a more suitable objective function that compares the sensor cost and plant revenue improvements for different sensor configurations.

Supervisor: Dr L Auret

NTEZIYAREMYE, Pascal (Civil Engineering)

Investigating the link between the built environment and the incidence of pedestrian crashes in Cape Town, South Africa

This study investigated relationships between the built environment – density, land use, urban design and transportation systems – and pedestrian crash incidence. Generalised linear models and geographically weighted regression models were used to develop predictive models of pedestrian crashes based on information on the built environment. Moreover, geospatial analyses were used to identify pedestrian crash hotspots. The model results indicate that population number, land use mix, four- and multi-legged intersections, signalised intersections, road classes and roundabouts/mini-circles are all positively associated with pedestrian crash frequency. The models can be used to predict future pedestrian crashes using information that is easily available at city level.

Supervisor: Prof M Sinclair

OLALUSI, Oladimeji Benedict (Civil Engineering)

Reliability assessment of shear design provisions for reinforced concrete beams with stirrups

Ensuring adequate shear capacity in bridges and buildings is a main aim of structural design.

However, shear capacity prediction is difficult and predictions contain high bias and uncertainty compared to experimental test results. In this study, this uncertainty was quantified for the best shear prediction models. The reliability performance of shear design formulations from the world's leading design standards was subsequently probabilistically assessed. The Eurocode (adopted in South Africa) formulation tends to be over-conservative and thus uneconomical in weak beams. The ACI and MC2010 formulations tend to marginal performance for deep beams and can be unsafe for very deep beams. Future improvements should address these concerns.

Supervisor: Prof C Viljoen

PILLAY, Nalini Sooknanan (Industrial Engineering)

System dynamics simulation of income distribution and electric vehicle diffusion for electricity planning in South Africa

An adapted system dynamics modelling process was used to determine the provincial affordability of battery electric vehicles (BEVs) in South Africa and the impact on electricity consumption and carbon emissions in the electricity and transport sectors. The results indicate that BEV market penetration, based on consumer vehicle expenditure behaviour by 2040, results in 44 155 BEVs instead of 233 700 (based on the GDP parametric) and 451 736 instead of 2 389 950 BEVs (based on South Africa's commitment in the Paris Agreement). From 2019 to 2040, BEV drivers will add a cumulative 2 764 GWh. With a coal-heavy supply mix, no gains in carbon emission reduction was observed.

Supervisor: Prof AC Brent

Co-supervisors: Profs SS Grobbelaar and JK Musango

POURBEHI, Mohammad Sadegh (Civil Engineering)

Numerical modelling of alkali silica reaction in concrete dams

A number of concrete structures, such as dams and bridges and, more recently, nuclear power plants, have been affected by alkali silica reaction (ASR), a deleterious phenomenon degrading concrete material. ASR is a long-term chemical reaction that causes swelling and damage to the concrete material in the form of material deterioration and cracking. In this study, a numerical finite element model was developed for analysing concrete dams affected by ASR. Incorporating key chemical, physical and mechanical factors, the model simulates damage to existing dams accurately, allowing reliable prediction of instability under earthquake action and assessment of rehabilitation strategies.

Supervisor: Prof JAvB Strasheim

Co-supervisor: Prof GPAG van Zijl

RAKOTONIRAINY, Rosephine Georgina (Industrial Engineering)

Metaheuristic solution of the two-dimensional strip-packing problem

The two-dimensional strip-packing problem consists of packing a set of rectangular items into a single object of fixed width in a non-overlapping manner, with the objective of minimising the packing height. A large set of strip-packing benchmark instances from the literature was clustered into different sets of test problems. Two new metaheuristics were proposed and compared with a representative sample of metaheuristics from the literature in the context of the clustered test problems. It was found that the new algorithms outperform the existing metaheuristics and that the characteristics of the test problems affect the solution qualities achieved by the various algorithms.

Supervisor: Prof JH van Vuuren

SCHMIDT-DUMONT, Thorsten (Industrial Engineering)

Reinforcement learning for the control of traffic flow on highways

Traffic congestion has become a significant problem around the world. Due to spatial limitations, highway capacity expansion is not always a feasible solution. Ramp metering and variable speed limits are the best-known highway traffic control measures. A novel approach towards simultaneously solving the associated control problems by reinforcement learning is proposed. Furthermore, a novel method of ramp metering by autonomous vehicles, where instructions may be provided to autonomous vehicles, was developed. These approaches were evaluated in a simulated real-world scenario of a section of the N1 highway outbound out of Cape Town, and significant improvements in the traffic flow were observed.

Supervisor: Prof JH van Vuuren

Co-supervisor: Ms M Bruwer

SHARMA, Satyam Kumar (Electronic Engineering)

Variable bandwidth planar coupled resonator filters utilising tunable non-resonant node inverters

Tunable microwave filters are in high demand for the new generation of wireless communication systems. This work presents a new type of filter that enables the electronic control of the filter bandwidth, using a very simple circuit that makes use of varactor diodes. The capacitances of these diodes are tuned using a control voltage, and by adding them to a non-resonant line between successive resonators, a tunable bandwidth is achieved. The technique is illustrated on two different classical topologies. Using this technique, the same receiver can be used for different data streams at different frequencies.

Supervisor: Prof P Meyer

STEEB, Jan-Willem Walter (Electronic Engineering)

Localisation and mitigation of radio frequency interference for interferometric arrays

The new generation of radio telescopes, leading towards the Square Kilometre Array (SKA), is far more susceptible to radio frequency interference (RFI) than its predecessors. RFI mitigation requires localising interference sources, some of which can be dealt with directly, and then developing strategies for filtering them out. This work has made contributions in both fields. A new algorithm for rapidly localising RFI sources in the vicinity of the array was introduced and tested on LOFAR in the Netherlands. In addition, a new method for suppressing wideband RFI was developed. As the electromagnetic spectrum is increasingly fully utilised by humanity, this work is most timely.

Supervisor: Prof DB Davidson

Co-supervisor: Prof SJ Wijnholds

STOFBERG, Anneke (Electronic Engineering)

Phase-tracking electronically variable attenuators with receiver protection

Multi-channel digital beamforming radar receivers use receiver protectors to both protect against damaging signals and give controlled attenuation over time to prevent receiver saturation. In this study, a set of phase-tracking electronically variable attenuators with receiver protection was developed for such systems. Sensitivity analysis was used to compare different electronically variable attenuators and a cascade parallel quarter-wave attenuator was identified as having optimal phase-tracking over control range. A planar limiter was developed for receiver protection and its power-handling ability was characterised through a high-power measurement technique that extracted the PIN diode's minimum attainable resistance.

Supervisor: Prof JB de Swardt

Co-supervisor: Prof PW van der Walt

VAN DER WESTHUIZEN, Ewald (Electronic Engineering)

Language modelling for code-switched automatic speech recognition in five South African languages

Language alternation in speech (code switching) is prevalent in multilingual societies, but currently not addressed in language technologies such as automatic speech recognition. The statistical modelling of code switching in spontaneous English-Zulu, English-Xhosa, English-Tswana and English-Sotho was investigated. As code switching is extremely sparse even in the deliberately compiled data, methods of artificially synthesising unseen language transition were considered. It was shown that, using word embeddings trained on more readily available monolingual text, synthetic code-switch bigrams could be synthesised, which reduces the confusion at language boundaries and thereby improves speech recognition performance.

Supervisor: Prof TR Niesler

Fakulteit Teologie | Faculty of Theology

Magister in die Teologie Master of Theology

Danjuma, Peter Makoshi (New Testament)
Hombana, Mphumezi (New Testament)
Kesmen, Sati Yohanna (Systematic Theology)
Orpin, Dooyum Atindi (New Testament)
Yusuf, Philemon Tagwai (Practical Theology)

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Mhlongo, Makhosazana
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**Magister in die Ingenieurswese
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 Kirsten, Tyler Tremayne (Mechatronics)
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 Rossow, Jeandre (Mechanical)
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 Saal, Timothy Alexander (Mechanical)
 Sabad, Timothy-John Marcus (Electrical and Electronic)
 Samsodien, Mash-Hood (Civil Engineering)
 Sayed, Atiyyah (Industrial)
 Schaefer, Helené Petronel (Industrial)
 Schalekamp, Kristine Magrith (Chemical)
 Scheepers, David Johannes Jacobus (Electrical and Electronic)
 Scheepers, Mome (Mechanical)
 Schlagbauer, Bernhard Michael (Mechanical)
 Scholtz, Armand (Electrical and Electronic)
 Schwaeble, Claudia Francesca (Mechatronics)
 Sciocatti, Victor Jan (Electrical and Electronic)
 Searle, Kit (Industrial)
 Setati, Tiro (Electrical and Electronic)
 Sibanda, Alford Mbongeni (Electrical and Electronic)
 Sinclair, Kennett Andrew (Mechanical)
 Sitela, Vuyo (Civil)
 Slabber, Johannes Francois (Mechatronics)
 Smit, Charl (Electrical and Electronic)
 Smit, Chris (Electrical and Electronic)
 Smith, Carl Moses (Chemical)
 Smith, Wesley Matthew (Electrical and Electronic)
 Snyders, De-Ann (Industrial Engineering)
 Stapelberg, Belinda (Industrial)
 Stassen, Jacob (Electrical and Electronic)
 Stewart, Bertie (Civil)
 Steyn, Carmen (Industrial)
 Steyn, Loubser (Civil)
 Stiemens, Corbin Alexander (Chemical)
 Strassberger, Heinrich Max Willi (Electrical and Electronic)

Strauss, Daniel Johannes (Mechanical)
 Strauss, Johannes Albertus Basson (Civil)
 Strauss, Liani Rosa (Industrial)
 Strauss, Lourens (Civil)
 Strauss, Shaun Hendrik (Civil)
 Streuderst, Anchen (Civil)
 Strydom, Christo Muller (Civil)
 Sulon, Darren Anthony (Civil)
 Sutherland, Gemma Paige (Industrial)
 Swanepoel, Louise (Electrical and Electronic)
 Swanepoel, Nicholas John (Mechatronics)
 Swanevelder, Paul Luke (Mechanical)
 Swart, Nicolaas Gerhardus (Industrial)
 Swart, Wium (Electrical and Electronic)
 Swigelaar, Dylan (Chemical)
 Ter Haar, Geerten (Civil)
 Theron, Jacques (Mechanical)
 Theron, Werner (Chemical)
 Tiedt, Darryn Travis (Mechanical)
 Truter, Riaan-Erik (Mechatronics)
 Van Amstel, Christian Leonard (Mechanical)
 Van Coller, Cari (Chemical)
 Van Coller, Conrad Bartho (Mechanical)
 Van den Berg, Matthew Shane (Mechatronics)
 Van den Heever, Marchant (Civil)
 Van der Berg, Alro Watts (Electrical and Electronic)
 Van der Berg, David John (Chemical)
 Van der Linde, Frans Johannes (Chemical)
 Van der Linde, James Emile (Mechatronics)
 Van der Linden, Matthew (Mechatronics)
 Van der Merwe, André (Chemical)
 Van der Merwe, Amo (Electrical and Electronic)
 Van der Merwe, Laubscher (Industrial)
 Van der Merwe, Melt Gerhard (Civil)
 Van der Merwe, Roelof Du Toit (Chemical)
 Van der Merwe, Rouxlene (Industrial)
 Van der Vyver, Stephan (Electrical and Electronic)
 Van der Westhuizen, Daniël Stefanus (Electrical and Electronic)
 Van Dyk, Claudia (Mechanical)
 Van Eeden, Christiaan Benjamin (Electrical and Electronic)
 Van Eeden, Cornelis Coenraad (Electrical and Electronic)
 Van Marken, Matthew Anthony (Mechatronics)
 Van Molendorff, Gunther (Mechanical)
 Van Niekerk, Suzanne (Chemical)
 Van Reenen, Brandon Mathew (Civil)
 Van Rensburg, Armin Juan (Chemical)
 Van Romburgh, Kenny (Mechanical)
 Van Schalkwyk, Johannes Wallace (Mechanical)
 Van Tonder, Marcelle (Chemical)
 Van Wageningen, Roelof Pienaar (Mechatronics)
 Van Wyk, Gerhardus Francois (Civil)
 Van Zuydam, Armand (Mechanical)
 Van Zyl, Cobus (Mechanical)
 Van Zyl, Juandré Eric (Civil)
 Van Zyl, Megan (Industrial)
 Van Zyl, Rachel Elizabeth (Mechanical)
 Van Zyl, Stephanus Francois (Mechanical)
 Vermeulen, Marene (Civil)
 Viljoen, Hermanus Carl (Mechanical)
 Visser, Daniel Johannes (Civil)
 Visser, Jacobus Gabriel (Mechanical)

Viviers, Neil (Chemical)
Wagner, Dane Ricardo (Electrical and Electronic)
Walker, Jason Shaun (Civil)
Watkinson, Erinlee (Industrial)
Weber, Ian Robert (Electrical and Electronic)
Whitehead, Marisse Anchen (Mechanical)
Whitlow, Evan Bruce (Civil)
Wilcox, Daniel David (Mechatronics)
Wilkinson, Nicholas James (Electrical and Electronic)
Wilson, Katherine (Chemical)
Wolfaardt, James Benjamin (Mechatronics)
Wolmarans, Thomas William (Mechanical)
Wood, Meaghan Cher (Chemical)
Zachariah, Jaison (Electrical and Electronic)
Zonnestein, Wouter (Mechanical)

Baccalaureus in die Ingenieurswese *Cum Laude*
Bachelor of Engineering *Cum Laude*

Bossau, Jesslyn Cassandra (Mechatronics)
Cilliers, Pierre Ian (Electrical and Electronic)
Colclough, Michael (Civil)
Dawe, Alon Reuven (Mechatronics)
Dormehl, Tanya (Mechanical)
Gebers, Joseph Christopher (Chemical)
Harper, Victoria Eve (Industrial)
Jansen, Daniel Christopher (Mechatronics)
Keet, Robyn Lee (Industrial)
Kotzé, Jacobus Marius (Electrical and Electronic)
Lambson, Oliver Carr (Mechatronics)
Liebenberg, Andreas Denan (Mechanical)
Lyners, Danielle Hilde (Electrical and Electronic)
Matthee, James John (Mechanical)
Meylahn, Benedikt Valentin (Industrial)
Nortje, Aletta Susanna Elizabeth (Electrical and Electronic)
Orsmond, Jedd Liam (Chemical)
Pretorius, Isabel (Electrical and Electronic)
Rawlins, Brad Travis (Mechanical)
Rice, Cailin Maria (Mechatronics)
Ritchie, Michael Jon (Electrical and Electronic)
Smit, Mari-Alet (Chemical)
Spies, Ruan Arnold (Industrial)
Taylor, Nicole Catherine (Mechatronics)
Theunissen, Carl Daniel (Chemical)
Ubbink, Johan Bernard (Electrical and Electronic)
Van der Walt, André (Chemical)
Van der Westhuyzen, Stephanus (Civil)
Van Niekerk, Johann Ernst (Industrial)
Van Niekerk, Marike Arndt (Chemical)
Van Zijl, Natali (Chemical)
Viljoen, Ruan Matthys (Electrical and Electronic)
Weideman, Rina-Mari (Electrical and Electronic)
Winter, Jessica May (Civil)

KANSELIERSTOEKENINGS | CHANCELLOR'S AWARDS

Fakulteit Ingenieurswese | Faculty of Engineering

HERMAN STEYN

Prof Herman Steyn het op nasionale en internasionale vlak 'n beduidende bydrae tot die ruimtebedryf gelewer, en word as 'n wêreldleier in satellietbeheerstelsels erken. Hy was 'n belangrike lid van die Universiteit Stellenbosch-ingenieurspan wat die eerste Suid-Afrikaanse mikro-satelliet ontwikkel en vervaardig het wat in 1999 gelanseer is. Hy was ook die tegniese leier vir die ontwikkeling van die momentumwiel vir die ESA Rosetta Lander-ruimtetuig wat die eerste suksesvolle landing op 'n komeet in 2014 voltooi het. Prof Steyn is 'n NRF B-gegradeerde navorser en is onlangs internasionaal vereer deur verkies te word as 'n volle lid van die Internasionale Akademie vir Ruimtevaartkunde.

Prof Herman Steyn has made a significant contribution to the local and international space industry and is recognised as a world leader in satellite control systems. He was a key member of the Stellenbosch University engineering team that developed and manufactured the first South African micro-satellite launched in 1999. He was also the technical lead for the development of the momentum wheel for the ESA Rosetta Lander spacecraft, which completed the first successful landing on a comet in 2014. Prof Steyn is an NRF B-rated researcher and was recently honoured by being elected as a full member of the International Academy of Astronautics.

COBUS ZIETSMAN

Mnr Cobus Zietsman se impak op die ontwikkeling van praktiese kennis van vele jong ingenieurs kan nie oorskat word nie. As laboratoriumbestuurder van die Departement Meganiese en Megatroniese Ingenieurswese werk hy nou saam met voor- en nagraadse studente, en het 'n volgehoue passie vir hul ontwikkeling. Gehalte, aandag aan detail en veiligheid is vir hom ononderhandelbaar. Onder sy bekwame leiding en toesig het die Departement se laboratoria ontwikkel tot wêreldklas-fasiliteite wat uitstaande navorsing en onderrig ondersteun. Hy was betrokke by verskeie plaaslike en internasionale volskaalse toetswerk op lugverkoelde warmteruilers. Hy het al vier keer die Rektorstoekenning vir Uitnemende Diens ontvang.

Mr Cobus Zietsman's impact on the development of the practical knowledge of many young engineers cannot be underestimated. As the Department of Mechanical and Mechatronic Engineering's laboratory manager he works closely with under- and postgraduate students, and has a keen passion for their development. Quality, attention to detail and safety are non-negotiable for him. Under his able leadership, the Department's laboratories have developed into world-class facilities that support outstanding research and teaching. He was involved in a number of local and international full-scale tests of large, air-cooled heat exchangers. He has received the Rector's Award for Excellent Service on four occasions.