



### Beste Matie-graduandus

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

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

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

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

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

Ons beste wense vergesel jou!

Prof Wim de Villiers  
Rector en Visekanselier

### Dear Matie Graduate

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

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

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

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

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

Our best wishes accompany you!

Prof Wim de Villiers  
Rector and Vice-Chancellor

### Ophumelele Ematie Othandekayo

Sithi huntshu kuwe khwalifikeshini oza kuyifumana namhlanje. Siyazidla ngawe!

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

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

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

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

Sikunqwenelela eyona minqweno mihle!

Njing Wim de Villiers  
INqununu noSekela-Tshansila

## **Ons Visie 2040**

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

## **Ons Missie**

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

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## **Our Vision 2040**

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

## **Our Mission**

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

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## **Umbonoweth ka2040**

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

## **Ubizo Lwethu**

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

## **Kanselier | Chancellor**

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

## **Rektor en Visekanselier | Rector and Vice-Chancellor**

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

## **Voorsitter van die Raad | Chairperson of Council**

Mr GM Steyn, BA, LLB

## **Uitvoerende Bedryfshoof | Chief Operating Officer**

Prof SA du Plessis, BComHons, MPhil, PhD

## **Viserektor (Sosiale Impak, Transformasie en Personeel)**

## **Vice-Rector (Social Impact, Transformation and Personnel)**

Prof NN Koopman, BA, MTh, DTh

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

Prof A Schoonwinkel, PrEng, MEng, MBA, PhD

## **Viserektor (Navorsing, Innovasie en Nagraadse Studies)**

## **Vice-Rector (Research, Innovation and Postgraduate Studies)**

Prof TE Cloete, MSc, DSc

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

Prof HC Kloppe, 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 hooftoois. 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.matiesconnect.com](http://www.matiesconnect.com), dophou vir interessante nuus en inligting oor konvokasievergaderings.**

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## 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.matiesconnect.com](http://www.matiesconnect.com), for interesting news and information about convocation meetings.**

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## 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.matiesconnect.com](http://www.matiesconnect.com), ukufumana iindaba ezinika umdla kunye nenkcukacha emalunga neentlanganisano zekhonvokheyishini.**

# Diploma- en Gradeplegtighede | Diploma and Graduation Ceremonies

## 1. 4 April 2019 (10:00)

### Fakulteit Ekonomiese en Bestuurswetenskappe | Faculty of Economic and Management Sciences

Doktorsgrade | Doctorates ..... 10

Ander kwalifikasies | Other qualifications..... 11

NGDip (AktWet), NGDip (Bemark), NGDip (MIV/VIGS-bestuur), NGDip (Vervoer en Log), BCom (ingesluit Regsgeleerdheid), HonsBCom (uitsluitend Openbare en Ontwikkelingsbest), MCom, MPhil, PhD (Stellenbosch)

PGDip (ActSc), PGDip (Marketing), PGDip (HIV/AIDS Management), PGDip (Transport and Log), BCom (including Law), BComHons (excluding Public and Development Management), MCom, MPhil, PhD (Stellenbosch)

## 2. 4 April 2019 (17:00)

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

Doktorsgrade | Doctorates ..... 20

Ander kwalifikasies | Other qualifications..... 24

Uitsluitend BA (Regsgeleerdheid)

Excluding BA (Law)

## 3. 5 April 2019 (10:00)

### Eregraad | Honorary Degree

Lloyd Nicholas Trefethen ..... 34

### Fakulteit Natuurwetenskappe | Faculty of Science

Doktorsgrade | Doctorates ..... 35

Ander kwalifikasies | Other qualifications..... 42

### Fakulteit Opvoedkunde | Faculty of Education

Doktorsgrade | Doctorates ..... 39

Ander kwalifikasies | Other qualifications..... 44

### Fakulteit Regsgeleerdheid | Faculty of Law

Doktorsgrade | Doctorates..... 40

Ander kwalifikasies | Other qualifications ..... 45

BA (Regsgeleerdheid), LLB en nagraadse kwalifikasies van Regsgeleerdheid

BA (Law), LLB and postgraduate qualifications of Law

### Fakulteit Krygskunde | Faculty of Military Science

Doktorsgrade | Doctorates ..... 41

Ander kwalifikasies | Other qualifications..... 46



A decorative image of oak leaves in the top left corner of the page.

# 1

4 April

10:00

## Fakulteit

### *Ekonomiese en Bestuurswetenskappe*

*NGDip (AktWet), NGDip (Bemark), NGDip (MIV/ VIGS-bestuur), NGDip (Vervoer en Log), BCom (ingesluit Regsgeleerdheid), HonsBCom (uitsluitend Openbare en Ontwikkelingsbest), MCom, MPhil, PhD (Stellenbosch)*

## Faculty

### *Economic and Management Sciences*

*PGDip (ActSc), PGDip (Marketing), PGDip (HIV/ AIDS Management), PGDip (Transport and Log), BCom (including Law), BComHons (excluding Public and Development Management), MCom, MPhil, PhD (Stellenbosch)*





# 1

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## PROGRAM

- |                        |   |
|------------------------|---|
| <i>Staan asseblief</i> | 1. Akademiese prosesie kom die saal binne.  |
| <i>Staan asseblief</i> | 2. Sing van die Nasionale Lied (sien binnekant van die agterblad).  |
| <i>Sit asseblief</i>   | 3. Konstituering deur die Visekanselier.  |
|                        | 4. Verwelkoming deur die Visekanselier.   |
|                        | 5. Verwelkoming in Xhosa.   |
|                        | 6. Voorstelling van kandidate wat kwalifikasies ontvang deur die dekaan van die fakulteit en toekenning van kwalifikasies deur die Visekanselier. |
|                        | 7. Sluiting deur die Visekanselier.   |
| <i>Staan asseblief</i> | 8. 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-Chancellor.   |
|                     | 4. Welcome by the Vice-Chancellor.   |
|                     | 5. Welcome in Xhosa.   |
|                     | 6. Presentation of candidates receiving qualifications by the dean of the faculty and conferment of qualifications by the Vice-Chancellor. |
|                     | 7. Closing by the Vice-Chancellor.   |
| <i>Stand please</i> | 8. The academic procession leaves the stage.   |

## **Doktor in die Wysbegeerte** **Doctor of Philosophy**

**ADAMS, Samantha Pedro** (Industrial Psychology)

*The role of gamification in the facilitation of student engagement: An exploratory industrial psychology application*

Educational gamification is posited as a strategy for enhanced student engagement. This study proposes a framework of educational gamification design principles for the facilitation of student engagement. Guided by a design-based research approach and mixed-methods data collection, an intervention was developed and evaluated. Specific practical and theoretical outcomes were achieved, including a framework of design principles and guidelines for gamifying online learning environments that facilitate student engagement and important insights into the dynamic interplay between the dimensions of student engagement, user experiences, context and game elements. The study demonstrates the potential of educational gamification as a tool to facilitate student engagement.

**Supervisor:** Prof R du Preez

**HAVEMANN, Roy Charles** (Economics)

*Lessons from South African bank failures 2002–2014*

The study investigated a turbulent era in the South African banking sector and provides an analysis and insights into three specific events that influenced the South African financial system. The study was not only conceptualised in the South African milieu, but also drew on international events and contexts to position the study in both national and international literature. The study clearly makes a contribution to understanding the causes and consequences of the various banking crises in South Africa during the period 2002–2014. The study sheds light on the reasons why certain small banks failed after the Saambou 2002 collapse while others survived, and demonstrates that the consolidation and further polarisation of the banking sector were a result of a failure to correctly respond to and dissolve the crisis. The contribution of macroprudential regulation to the resilience of the banking sector during the 2008 financial crisis, and in this instance the pro-active actions taken by the authorities, was analysed. The successful bail-in of creditors in South Africa was recorded, following the failure of African Bank, and the study not only shows the origin of the crisis, but also provides guidelines for future bail-ins. The study makes a contribution towards macroprudential and monetary policy and provides guidance on possible actions for future bank and financial crises.

**Supervisor:** Prof S du Plessis

**MAKALUZA, Nwabisa Nangamso** (Economics)

*An empirical investigation into the gendered informality and job search in the South African labour market*

The study was concerned with identifying gender differences in informal sector employment and job search in South Africa. The study identified several clear gaps or 'puzzles' from existing literature and outlines a clear contribution in this regard. These puzzles include the relatively small size of the South African informal sector amid high levels of open unemployment, a recent (since 2008) divergence in the gender composition of the informal sector and gender constraints in job search. The study identified several puzzles and demonstrates a clear command of the methods that are required to examine these puzzles.

**Supervisor:** Prof RP Burger

**MALINDI, Kholekile Nicholas** (Economics)

*An investigation of the labour market determinants of income dynamics for a highly unequal society: The South African case*

This study investigated a number of South African labour market themes, especially in under-researched but important areas such as matching, statistical discrimination and uncertainty about qualifications and experience. In addition to contributing to better understanding of these themes in the South African context, the study makes a number of methodological contributions that have not been undertaken on South African data. It adapted empirical methodologies that have been implemented in other countries to the South African context and did this in a structured and methodological manner. This study was not about inequality, but rather about mis- and missing measurement, either in proxies or for the productivity signals of individuals.

**Supervisor:** Prof RP Burger

**VILJOEN, Christie** (Economics)

*A new institutional economics (NIE) perspective on institutional change and leadership in Rwanda: From pre-history to post-genocide*

This study investigated how changes in key leadership institutions in Rwanda have shaped the dynamics in the country over time. The main contribution of the study relates to the effect that changes in political institutions have on economic transitions. The design of political institutions and others, such as the rule of law, therefore has an important impact on economic outcomes and how these are shared within a country. The study also raises questions for debate relevant to furthering discussion of transitional leadership, such as informality of institutions as well as trust.

**Supervisor:** Dr FK Siebrits

## ANDER KWALIFIKASIES | OTHER QUALIFICATIONS

### *Fakulteit Ekonomiese en Bestuurswetenskappe* *Faculty of Economic and Management Sciences*

#### **Magister in die Handelswetenskappe**

##### **Master of Commerce**

Anderson, Katelyn Ann (Business Management)  
Banda, Anna Manono (Industrial Psychology)  
Beccaro, Monique (Financial Risk Management)  
Boucher, Bradley (Economics)  
Delport, Casey (Agricultural Economics)  
Dikgale, Rarang Phillemon (Operations Research)  
Duke, Nicholas (Economics)  
Hanly, Amber May (Industrial Psychology)  
Hirst, Peter Alexander (Economics)  
Hugo, Monique-Mari (Financial Risk Management)  
Jacobs, Rochelle (Economics)  
Joubert, Narica (Industrial Psychology)  
Kenyon, Jacob Bradley (Statistics)  
Kotze, Dian Frederik (Economics)  
Kotze, Loamie (Mathematical Statistics)  
Mackenzie, Onesmo Kaiya (Economics)  
Maingard, Joanna (Industrial Psychology)  
Martin, Lisa-Cheree (Economics)  
Moliko, Ntsane Jeremia (Economics)  
Nel, Zander (Industrial Psychology)  
Ngalande, Timothy Alinafe (Economics)  
Pretorius, Jani (Mathematical Statistics)  
Prinsloo, Manie (Industrial Psychology)  
Ramsden, Kelly-Anne (Industrial Psychology)  
Selkirk, Rebecca Joy (Economics)  
Smith, Viwe (Economics)  
Staal, Blanche-Mari (Business Management)  
Stulumani, Agrippa (Statistics)  
Theron, Rachel Ilze (Economics)  
Van der Westhuizen, Amorei (Industrial Psychology)  
Van der Westhuizen, Jani (Industrial Psychology)  
Van Vuuren, Nadine (Computer Auditing)  
Van Zyl, Jo Bridget (Agricultural Economics)  
Venter, Jan Abraham (Industrial Psychology)  
Welz, Jason Morgan (Economics)  
Witten, Roslynne Ruth (Industrial Psychology)

#### **Magister in die Handelswetenskappe Cum Laude**

##### **Master of Commerce Cum Laude**

Buys, Helena Cornelia (Industrial Psychology)  
Edwardes, William Francis Ivor (Agricultural Economics)  
Falconer, Reid (Economics)  
Hamman, Michael Andries (Economics)  
Inglis, Jayme (Industrial Psychology)  
Marais, Jan Andre (Mathematical Statistics)  
Marais, Kurt (Operations Research)  
Melville, William George (Actuarial Science)  
Messina, Chesme Tessa (Operations Research)  
Minnie, Roan Johan (Economics)  
Mwale, Martin Limbikani (Economics)  
Nandago, Ruusa Nangula (Economics)

O'Keeffe, Georgina Alexis (Business Management)  
Ryke, Maria Elizabeth (Business Management)  
Singh, Kiran (Financial Risk Management)  
Smit, Henrietta Augusta (Industrial Psychology)  
Troost, Carina (Agricultural Economics)  
Van der Merwe, Schalk Gerhardus (Mathematical Statistics)  
Wessels, Annemie (Industrial Psychology)

#### **Magister in die Wysbegeerte**

##### **Master of Philosophy**

Chipeta, Niza (HIV/AIDS Management)  
Daniels, Jennifer (HIV/AIDS Management)  
Iyambo, Emma Nelago Marlon (HIV/AIDS Management)  
Kabongo, Elyse Panta Kamona (HIV/AIDS Management)  
Lefalatsa, Mmamakgala Sylvia (HIV/AIDS Management)  
Lolembo, Nyatembe (HIV/AIDS Management)  
Mabaso, Zanele (HIV/AIDS Management)  
Madzokere, Patsva Adelaide (HIV/AIDS Management)  
Mako, Tsepo (HIV/AIDS Management)  
Mandulo, Raymond Sizwe (HIV/AIDS Management)  
Mataranyika, Mary Nyaradzayi (HIV/AIDS Management)  
Maweni, Bridget Kholeka (HIV/AIDS Management)  
Mehlomakulu, Euphonia Nandipha (HIV/AIDS Management)  
Mguli, Mandumo (HIV/AIDS Management)  
Mlobane, Sakepi (HIV/AIDS Management)  
Mutetwa, Monica (HIV/AIDS Management)  
Ndebele, Siphathisiwe (HIV/AIDS Management)  
Ntoi, Refiloe Ma-Ntoi (HIV/AIDS Management)  
Penniken, Constance Victoria (HIV/AIDS Management)  
Tamen Nana, Juliane (HIV/AIDS Management)

#### **Magister in die Wysbegeerte Cum Laude**

##### **Master of Philosophy Cum Laude**

Strauss, Shireen Elna (HIV/AIDS Management)

#### **Honneurs-Baccalaureus in die Handelswetenskappe**

##### **Bachelor of Commerce Honours**

Antonie, Jonathan Kevin (Economics)  
Balone, Lintle (Economics)  
Bankart, Johanna Kathryn (Economics)  
Botma, Izabel (Industrial Psychology)  
Clark, Jason (Economics)  
Coetsee, Johannes Jacobus (Economics)  
Da Costa, Michelle (Industrial Psychology)  
De Ruyter, Anneke Marianne (Economics)  
De Villiers, Amber-Lee (Management Accounting)  
Erasmus, Remert (Economics)  
Fourie, Chad (Economics)  
Grant, Robert (Economics)  
Heslop, Tyra Marianne (Business Management: Financial Management)  
James, Liam (Economics)  
Karnasopoulos, Georgina Rita (Economics)  
Khitsane, Thekiso (Economics)

Lategan, Juan (Actuarial Science)  
 Laubscher, Schalk Jacobus (Management Accounting)  
 Lei, Lei (Management Accounting)  
 Lesenya, Ntai Victor (Economics)  
 Lord, Jason William (Economics)  
 Mann, Tasmyn Chealsey (Economics)  
 Martins, Leon (Economics)  
 Maselela, Mashoto Lucy (Operations Research)  
 Mathibe, Sefako Tlhologelo (Economics)  
 Millar, Jamie (Economics)  
 Motsoasele, Mpho Desmond (Economics)  
 Mpiwa, Thabang (Economics)  
 Olds, Timothy Alec (Economics)  
 Oosthuizen, Johannes Frederik (Management Accounting)  
 Pienaar, Willem Schalk (Economics)  
 Pretorius, Cindi (Economics)  
 Raath, Arno Phillip (Business Management)  
 Ravy, Siddharth (Logistics Management)  
 Raynard, Cindy (Management Accounting)  
 Robertson, Melani (Management Accounting)  
 Ryke, Jan-Hendrik (Management Accounting)  
 Skoric, Georgije (Economics)  
 Smit, Reinier (Economics)  
 Solomon, Tracey-Lee (Economics)  
 Swelindawo, Lunga (Economics)  
 Tilley, Clement Henry (Economics)  
 Tladi, Molapo Malebo Pheladi (Financial Analysis)  
 Touw, Johanin Malcolm (Management Accounting)  
 Vaalbank, Sandy-Ann (Management Accounting)  
 Van Eck, Petro (Economics and Mathematical Statistics)  
 Van Leeuwen, Rainer (Economics)  
 Van Rensburg, Nina (Financial Risk Management)  
 Venter, Salmon Pienaar (Management Accounting)  
 Vlok, Elri (Transport Economics)  
 Walker, Devon (Management Accounting)  
 Wang, Sitong (Financial Analysis)  
 Willemse, Adam Johannes (Actuarial Science)

**Honneurs-Baccalaureus in die Handelwetenskappe Cum Laude**  
**Bachelor of Commerce Honours Cum Laude**

Bridgman, Grace Margaret Mary (Economics)  
 Britz, Johannes Petrus (Financial Risk Management)  
 Coetzee, Euné Yvonne (Economics)  
 Köhler, Timothy Peter (Economics)  
 Luyt, Natalie Siobhan (Economics)  
 Meiring, Christiaan Jakobus (Economics)  
 Neethling, Chelna (Logistics Management)  
 O'Riordan, Alexander Charles (Economics)  
 Von Petersdorff, Clio Marianne (Economics)  
 Williams, Jordan (Logistics Management)

**Nagraadse Diploma in Bemarking**  
**Postgraduate Diploma in Marketing**

Hodges, Joshua Michael  
 Ruiters, Byron John  
 Vengadajellum, Tess Amber

**Nagraadse Diploma in Aktuariële Wetenskap**  
**Postgraduate Diploma in Actuarial Science**

Alant, Edward John Thomas  
 Greyling, Jaco  
 Hauptfleisch, Esti

**Baccalaureus in die Handelwetenskappe**  
**Bachelor of Commerce**

Adams, Kay Dee  
 Adjiet, Saarah  
 Agenbach, Evert Louis  
 Agiotis, Dillon Alan  
 Alderslade, James William  
 Alimohammadi, Shawn Shayan  
 Allan, Brogan  
 Alves, Justine Wade  
 Alves, Raquel Gomes  
 Anderson, Anuchka Shannon  
 Andrade, Michael Jardim  
 Asaro, Giovanni Lorenzo  
 Austen, Jenna-Claire Andrea  
 Baard, Charl  
 Baard, Kristoff  
 Bailey, Tatum  
 Bangaru, Thevin  
 Beck, Johannes Petrus  
 Becker, Frederick  
 Beukes, Storm  
 Beukes, Tyron  
 Beumer, Adriaan  
 Biggs, Daniel Colin  
 Biggs, Tristyn Lee  
 Billson, Natalie Jade  
 Binaris, Nicholas John  
 Birch, Andrew William  
 Blew, Jake Berrington  
 Bolus-Berkowitz, Hannah Frances  
 Bond, Cole  
 Boonzaaier, Logan  
 Booysen, Dalicia Terence  
 Bosman, Christal Jean  
 Bosman, Divan Anton  
 Botha, Anel  
 Botha, Danielle Louise  
 Botha, Hendrik Johannes  
 Botha, Marco  
 Boysie, Tandelwetu  
 Braaf, Leighton Kurtley  
 Briggs, Jason Grant  
 Brink, Mieke Anlé  
 Broughill-Dowling, Kelly-Anne  
 Brownlee, Kate  
 Buchner, Rebecca Lynn Helen  
 Burger, Jean-Pierre  
 Burger, Jonathan Martin  
 Burger, Stefan Albert  
 Cadle, Wesley Stewart  
 Caldeira, Raquel Gomes

Campbell, Brittany Chane  
 Campbell, Ross Spencer  
 Cantatore, Daniela  
 Carlisle, Nicholas Brian  
 Carmichael-Green, David Jason  
 Caroline, Michael Nicholas  
 Carstens, Jacobus Everhardus  
 Carstens, Roxanne  
 Charles, Emma  
 Chetty, Alex Cherie  
 Chikono, Ashley Sascha  
 Chinyadza, Takanzwa  
 Christodoulou, Peter Michael  
 Church, Megan Elizabeth  
 Cillie, Jacobus-Daniel  
 Cillié, Nina  
 Claassen, Bianca  
 Claassen, Johannes Theodorus  
 Clackworthy, Juan-Luke  
 Coertze, Roelof Dewald  
 Coetzee, Nuntty  
 Coetzer, James Jacques  
 Combrinck, Ruan Michael  
 Corney, Cameron Michael  
 Cronje, Andre Pierre  
 Daniel, Nico  
 Dawson, Jessica  
 De Bruyn, Juri  
 De Jongh, Dylan Dirk  
 De Kock, Jeané  
 De Nobrega, Hannah  
 De Villiers, Christiaan  
 De Villiers, Leonardene Robin Kaylin Camé  
 De Villiers, Marli  
 De Vries, Aulene Janine  
 De Wet, Louis Alwyn  
 Delekisa, Tshepo Herman  
 Diedericks, Zanré  
 Dijkstra, Alegra  
 Dilley, Aedan  
 Doel, Georgette Tara  
 Du Plessis, Jean-Prieur  
 Du Plooy, Jacobus Johannes  
 Du Toit, Charl Baard  
 Du Toit, Johannes Jacobus  
 Duvenhage, Leonard Herman  
 Earle, Andrew James  
 Edmonds, Holly Jane  
 Engelhard, Alexander  
 Erlank, Charlene Elizabeth  
 Erwee, Jurie Johannes  
 Fairbairn, Timothy Grant  
 Fechter, Ludwig Frederick  
 Ferreira, Kyle Frederik  
 Ferreira, Wallace  
 Fick, Lambert Hendrik  
 Finestone, Emma Vera  
 Formato, Alexis Michaela

Fouche, Jessica  
 Fraser-Valentine, James Robert  
 Fredericks, Rameez  
 Furstenberg, Wernich  
 Gangen, Kriya  
 Gaweda, Franciszek Marek  
 Gerber, Amy Jessica  
 Gildenhuys, Isolde  
 Glassock, Nicholas James  
 Gleeson, Jenna Catherine  
 Goldmann, Julian George  
 Goosen, Ruan Eben  
 Gounder, Nathan David  
 Greveling, Joslyn Ge  
 Hales, Lauren Jessica  
 Hardnick, Cheré Danielle  
 Harley, Jared Ethan  
 Harley, Sean Liam  
 Harvey, David Julian  
 Hayman, Alexander  
 Haynes, Francois Jean  
 Helberg, Come Jacob  
 Hemsley, James Robert  
 Henn, Caitlin  
 Henning, Danielle Elizabeth  
 Hoare, Nicholas Scott  
 Hoogwerf, Neal Rory  
 Horn, Christo Jason  
 Hough, Gustav Dewald  
 Hugo, Lise-Marie  
 Hugo, Melindi  
 Ives, Jeremy Geoffrey  
 James, Elrond Christian  
 Janse van Rensburg, Kyla  
 Janse van Vuuren, Stefan  
 Jansen van Vuuren, Lourens-Johan  
 Joubert, Tristan Lee  
 Kay-Hards, Stuart Michael  
 Kellerman, Lené  
 Kelly, Morgan Liam  
 Khoabane, Athenkosi Naledi  
 King, Matt  
 Kleynhans, Phia  
 Korff, Caylin Louise  
 Koster, Amy-Lee  
 Kriegisch, Dyllan Andreas  
 Krüger, Gabrielle  
 Krumböck, Sarah Louise  
 Lamprecht, Herculaas Cecil  
 Landsberg, Richard  
 Lang, Ryan  
 Lategan, Samantha Emma  
 Lawrance, Alexander Neville  
 Le Roux, Leande  
 Le Roux, Pienaar  
 Lee, Jade  
 Lefosa, Unarine Shonky  
 Leonard, Nelrie

Lesch, Luzaan  
 Leslie, Jaime  
 Lever, Richard Corley  
 Lewis, Tristan Callan  
 Liebenberg, Anel  
 Liebenberg, Kayla Jade  
 Linda, Palesa  
 Lloyd, Sarah  
 Lombard, Christoffel Benjamin  
 Lotter, Armand  
 Louw, Dewald Adriaan  
 Louw, Johan Marshall  
 Louw, Kayla  
 Loxton, Dylan James  
 Lunika, Lunga Lwando  
 Mabile, Anneline Wetsho Bonolo  
 Macfarlane, Camran Malcolm  
 Madonsela, Nelisiwe  
 Malan, Hercules Phillipus  
 Mambo, Patrick Taremekedzwa  
 Mangesi, Lindokuhle  
 Mangola, Chante Maxine  
 Marais, Jozua  
 Marais, Lee-Anne  
 Marais, Wihan  
 Marillier, Joel Morale  
 Mashitsho, Mathogonolo Timothy  
 Masiko, Lunakho  
 Matambo, Wadzanai Claudette  
 Matlala, Nano Paballo  
 Mauff, Daven Sebastian  
 Mbolekwana, Yolanda  
 Mbonane, Bonginhlhla Blessing  
 McWilliams, Joshua Ryan  
 Mnyulwa, Thamusanqa David Pike  
 Morgan, Keegan  
 Morgan, René  
 Mostert, Madri  
 Mouton, Helena  
 Mphahlele, Raisibe Anastasia  
 Mulckhuyse, Hannah  
 Mulder, Sudé  
 Muller, James Frederick  
 Muller, Johannes Wilhelmus  
 Murray, Donna Charlotte  
 Mutuma, Tagara George  
 Mzondo, Zintle Patience  
 Naicker, Theolin  
 Ndarimani, Annita  
 Neethling, Christiaan Ludolph  
 Nel, Gina  
 Nel, Jean Francois  
 Nel, Michiel Coenraad  
 Nell, Brendon Shane  
 Ngcawuzele, Qaqamba  
 Ngiba, Mandebe  
 Ngubane, Thanduxolo Mfundwenhle  
 Nijland, Scott

Nortje, Anya  
 November, Ghislaine Millicent  
 Olley, Amy-Faye  
 Oosthuizen, Cornelius Jacobus Le Roux  
 Osborn, Emma Jane  
 Parker, Lauren Kristin  
 Pastor, Andréa  
 Pearce, Baron Kent  
 Peddie, Kayla  
 Pendock, Bryce Fitzroy  
 Persence, Chadwick  
 Pharo, Jâde Elné  
 Pienaar, Eduan  
 Pieters, Francois William Joseph  
 Pieterse, Schalk Willem  
 Potgieter, Danielle  
 Potgieter, Johannes Marius  
 Price, Vernon Ewan  
 Prinsloo, Mieke  
 Randell, Charles Malcolm  
 Redelinghuys, Arend Johan Frederick  
 Redelinghuys, Jacques Lourens  
 Reeves, Ross Ian Puttenham  
 Retief, Hendrik Johannes  
 Reynolds, Kelli  
 Robinson, Brittany  
 Roseveare, Shannon Claire  
 Roux, Liesel  
 Ruiters, Junaid  
 Ruppert, Sven Karl  
 Rust, Ivo Christian  
 Sacco, Cay-Linn Hope  
 Schaefer, Heinrich Frederick Rudolph  
 Scheffer, Jade  
 Scholtz, Jenny  
 Scholtz, Kelly Roshen  
 Schultz, Louis Johann  
 Schutte, Arina  
 Seeparsad, Tanya Shah  
 Sibisi, Sonwabile  
 Sijula, Sinovuyo Zikhona Fair-Hope  
 Simpraga, Petar  
 Slabbert, Pieter  
 Small, David  
 Smith, Robyn  
 Smith, Sian Lee  
 Smuts, Lisa  
 Smuts, Marina  
 Snyders, Melissa Ashleigh  
 Snyman, Jansi  
 Sookdeo, Nikhil  
 Steenkamp, Micayla Keshia  
 Steere, Michael Andrew  
 Steyn, Brandon Kyle  
 Swanepoel, Cleo Andrea  
 Swanepoel, Rihaldo  
 Swart, Ethuan  
 Swart, Lana

Swart, Lizbe  
 Swart, Reinardt Frederik  
 Taljaard, Jana Helena  
 Taylor, Bryce Morgan  
 Terblanche, Jeandre Theo  
 Theron, Andre Luke  
 Theron, Come Dirk  
 Thiart, Nicola  
 Thomas, Jarrod Wade  
 Triefoff, Corin  
 Truter, Robin Nicole  
 Tumwizere, Levie Davis  
 Turnock, Shaylee Nicolle  
 Ullrich, Warwick David James  
 Van As, Johan Adam  
 Van Breda, Duhan Casper  
 Van der Horst, Megan Frances  
 Van der Merwe, Alwyn Johannes  
 Van der Merwe, Chante  
 Van der Merwe, Hendrik Petrus  
 Van der Merwe, Hendrik Petrus  
 Van Heerden, Jan-Hendrik  
 Van Horsten, Mickael Roger  
 Van Noort, Brandon Neil  
 Van Rensburg, Nora  
 Van Rooy, Camron Julio  
 Van Schoor, Kayla Megan  
 Van Schoor, Mieke  
 Van Waart, Christiaan  
 Van Wyk, Margaretha Elizabeth Carolina  
 Van Zyl, Anieke  
 Van Zyl, De Wet  
 Van Zyl, Jacobus Albertus  
 Van Zyl, Rocco Graham  
 Venter, Annemi Adri  
 Venter, Henning  
 Venter, Simon  
 Vezasie, Lisa José  
 Vilakazi, Bernard  
 Viveiros, Vicki Alexia  
 Voigt, Frederik Johannes  
 Weir, Mark Charles  
 Wentzel, Petrus Johannes  
 Wessels, Cara  
 Wicks, Kim Crystal  
 Widegger, Bradley Alfred  
 Williams, Ashleigh  
 Williams, Melissa Lee  
 Williams, Sean Robert  
 Wright, Matthew James  
 Wright, Sarah-Jane  
 Zoutendyk, Dylan

**Baccalaureus in die Handelwetenskappe Cum Laude**  
**Bachelor of Commerce Cum Laude**

Potgieter, Jessica Nicole  
 Smit, Joshua Nicholas  
 Swanepoel, Alicia  
 Terblanche, Timothy Jacques

**Nagraadse Diploma in MIV/VIGS-bestuur**  
**Postgraduate Diploma in HIV/AIDS Management**

Amalenge, Elly  
 Bisram, Rakesh Devanand  
 Bizo, Kanya  
 Boateng, Bridget Nomathamsanqa  
 Booysen, Miriam Felicia Naledi  
 Cele, Nokukhanya Prudence  
 Cele, Thabile Simangele Florence  
 Chachine, Shadia Muhamudo Gafur  
 Chateya, Brighton Tawedzerwa  
 Chesa, Novusimusi Pearl  
 Chipangura, Charllot  
 Chiya, Nomveliso  
 Djemba, Otshindo Laetitia  
 Dlakana, Nyameko Onke  
 Dube, Nompumelelo Fidelis  
 Eita, Foibe Ndayamena Popyeni  
 Gadzayi, Michelle Ruvimbo  
 Gadzayi, Prince  
 Gajudhur, Juyotee  
 Gawanas, Richel Lucie  
 Gumede, Zanele Elaine  
 Gwala, Noel Khethokwakhe  
 Gwala, Siyabonga Thulasizwe  
 Hamutenya, Selma  
 Ilunga, Kaumbu Papi  
 Ipinge, Ester Ndapewa  
 Jarana, Sphosethu  
 Jojozi, Nomahlubi  
 Jolingana, Nomava  
 Kabasso-Mwila, Priscilla  
 Kalenga, Nsenda Lyliane  
 Kalipa, Nomfundo  
 Kanangila, Kabongo Simon Piere  
 Kanhukamwe, Charity  
 Kanisa, Zukiswa  
 Kanyinda, Bitokwela Pierrot  
 Kapelwa, Audry Monde  
 Katsamba, Gerald  
 Kayofa, Salmi Itaveleni Twelikondjela  
 Kazadi, Mukadi  
 Kgaphola, Mmalefela Paulina  
 Khalo, Thabiso Enid  
 Khoza, Ntombikayise Ntombifuthi Cynthia  
 Khumalo, Phindile Simphiwe Gift  
 Khumalo, Sibongile Sinehlanhla  
 Khutshwane, Segomotso  
 Kiameso, Jolie Tunduluki  
 Kwashirayi, Calvin  
 Kweyama, Lungisile Bafunani  
 Leghman, Judy Miriam  
 Limbo, Calvin Nyika  
 Litoke, Happy Ndeba  
 Luboya, Betukumesu  
 Mac Kay, Joezette Helen  
 Machakaire, Tinashe Gerald  
 Machebe, Nimrod Thapelo

Magalakangqa, Thapelo Enoch  
 Majonga, Goden  
 Makwakwa, Siyabonga Gift  
 Maluleke, Katekani Walter  
 Mankantshu, Buncwanekazi  
 Manyadza, Chiedza  
 Mapotse, Paulinah  
 Masemola, Sekgawane Keletso Suzan  
 Masuku, Zandile Zamandwandwe  
 Masupha, Malehloa Frangelina  
 Matlokotsi, Mashea Jan  
 Matomela, Nomonde  
 Matsobe, Linda Tshireletso  
 Mavundza, Sikheto Nector  
 Mbambo, Euginia Ntombiningi  
 Mbisa, Marytheresa Anganile  
 Mboyi, Bulelwa Amorance  
 Mdedelwa, Lungisa Mdedelwa  
 Mdlazi, Namhla Andiswa Akhona  
 Mhango, Malizgani  
 Mlati, Vutivi  
 Moholi, Keletso Caroline Maboitumelo  
 Mokgatlhe, Bulele Martha  
 Mokhethi, Nqobile Penelope  
 Moloisi, Mashila Joel  
 Mophosho, Zanele Theresa  
 Morisho, Musongela Michel  
 Motaung, Lebohang Confidence  
 Mothibi, Kelebogile Mildred  
 Motlalane, Thato Violet  
 Moyo, Enos  
 Mphato, Nthabiseng  
 Mpiana, Kabongo Mack  
 Mpolokeng, Tshegofatso  
 Mtshali, Bongwiwe  
 Muchinga, Sungano Prisca  
 Mudadi, Leon-Say  
 Mumanyi, Pedetsiana Mapfumo  
 Mumbala, Tuuliki Ndagwana  
 Mvelase, Sphindile Patience  
 Mxoli, Nonkqubela  
 Mzanywa, Nomlindo  
 Nabela, Nomfundo Mtunzikazi  
 Naimbale, Hilma Niitembu  
 Nala, Thabane  
 Namane, Peter  
 Ndaba, Nomsa Sheron  
 Ndala, Jeremie Thusal  
 Ndawula, Samuel  
 Nekongo, Irja Ndesihala  
 Nel, Elizabeth  
 Ngcezula, Vuyelwa Jeanette  
 Ngcobo, Nomusa Yvonne  
 Ngubane, Duduzile Doris  
 Ngwenya, Zodwa Revival  
 Ngxingo, Nolusindiso Octavia  
 Nkwanyana, Nompumelelo Duduzile  
 Norbert, Selestine

Opuoro, Oromofuru Benedict  
 Pienaar, Luchmi Cleo  
 Pienaar, Ralda Marylene  
 Prince, Olivia Christine  
 Qoboshiyana, Loyiso  
 Rabele, Lirontso Margaret  
 Raesi, Mpho Shakes  
 Ralebona, Moyahavho Evelyn  
 Ramaru, Shede Ramaru  
 Ramashala, Clarah  
 Ramatswi, Jane Maria  
 Reid, William  
 Ruwanza, Juliet Vongai  
 Sakuneka, Colben Siphon  
 Sebate, Dikeledi Mitta  
 Sebogodi, Mildred Ramaisela  
 Seetsi, Mampoi Elizabeth  
 Segwaba, Pulane Bridgette  
 Sekoati, Keamohetsoe Florence  
 Seliane, Puseletso Eugenia  
 Semono, Kgabo Yolanda  
 Sepheka, Molefi France  
 Serame, Keitumetse  
 Shikongo, Hilda Namwenyo Tonateni  
 Shikongo, Veronika Kaunapawa  
 Sibanda, Khethukuthula  
 Sibango, Zikhona  
 Simango, Olivia  
 Strauss, Aidan Blaine  
 Tebelelo, Patrick  
 Tererai, Esther  
 Thibinyane, Puseletso  
 Tongowona, Lydia  
 Totwe, Virginia  
 Tseane, Matseliso Rebecca  
 Tsemane, Lerato  
 Tshifuta, Nombasa  
 Tyutyani, Nolubabalo Letitia  
 Uugwanga, Iyaloo Tulonga  
 Uupindi, Ndapandula Ndinelao  
 Wa Mutanda, Mutanda  
 Watetepa, Evelyn  
 Weyer, Lance Christopher  
 Wilson, Susan Margaret

**Nagraadse Diploma in MIV/VIGS-bestuur *Cum Laude***  
**Postgraduate Diploma in HIV/AIDS Management *Cum Laude***

Barnard, Pharesha Goschelle  
 Billah, Idel Tokozani  
 Kehrhahn, Ferdinand Heinrich Hermann  
 Kruger, Andreas Cornelis  
 Mmotsa, Tshiamo Moshading  
 Motlhaedi, Gaolatlhe





2

4 April 2019

17:00

**Fakulteit**

*Lettere en Sociale Wetenschappen*

*Uitsluitend BA (Regisgeleerdheid)*

**Faculty**

*Arts and Social Sciences*

*Excluding BA (Law)*



# 2

## PROGRAM

- |                        |   |
|------------------------|---|
| <i>Staan asseblief</i> | 1. Akademiese prosesie kom die saal binne.  |
| <i>Staan asseblief</i> | 2. Sing van die Nasionale Lied (sien binnekant van die agterblad).  |
| <i>Sit asseblief</i>   | 3. Konstituering deur die Visekanselier.  |
|                        | 4. Verwelkoming deur die Visekanselier.   |
|                        | 5. Verwelkoming in Xhosa.   |
|                        | 6. Voorstelling van kandidate wat kwalifikasies ontvang deur die dekaan van die fakulteit en toekenning van kwalifikasies deur die Visekanselier. |
|                        | 7. Sluiting deur die Visekanselier.   |
| <i>Staan asseblief</i> | 8. 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-Chancellor.   |
|                     | 4. Welcome by the Vice-Chancellor.   |
|                     | 5. Welcome in Xhosa.   |
|                     | 6. Presentation of candidates receiving qualifications by the dean of the faculty and conferment of qualifications by the Vice-Chancellor. |
|                     | 7. Closing by the Vice-Chancellor.   |
| <i>Stand please</i> | 8. The academic procession leaves the stage.   |

## Doktor in die Wysbegeerte Doctor of Philosophy

**ALBIEN, Anouk Jasmine (Psychology)**

*A mixed-methods analysis of black adolescents' vocational identity status and career adaptability competencies in a South African township*

This multi-phase mixed-method study explored how career adaptability and vocational identity constructs could manifest differently in a non-Western and developing world context, such as in the Kayamandi township in South Africa. A culturally relevant career intervention was collaboratively created and piloted. The final implementation included 582 Grade 10, 11 and 12 isiXhosa-speaking students. In the final intervention, a repeated-measures research design was utilised and scores were tracked at four time points over four weeks and included two pre-assessments and two post-assessments. The effectiveness of the intervention was confirmed using written reflection and focus group feedback.

**Supervisor:** Prof AV Naidoo

**BASSON, Isabel (Science and Technology Studies)**

*An investigation of open-access citation advantage through multiple measures and across subject areas for articles published from 2005 to 2014*

One of the proposed benefits of open-access practices is that the increased visibility it provides leads to open-access publications receiving more citations than non-open-access publications. This study investigated the veracity of this claim by analysing all articles and reviews published between 2005 and 2014 and indexed in the Clarivate Analytics Web of Science. Three different measurements of citation advantage were examined, which determined that access status accounts for little of the variability in the number of citations articles receive. It is therefore misleading to claim that publishing in an open-access journal will necessarily lead to a citation advantage.

**Supervisor:** Prof HE Prozesky

**Co-supervisors:** Prof J Mouton, Dr JP Blanckenberg

**BEHR, Annemie (Music)**

*Constructing history from music reportage: Jewish musical life in South Africa, 1930–1948*

Secondary literatures cast Jewish cultural life in South Africa as English in form and Jewish in spirit. This study drew on socio-musical sources not yet introduced to general historiographies to question this construction of Jewish identity. These sources refer to music-related items that appear in the *South African Jewish Chronicle* and the *Zionist Record* newspaper publications of 1930–1948. Subjecting music reportage in local Jewish newspapers to a rigorous content analysis opens understandings of Jewish culture in South Africa from wider, cosmopolitan perspectives and locates the function that music might have had in cultural processes of identity formation.

**Supervisor:** Prof SJvZ Muller

**CONRADIE, Annemi (Visual Arts)**

*Africa-Lite: Cultural appropriation and commodification of historic blackness in post-apartheid fabric and décor design*

This study examined the appropriation of colonial images of black bodies for commodification in 21st-century South African décor and fabric design. The repurposing and commodification of archival photographs and their circulation within local and global image economies are prominent in contemporary design. This study explored the various aesthetic and discursive devices through which images of black bodies from South Africa's pre-democratic past are assimilated for consumption within retail, leisure and domestic spheres. In proposing a critical humanist and black existentialist approach to cultural appropriation, colonial representations are rethought as sites of ongoing struggle for recognition, restitution and liberation.

**Supervisor:** Prof L van Robbroeck

**CORNELISSEN, Laurenz Aldu**

**(Decision-making and Knowledge Dynamics)**

*Social network cognition: An empirical investigation of network accuracy and social position*

People are extraordinarily social beings. However, under scrutiny, we are frequently inaccurate about important social relations in our social networks. Some individuals still manage to accurately recall their social networks. This study proposes that these accurate network perceptions are key to an individual's ability to find beneficial social positions in a network. Using data from three organisations, the study is empirically supported. This contributes to prevailing thought by shifting the focus away from attributing social position as the reason why individuals are accurate. Socially intelligent individuals are therefore capable of harvesting their own agency in a complex social structure.

**Supervisor:** Prof BW Watson

**CORNELISSEN-NORDIEN, Tasneemah (Social Work)**

*Empowerment services for sexually abused children offered by non-profit organisations in the Western Cape*

This study engaged with the widespread problem of child sexual abuse in South Africa. The study explored and closely examined how existing government policies and legislation inform and structure empowerment services for child sexual abuse offered by non-profit organisations within the context of an ecological perspective. The findings revealed that service providers are extremely hard put to implement government policies and legislation in practice. The study cogently recommends improved collaboration between government and non-profit organisations that enables service providers to offer high-quality empowerment services to address child sexual abuse effectively in line with existing policies and legislation.

**Supervisor:** Prof S Green

**ELEMA, Nico Michiel (Science and Technology Studies)*****The contribution of the Water Research Fund for Southern Africa (WARFSA) to knowledge production and policy in the SADC water sector***

Applying a mixed-methods approach, various aspects relating to water research and its policy uptake in the SADC region were investigated. Bibliometrics were used to analyse the citation impact of these between 1980 and 2016 as well the knowledge produced from projects funded through the Water Research Fund for Southern Africa. The study highlights the gap between the research community and policymakers, the mixed involvement of practitioners and policymakers in the research projects and the positive role of intermediaries and knowledge brokers in these projects. Finally, the study highlights the challenges in attributing research findings to policy relevance.

**Supervisor:** Prof J Mouton  
**Co-supervisor:** Prof TE Cloete

**EWUOSO, Cornelius Olukunle (Applied Ethics)*****Information management in physician–patient interactions: Towards a new approach***

Unsolicited information raises unique challenges for health professionals in the clinical context. Withholding information accidentally discovered in a clinical encounter may be seen by the patient as a violation of his/her right to know, while disclosure when a patient has not requested such information may be experienced as invasive. This study argues that African moral theory contains an underappreciated value for addressing such ethical challenges and proposes guidelines, rooted in a combination of *ubuntu* and the Yoruba concept of *ootò*, that can be of assistance in addressing ethical challenges regarding unsolicited information in a variety of clinical contexts.

**Supervisor:** Dr SLC Hall

**GRANMO, Anders (Political Science)*****Health norms in the global governance of development: A constructivist analysis***

The politics of health is increasingly relevant to global governance and a sustainable future. This study identified, described and explained the emergence of health norms in contemporary global development discourse and governance. Using the case studies of the Millennium and the Sustainable Development Goals, the study found that the relevant norms have emerged, suffused and subsequently became internalised through the various direct and indirect negotiation processes that created the policies formalised as global development goals. The importance of effective norm entrepreneurs and their ability to champion norm innovation proved essential, particularly when further bolstered by traditional concerns of high politics.

**Supervisor:** Prof PP Fourie

**LINCOLN, Lawrence Ronald (Ancient Cultures)*****A thematic study of doctrines on death and the afterlife according to Targum Qohelet***

This study examined how the Targum radically transformed Qohelet's pessimistic, secular and cynical views on the human condition by introducing a composite rabbinical theology throughout the Aramaic translation with the purpose of refuting the futility of human existence and the finality of death. The personal observations of Qohelet was overturned and a practical guide for the living according to the principles of rabbinic theological principles was formulated. While BibQoh provided few solutions for the pitfalls and challenges of life and lacked any clear references to an eschatology, the Targum promoted the promise of everlasting life as a model for a beatific eschatological future.

**Supervisor:** Prof J Cook

**LYAKURWA, Michael Felisian (Applied Ethics)*****Towards an approach to environmental ethics responsive to environmental challenges on the slopes of Mount Kilimanjaro***

After demonstrating why some Western approaches to environmental ethics as well as certain efforts to base an indigenous environmental ethics on traditional African values fall short when called upon to provide guidance on how to resolve the environmental challenges experienced daily by people living on the slopes of Mount Kilimanjaro, environmental pragmatism and the philosophy of adaptive management, supported by a case study, were used to propose context-specific strategies to develop a process ethics by which full involvement of stakeholders, a sense of pride and ownership of the Mountain and its forests and sense of place values could be restored.

**Supervisor:** Prof JP Hattingh  
**Co-supervisor:** Late Prof SK Hellsten

**MAASDORP, Christiaan Hendrik (Socio-Informatics)*****Narrativity and organisation: An investigation in sense-making theory***

Organisational sense-making theory is an influential approach to organisational cognition and decision making, focusing on cognitive framing actions that attempt to order the flow of experience in service of organisational coherence. The study investigated this theory from the perspective of philosophical hermeneutics and found that the theory's roots in social psychology and interpretivist sociology restrict its usefulness with regard to organisational cognition. Drawing on the philosophy of Hans-Georg Gadamer, in conjunction with Paul Ricoeur's hermeneutics, in particular the triple mimetic function of narrative, an enhanced model of organisational sense making, where narrative refiguration is a constitutive element alongside enactment, is offered.

**Supervisor:** Prof J Kinghorn

**MAKANJILA, Dominick Dunford (African Languages)*****Internal syntax of the Chimakonde determiner phrase***

This study on the determiner phrase in Chimakonde investigated key areas of the syntax of this African language, spoken in southern Tanzania. It is argued that articles such as 'the' and 'a' in English are not the only forms through which the functional category determiner can manifest. The category determiner is generally viewed as the locus of (in)definiteness and (non-)specificity. The main question the study investigated was how the functional category determiner is realised morphosyntactically in Chimakonde. For this purpose, the interpretation of the determiner phrase when a nominal modifier occurs prenominally and postnominally was examined. The study demonstrates that Chimakonde provides evidence for positing the functional determiner in the form of the core demonstrative roots. Considering the interpretations of the demonstrative root that obtain in prenominal position, it is postulated that the demonstrative root bears the added specificity and contrasted focus feature, thereby instantiating the functional category determiner.

**Supervisor:** Prof MW Visser

**MWOMBEKI, Gaspardus Gastus (African Languages)*****Strategic manoeuvring in the 2015 Tanzanian presidential election campaign speeches: A pragma-dialectical perspective***

The study investigated strategic manoeuvring in the 2015 Tanzanian presidential campaign speeches in the extended pragma-dialectical theory of argumentation. It employed the pragma-dialectical theory to analyse two inaugural speeches of the presidential campaign conducted in Kiswahili. The study evaluated structures, schemes, presentational devices, successful observation of rules, identification of derailments of rules and effectiveness and reasonableness in the political argumentative discourse. The findings from the study demonstrate that the three argumentation schemes, that is the casual relation argumentation scheme, symptomatic argumentation scheme and argumentation by analogy, are employed in the speeches. The three aspects of strategic manoeuvring, the topical potential, audience demand and presentational devices are employed accordingly.

**Supervisor:** Prof MW Visser

**OJIAMBO, Jacqueline Kubasu (English Studies)*****Films by Kenyan women directors as national allegories***

This study examined how selected Kenyan fiction films directed by women intervene in national politics. These films were read allegorically, drawing on both Frederic Jameson's controversial concept of national allegory and local traditions of allegory as a complex didactic form to analyse how, within the context of the Kenyan political situation, the private stories of individuals might refer beyond their immediate circumstances to wider political concerns. By reflecting on issues such as the conditions of the marginalised in society, gender roles, poor governance and traumatic national events, the filmmakers transcend their present realities to imagine a more desirable nation.

**Supervisor:** Prof LA Green  
**Co-supervisor:** Dr DW de Villiers

**SMIT, Lizelle (English Studies)*****South African female subjectivity (1868–1977): Life writing, the agentive 'I' and recovering stories***

Largely an archival research project, this study makes an original contribution to the field of women's life writing studies. It explores how female subjectivity is formed in the different life writing forms – private and/or public – penned by three South African women between 1868 and 1977. The study theorises, for example, the construction of a lesbian discourse in the late 19th and early 20th century in Betty Molteno's writing; examines the impact of Afrikaner nationalist politics on subject formation and artistic expression in Hettie Smit's creative and private writing; and interprets gender, political and textual paradoxes embedded in Joyce Waring's three autobiographies.

**Supervisor:** Dr M Slabbert  
**Co-supervisor:** Prof L Viljoen

**STOFBERG, Jacques Francois (Science and Technology Studies)*****Commercialising intellectual property emanating from universities in the Western Cape, South Africa***

The purpose of this study was to gain a better understanding of the concept of intellectual property and the importance of its effective commercialisation for South African universities. The study was conducted at four universities: Stellenbosch University, the University of Cape Town, the University of the Western Cape and the Cape Peninsula University of Technology. It emerged from the study that university technology transfer is a multifaceted process and that its success depends on high-level university commitment and leadership, efficient commercialisation management and – most importantly – significant annual research and development spending. The study found that without significant quality and quantity of research and development being conducted, little or no revenue streams can be expected from new inventions emanating from South African universities.

**Supervisor:** Prof J Mouton

**TOGOLO, Jean Pierre (Sociology)*****Yaounde après l'indépendance: Les changements migratoires dans le processus d'urbanisation d'une ville capitale 1960–2010 (Shifts in urbanisation streams toward the capital city of Cameroon, Yaoundé, after independence)***

Internal migration towards capital cities in Africa has been vigorous and sustained over the past 50 years. Typically, explanations have used economic factors as primary drivers. In the case of the capital city of Cameroon, this study researched the role that three postcolonial regimes have played in this regard. In particular, the specific roles of nation-building interventions by national governments in Yaoundé were identified as relevant factors. The study also refutes the hypothesis of ethnic neopatrimonialism – that is, the superior flow of members of the president's ethnic group to the capital during his tenure – in the case of Cameroon.

**Supervisor:** Prof SB Bekker  
**Co-supervisor:** Prof PB Essomba

**VAN LILL, Milandr  Heidi (Science and Technology Studies)**

*A study of the doctoral pipeline: Time to degree in selected disciplines at South African universities*

This is the first comprehensive study in South Africa that studied the factors that predict time to degree in the disciplines of physics, education, sociology, engineering and clinical health sciences. The study found that multiple factors, including the students' mode of enrolment and nationality, impacted significantly on time to degree. Surprisingly, gender was not found to be a significant variable, but the main hypothesis of the study, viz. that the academic discipline is an important predictor of time to degree, was confirmed. This finding has major implications for university strategies when supporting doctoral candidates across different disciplines.

**Supervisor:** Prof J Mouton

**VAN SCHALKWYK, Fran ois Barend  
(Science and Technology Studies)**

*New potentials in the communication of open science with non-scientific publics: The case of the anti-vaccination movement*

This study examined direct access to the communications of open science by non-scientists. The findings showed that online social networks allow the anti-vaccination movement to amplify its minority position by being selective in terms of the vaccine science it feeds into its online communication networks and by being highly active without engaging closely with the scientific knowledge at its disposal. The use of the anti-vaccination movement of open-access journal articles in its online communications leads to the amplification of uncertainty regarding the safety of vaccinations. The study demonstrates the need to develop counter-strategies on the part of science communicators.

**Supervisor:** Prof PHM Weingart  
**Co-supervisor:** Prof J Muller

**VAN SCHALKWYK, Mar  th (Drama and Theatre Studies)**

*Assessing change: Investigating evaluation practices in applied theatre*

This study investigated the problematic nature of assessing and evaluating change brought about by applied theatre programmes. These programmes often lay claim to successful behaviour and social change, proclamations frequently made without valid assessment and evaluation practices and as such subject to scepticism. This literature and empirical study found that a shift needs to be made away from attempts to instigate change to encouraging efficacy. Programmes should employ tailor-made evaluation methodology and to this end practitioners should acquire the necessary skills and knowledge to use different assessment and evaluation components and techniques creatively. An evaluation toolkit is suggested.

**Supervisor:** Dr MH Pretorius

**WOOD, Elmien (Geschiedenis)**

*'n Genealogiese analise van 'n enkele familie as verteenwoordiging van 'n kultuurgroep: 'n Onderzoek na nuwe perspektiewe*

Genealogie word dikwels deur leke as 'n stokperdjie beskou, maar in werklikheid is dit 'n uiters komplekse dissipline wat 'n sinergie van verskillende navorsingsmetodes verg. Die navorsingsmetodologie wat vir hierdie studie gevolg is, het inderdaad nuwe perspektiewe op genealogie tot gevolg gehad. Indringende ondersoeke na huweliks- en ander verbintenisse in die 18de-eeuse samelewing aan die Kaap het gelei tot die ontdekking en blootlegging van tot nog toe onbekende feite oor sosiale verskynsels van die tyd. Faktore wat bydra tot die vorming van 'n nuwe samelewing in 'n koloniale gebied en wat voorheen nog nie diepgaande ondersoek is nie is in hierdie studie verreken.

**Promotor:** Prof M Burden  
**Medepromotor:** Dr HF Heese

**YAMUNGU, Nestory Erasto  
(Geography and Environmental Studies)**

*Street-level bureaucrats and piecemeal planning approaches in the Tanzanian small towns of Mlandizi and Sirari*

Layout plans have been used throughout the planning history of Tanzania to guide spatial development. The study investigated how local realities have influenced the adoption of piecemeal urban planning in two small towns, Mlandizi and Sirari. The study showed how town planners, as street-level bureaucrats, are forced to adopt piecemeal planning approaches. This practice has been influenced by several multifaceted local realities such as the need for controlling the rapid development of informal settlements, the lack of institutional planning capacities, the local political climate and the role of the private sector in urban planning and development.

**Supervisor:** Prof SE Donaldson  
**Co-supervisor:** Dr MA Spocter



## ANDER KWALIFIKASIES | OTHER QUALIFICATIONS

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

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

Bernhardt, Lara (English Studies)  
Botha, Jeanine (Psychology)  
Bradshaw, Melissa Elizabeth (Psychology)  
Bridger, Nicole (Political Science)  
Broders, Linda-Vanessa Sabine (General Linguistics)  
Bruns, Nicola Jo (Journalism)  
Coetzee, Jodi Anne (Political Science)  
Coetzee, Sarah-Jane (Intercultural Communication)  
De Clerk, Carla Christina (Psychology)  
Demetriou, Salome (Psychology)  
Dyubeni, Fezeka Alicia (African Languages)  
Frenz, Vincent (Socio-Informatics)  
Gagiano, Vicki (English Studies)  
Goosen, Jeslyn Chrismare (Psychology)  
Grammer, Hayley Dallas (Journalism)  
Grobelaar-Lenoble, Irene (Visual Studies)  
Grotzinger, Elsabe (Clinical Psychology and Community Counselling)  
Jonas, Zikhona (Psychology)  
Kippie, Chamdré Emma (Visual Studies)  
Lesch, Laurian Teslyne (African Languages)  
Lochner, Nicole Jean (General Linguistics)  
Martin, Melissa Josine (General Linguistics)  
Mistry, Anjali (Geography and Environmental Studies A)  
Mudde, Storm (Journalism)  
Ncombo, Yandisa Wiseman (International Studies)  
Ncube, Nesisa Amanda (Political Science)  
Nel, Alma (Drama and Theatre Studies)  
Nel, Isabel Gretha (Political Science)  
Omeje, Chikezie Humphrey (Journalism)  
Pohl, Susanna Maria (Psychology)  
Roman, Samantha (General Linguistics)  
Swinny, Claudia Arlene (Psychology)  
Toi, Jerall (Socio-Informatics)  
Tshaka, Thembakazi Kim (African Languages)  
Van Schalkwyk, Lorenzo (German)  
Van Wyk, Ockert Jacobus (Drama and Theatre Studies)  
Van Zuydam, Eleanor (Journalism)  
Van Zyl-Bekker, Susanna Magdalena (Translation)  
Vena, Vuyiswa Yolanda (Journalism)  
Wilkinson, Laura Gery (General Linguistics)  
Wilson, Gillian Anthea (German)

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

Boshoff, Lucia Lilleen (Visual Studies)  
Conradie, Sias Vincent (History)  
Croeser, Chantelle Claire (English Studies)  
Duke, Belinda Sheryn (Ancient Cultures)  
Groenewald, Bea (General Linguistics)  
Groenewald, Karin (German)  
Joubert, Karien (History)  
Kamanga, Elina (Psychology)

Naudé, Hendrik Eduan (Translation)  
Pschorn, Nina Maria (Philosophy)  
Sanders, Michelle Sharon (Ancient Cultures)  
Thamm, Eva (German)  
Theron, Lize-Mari (Lexicography)  
Van Deventer, Maria Christina (English Studies)  
Vermaak, Janet (Afrikaans and Dutch)  
Vorndran, Truchen (English Studies)  
Zimmermann, Dana (German)

#### **Magister in die Wysbegeerte** **Master of Philosophy**

Chimatira, Andrew (Monitoring and Evaluation Methods)  
Chuene, Mmapitsi Advice (Urban and Regional Science)  
Heyl, Ansa (Science and Technology Studies)  
Hoepfl, Kim Powell (Applied Ethics)  
Horwitz, Jocelyn (Applied Ethics)  
Hove, Darlington (Information and Knowledge Management)  
Jivan, Dionne Chelese (Transdisciplinary Health and Development Studies)  
Kayamba, Moses (Information and Knowledge Management)  
Lendrum, Derryn Addie (Disaster Risk Science and Development)  
Leoschut, Lezanne Claudine (Monitoring and Evaluation Methods)  
Lepelle, Mankgele Joshua (Urban and Regional Science)  
Letlape, Segametsi Virginia (Urban and Regional Science)  
Logah, Courage Julius (Science and Technology Studies)  
Madaka, Nosisa Cynthia (Applied Ethics)  
Mange, Thabile Bethuel (Information and Knowledge Management)  
Manjoro, Cynthia Fungai (Monitoring and Evaluation Methods)  
Manuel, Rustum (Applied Ethics)  
Maringa, Tirhani Lucky (Urban and Regional Science)  
Masondo, Eric Mduduzi (Monitoring and Evaluation Methods)  
Matibidi, Mafora Cassious (Information and Knowledge Management)  
Mkhize, Mbhekiseni (Information and Knowledge Management)  
Moll, John Kieren Quarry (Information and Knowledge Management)  
Mulibana, Pinki Lorraine (Urban and Regional Science)  
Nyathi, Nqabutho (Monitoring and Evaluation Methods)  
Pitso, Palesa (Monitoring and Evaluation Methods)  
Qonono, Kwanele (Disaster Risk Science and Development)  
Rammuki, Paulos Matlhomola (Urban and Regional Science)  
Shongwe, Leroy Mxolisi Ndikane (Monitoring and Evaluation Methods)  
Silubonde, Tikwiza Rayleen (Monitoring and Evaluation Methods)  
Takaedza, Innocent (Monitoring and Evaluation Methods)  
Tshililo, Ntakadzeni Andrew (Urban and Regional Science)

#### **Magister in die Wysbegeerte Cum Laude** **Master of Philosophy Cum Laude**

Albertyn, Charl Hofmeyr (Science and Technology Studies)  
Beuster, Lukas Robin Nigel (Urban and Regional Science)  
Douglas, Tania (Applied Ethics)  
Hazell, Eleanor Louise Kathryn (Monitoring and Evaluation Methods)  
Makhubu, Samkeliso Siphephelo (Urban and Regional Science)  
Marais, Andries Francois (Applied Ethics)  
Smit, Arnoldus Tobias (Applied Ethics)



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

De Wet, Leane Nicola (Urban and Regional Planning)  
Duckitt, Henry Charles (Urban and Regional Planning)  
Kisting, Denè (Urban and Regional Planning)  
Mbatha, Lethiwe Slindi (Urban and Regional Planning)

**Magister in Maatskaplike Werk**  
**Master of Social Work**

Jacobs, Tasneem (Social Work)  
Mwoyounazvo, Netsayi (Social Work)

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

Coetzer, Johannes Stephanus  
De Koker, Jessica  
Kritzinger, Xander  
Labuschagne, Marise  
Müller, Kelsey Kylie  
O'Neill, Jenna Rae

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

Adams, Kirsten Nicole  
Nell, Michelle  
Stead, Matthew Corbin

**Magister in die Lettere en Wysbegeerte in Visuele Kunste**  
**Master of Arts in Visual Arts**

Van Schalkwyk, Jacob Petrus  
Viviers, Marita

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

Hunter, Katherine  
Sennett, Ruben  
Van Niekerk, Lani

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

Bafana, Busani  
Kanotangudza, Gift  
Smith, Henkdrik Johannes

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

Makuni, Milner Maluza  
Ramdeyal, Pradesh Krishanlal

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

Armstrong, Stephanie-Lee (International Studies)  
Bal, Mishka Evelyn (General Linguistics)  
Ballack, Callen May (Journalism)  
Baloyi, Baseki Portia (Ancient Languages)  
Beasley, Melissa Loren (Social Anthropology)  
Beck, Bianca Lee Lockhart (Visual Studies)

Bestbier, Grethe Petro (Journalism)  
Blades, Sabrina Ann (Chinese)  
Blevi, Cecilia Margaretha (Visual Studies)  
Blignaut, Caira Alexa (Journalism)  
Booi, Maria (Sociology)  
Boonzaier, Anja (Philosophy)  
Boshoff, Sinead Madelyn (Psychology)  
Botha, Igna (Afrikaans and Dutch)  
Bull, Fauzia (Drama and Theatre Studies)  
Burger, Danea Leanda (Ancient Cultures)  
Burger, Leandri (Psychology)  
Buys, Kasper Stefanus (Ancient Cultures)  
Campher, Menina (Social Anthropology)  
Ceasar, Westley Grant (Psychology)  
Cloete, Alida (Afrikaans and Dutch)  
Cloete, Anthea Paulette (German)  
Coetzee, Charlotte (Psychology)  
Croeser, Johmine (Translation)  
Cupido, Robyne Courteney (Psychology)  
Davidson, Michael John (Journalism)  
Delport, Casey (Journalism)  
Dold, Lauren (Journalism)  
Du Plessis, Joshua Daniel (Journalism)  
Dyasi, Thembelihle (Psychology)  
Eltringham, Paula (Sociology)  
Essop, Nuraan (Ancient Cultures)  
Filander, Willdon John-Lee (Psychology)  
Groeneveld, Elise (French)  
Gumede, Snothile (Visual Studies)  
Haller, Tamara Ingrid (Visual Studies)  
Hempel, Sasha-Lee (Translation)  
Human, Emrie (Afrikaans and Dutch)  
Johnson, Aimee (Psychology)  
Kao, Shih-Chien (Sociology)  
Kelepile, Tshepo Kelebile (Psychology)  
Le Roux, Zanro (Chinese)  
Loots, Chame (Ancient Cultures)  
Matthysen, Darryn Wayne (International Studies)  
Mbatyoti, Nombasa (Psychology)  
Michaels, Ross (Journalism)  
Mockey, Danielle Leigh (Translation)  
Modjadji, Kadzamira (Journalism)  
Moerat, Nuraan (Visual Studies)  
Mokonyana, Teboho Phillip (Journalism)  
Moodley, Michaela Chloe (Psychology)  
Mostert, Chene (International Studies)  
Musson, Joshua Ashley (Sociology)  
Nefdt, Jana Andrea (Ancient Cultures)  
Ngetich, Stacy Tracy Cherono (Psychology)  
Nicholls, Adara Brynne (Social Anthropology)  
Nortier, Heste (Translation)  
Perold, Liza (International Studies)  
Philander, Judy (Journalism)  
Potgieter, Annemarie Reinet (Chinese)  
Potgieter, Nanine (Ancient Cultures)  
Prinsloo, Megan (Translation)  
Prowse, Kathleen Lilly (Psychology)  
Rheeder, Jonathan (Social Anthropology)

Rossouw, Jean (Ancient Cultures)  
 Ruiters, Amy (Psychology)  
 Ryall, Jeremy Stuart (Journalism)  
 Schroeder, Zara (Sociology)  
 Schumann, Wilhelm Peter (Journalism)  
 Shapcott, Bonnie Cape (Chinese)  
 Sharpley, Kristan Ashleigh (History)  
 Sibanda, Alundrah Martina-Ann Dadirai (Journalism)  
 Smith, Hendrina Maria (History)  
 Somdya, Kamva (Journalism)  
 Steenkamp, Hermique Jeneal (Social Anthropology)  
 Tarr, Kyra Hannah (Journalism)  
 Taylor, Jody-Lynn Amber Nashrine (Journalism)  
 Thetard, Gunter Friedrich Wilhelm (Philosophy)  
 Thomas, Lauren (Geography and Environmental Studies)  
 Toi, Cassey Alexandre (Visual Studies)  
 Turner, Kelly (Journalism)  
 Uys, Andre (History)  
 Van der Hoven, Rese Kenau (Afrikaans and Dutch)  
 Van Zyl, Ané (Journalism)  
 Veeriah, Kerina (Sociology)  
 Veldsman, Marishan Cary (Afrikaans and Dutch)  
 Verolini-Wright, Giorgia Helena (International Studies)  
 Wentzel, Jana (Journalism)  
 Weppelman, Kaylon Jasmine (Psychology)  
 Wertheim Aymes, Ingrid Christine (Sociology)  
 Williams, Bonita Bianca Amber (Journalism)

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

Alberts, Lize (Philosophy)  
 Andre, Berdine (Psychology)  
 Barnard, Juan-Mari (German)  
 Behrens, Kai Mark Victor (Psychology)  
 Bhugwanth, Chantè Zeal (Ancient Cultures)  
 Briar, Isabella Ciara (Psychology)  
 Cronjé, Daniëlle (Social Anthropology)  
 Du Plessis, Marilé (English Studies)  
 Gasnola, Meagan (Psychology)  
 Hofmeyr, Nell (Journalism)  
 Hornea, Irina Carina (Ancient Languages)  
 Joubert, Marcus (Ancient Languages)  
 Kepkey, Brigitta Blumé (Psychology)  
 Kruger, Hermine (Psychology)  
 Kuhl, Kylie (Sociology)  
 Le Roux, Maria Catherina (Psychology)  
 Lourens, Ashley Wendy (Psychology)  
 Marx, Danya (Sociology)  
 McKenzie, Michelle Megan (Psychology)  
 Michaels, Angelique Olivia (Social Anthropology)  
 Mostert, Frederik Jacobus (Psychology)  
 Mothei, Masego Agnes (Chinese)  
 Nortier, Christi (Journalism)  
 Pedro, Ryan (Afrikaans and Dutch)  
 Roux, Anna-Michelle (Philosophy)  
 Saunders, Dawn Elizabeth (French)  
 Slippers, Susara Elizabeth (Translation)  
 Snyman, Matthew James (Ancient Cultures)

Stein, Debbie Lynne (Ancient Languages)  
 Stone, Arleen (Journalism)  
 Thomson, Shannon Debbie (Psychology)  
 Turner, Christina Emily (Ancient Languages)  
 Van Niekerk, Marisa (Visual Studies)  
 Van Schalkwyk, Nicolette Rolene (Journalism)  
 Van Wyk, Bianca (German)

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

Botha, Celeste Nicole  
 Van Wyk, Lorinda

**Honneurs-Baccalaureus in die Musiek Cum Laude**  
**Bachelor of Music Honours Cum Laude**

Froehlich, Anke Hilde  
 Heath, Lyudmyla  
 Petrie, Christopher

**Honneurs-Baccalaureus in die Lettere en Wysbegeerte in**  
**Visuele Kunste Illustrasie**  
**Bachelor of Arts Honours in Visual Arts Illustration**

Böttcher, Candice Olivia  
 Geldenhuys, Jeandri  
 Huyzers, Lila  
 Nepgen, Megan Louise  
 Schmid, Stefan

**Honneurs-Baccalaureus in die Lettere en Wysbegeerte in**  
**Visuele Kunste Illustrasie Cum Laude**  
**Bachelor of Arts Honours in Visual Arts Illustration Cum Laude**

Alexander, Neeske

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

Barry, Chanté Chelsea  
 Bezuidenhout, Stephan  
 Lesaoana, Makatleho  
 Mekoe, Macdonald Eddie  
 Olivier, Karel

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

Du Plessis, Hendrik Jacob  
 Hariman, Natalie  
 Pozyn, Jacobus Marnus

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

Badenhorst, Ronell  
 Bekwa, Senty Phindile  
 Cele, Mfanawethu Pennuel  
 Davies, Jerome Edward  
 Kgalaeng, Ishmael Oarabile  
 Mathebula, Gladness  
 Mlambo, Charles  
 Raphadu, Lebogang Mochelo

Seabela, Nomsa Shillah  
Wiehahn, Helena

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

Sithole, Thembinkosi Berresford

**Nagraadse Diploma in Musiektegnologie**  
**Postgraduate Diploma in Music Technology**

Mulder, Charles

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

Ameke, Sylvia Nyakallo  
Amutenya, Klaudia Kiinge  
Butale, Tsogo  
Chatikobo, Nyasha  
Chekure, Office Tapiwa  
Chingwende, Rumbidzayi Blessmore  
Chiota, Laura Vongai  
Chitambo, Desire  
Dlamini, Thabile Nomvuyo  
Dube, Laureen Shamiso  
Ederies, Gershwin Leo  
Faya, Khululiwe Virginia  
Goolam, Ayesha  
Gwazela, Themban  
Khowa, Thandeka Promise  
Ledwaba, Johanna Mapula  
Mabela, Thabo  
Madisha, Edwin Mohlopi  
Mahlangu, Thoko Poppy  
Mazyambe, Margaret  
Moncho, Motshidisi Perseverians  
Mugo, Immaculate  
Mukasi, Tafadzwa Jaqueline  
Mutale, Norah Mphoe  
Ndisiro, Josika  
Ndlovu, Vulindlela  
Nyapokoto, Henry  
Raphepe, Kefilwe Setsokole  
Seepheephe, Mphosi Cletus

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

Bawden, Donna Kelley

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

Mushandikwa, Wadzanayi

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

Aanhuizen, Iver Alfred  
Abrahams, Aqeelah  
Alexander, Robynne Tayla  
Andrews, Amy Dorothea

Archibald, Nicholas Gregory  
Arnold, Khaleel  
Arrison, Layla  
Avontuur, Laura  
Bailey, Damian Christian Dewin  
Balestri, Elena Tallula Lihle Ilanga  
Barclay, Gabriella  
Barkhuizen, Alewyn Jacobus  
Behrens, Matthew  
Bester, Kenau Michelle  
Beylefeld, Mandi  
Botha, Maria Gretel  
Boyd, Joshua  
Brandow, Mckyla  
Bronkhorst, Jason  
Caba, Nompendulo  
Cable, Jacqueline Christine Alexandria  
Campbell, Natasha  
Cant, Chamabert  
Cassiem, Tasneem  
Cawood, Lisa  
Chapman, Sebastian Keegan Bryce  
Cloete, Emma  
Coetzee, Sean  
Comrie, Violet Hannah-Jo  
Cupido, Cleve David  
D'Errico, Bianca Jessica  
Daniels, Iman  
Davids, Jade Zia  
Davidson, Thomas James  
De Beer, Iman  
De Koker, Bianca  
De Oliveira, Danielle  
Dedekind, Anna Schon  
Deister, Paul  
Downes, Nicholas Trouncer  
Druce, Oliver Rhys  
Du Plessis, Mark  
Du Toit, Danika  
Du Toit, Geriann  
Dube, Sindiso Rangarai  
Edwards, Hannah Caroline Rachel  
Erasmus, Anri  
Erasmus, Tristesse  
Esterhuizen, Alcino Dilhen  
Firman, Cheney  
Firth, Georgina Maria  
Flanagan, Liam  
Fortuin, Paulette Elisma  
Gammie, Nicole  
Geldenhuys, Dina-Mari  
Gomes, Alexander Carlos  
Greenhalgh, Josie  
Hanekom, Tammy Diane Elizabeth  
Haupt, Emma Jane  
Hendricks, Thea  
Hlatswayo, Thulani  
Hoar, Tayla

Hume, Sarah Margaret  
 Hurly, Shannon Aimee  
 Jacob, Hannah Victoria  
 Java, Panashe Salome  
 Jefthas, Jame Claire  
 Jefthas, Tammy Lee  
 Jonck, Carla  
 Jonsson, Olivia Amanda  
 Joubert, Miranda  
 Kieser, Rupert Johan  
 Kona, Sivu-Sinovuyo Thandiswa  
 Kornau, Taryn Angela  
 Kotze, Marguerite Helene  
 Kunneke, Mikhail Johann  
 Kwela, Shaun Mvelo Sazi  
 Lamprecht, Johanré  
 Lane, Matthew William  
 Lawrence, Jennifer Jo-Ann  
 Le Roux, Jean Guthrie  
 Le Roux, Tasmin Chanelle  
 Leak, Tivan  
 Lewis, Gaironesa  
 Lewis, Michelle  
 Likwa, Wilmien Fiena  
 Louw, Emile  
 Magerman, Anri Alycia  
 Maione, Susannah Emily  
 Majola, Emma Mmaxaba  
 Makinana, Abenathi Zongezile  
 Mamoepa, Bohlale Mashaa  
 Manaka, Lesedi  
 Manuel, Tahlea Crystal  
 Mapundu, Kamvelihle  
 Marais, Thomas Arnoldus  
 Maseko, Sithembiso  
 Mavuso, Bongumusa  
 Micheals, Jessica  
 Mngcongo, Nomonde  
 Moabelo, Christina Mamphela  
 Mockey, Chad Peter  
 Morgan-Wilson, Aidan Druce  
 Moseki, Confidence Kgomotshego  
 Mostert, Nicholas  
 Msiza, Sanele Nompumelelo  
 Muller, Bianca  
 Naude, Rion Hendrik  
 Nel, Cassandra  
 Newman, Amber Nicole  
 Njamela, Sive  
 Nolan, Aristo Kirk  
 O'Connell, Alexandra Mary  
 Olivier, Dean Richard  
 Pentz, Nadja  
 Phillips, Micha Kaitlin  
 Phillips, Tiffany-Amber  
 Potgieter, Charlene  
 Potgieter, Matthew William  
 Pretorius, Annika

Pretorius, Brooke  
 Pretorius, Paige Stephanie  
 Qina, Xhanti Buntu  
 Radoni, Athenkosi  
 Redcliffe, Jacana Joy  
 Reiners, Rustin  
 Renner, Andrea Karoline  
 Rich, Ashley Jean  
 Ross Stewart, Charlotte Fiona  
 Ruiters, Monique Melanie  
 Schoeman, Gabriele Danyela  
 Schutte, Ilge-Mari  
 September, Emily Agneta  
 Setton, Sophie Isabella  
 Sikani, Mhlali  
 Simon, Lize Yvonne  
 Simpson, Robyn Samantha  
 Slot, Gabriella Leanne  
 Smit, Lianne Judith  
 Snyders, Lavern Charik-lann  
 Solombela, Kamvelihle  
 Solomon, Shanice  
 Speechly, James Clifford  
 Stapylton-Smith, Emily Rose  
 Steenkamp, Morton Grant  
 Stevens, Jay Kevin  
 Swanepoel, Danielle  
 Swart, Lourens  
 Theron, Jonita  
 Thomas, Kelsey  
 Thompson, Victoria Madeleine  
 Thornton, Dylan  
 Tomose, Lusanda  
 Tyobeka, Mpilo Babalo  
 Van der Merwe, Adrienne Madeleine  
 Van der Merwe, Anika  
 Van der Watt, Kevin  
 Van der Westhuizen, Rochelle  
 Van Dijk, Lizelle  
 Van Eck, Christina Wilhelmina  
 Van Niekerk, Wanda  
 Van Waardhuizen, Marile  
 Van Wyk, Demi Cagney  
 Van Zyl, Gloudina Maria  
 Veness, Chloe Mae  
 Viljoen, Lana  
 Von Thelemann, Claus Wilhelm  
 Vosloo, Robert Roux  
 Wakeham, Ricky-Anne  
 Watling, Jessica Mary  
 Werth, Carla  
 Wesselo, Jessica Anne  
 Wiehman, Emma Annette  
 Wilson, Lawrence Lesley  
 Woodgate, Nicola  
 Yoo, Seoho  
 Young, Emily Jane

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

Den Besten, Lauren Marion  
Gild, Kayla  
Hands, Jozef Bevan Morkel  
Roux, Jacqueline  
Smit, Danielle  
Talkenberg, Mareike

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

Bezuidenhout, Destiny Denise  
Davids, Jacques  
Du Toit, Nicole Diane  
Gadlala, Sinazo Humane  
Isaacs, Abigail Dalvinia Reshuan  
Januarie, Wilmé  
Jordaan, Adriaan Johannes  
Lackay, Michaela  
Miggels, Raydean Joanita  
Ramsden, Bernerize Laudine  
Samuels, Lee-Anne Chriszelle  
Scharneck, Marcia-Beth  
Schippers, Mischke Kay-Leigh  
Venter, Drikus

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

De Reuck, San-Mari  
Gibson, Dylan Lawrence  
Koen, Liné  
October, Jessica Sally  
Tremble, Caron Lisa  
Visser, Andre Christiaan  
Wilken, Rozelle

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

Pereira, Stéphanie (Fine Arts)

**Diploma in Praktiese Musiek**  
**Diploma in Practical Music**

Yun, Byung Wook



A decorative image of oak leaves in the top left corner of the page.

3

5 April 2019

10:00

## Fakulteite

*Natuurwetenskappe*

*Opvoedkunde*

*Regsgeleerdheid*

*BA (Regsgeleerdheid), LLB en nagraadse kwalifikasies van Regsgeleerdheid*

*Krygskunde*

## Faculties

*Science*

*Education*

*Law*

*BA (Law), LLB and postgraduate qualifications of Law*

*Military Science*





# 3

## PROGRAM

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

## PROGRAMME

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

# EREGRAD | HONORARY DEGREE

## *Fakulteit Natuurwetenskappe* *Faculty of Science*

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

LLOYD NICHOLAS TREFETHEN

vir sy merkwaardige vakkundigheid en sy verstommende navorsingsuitsette ter bevordering van die wêreldwye popularisering van wiskunde; vir die uitdaging van konvensionele waarhede deur nuwe insigte; en vir sy ruimhartige kennisoordrag van die afgelope 30 jaar om 'n nuwe generasie van wiskundige wetenskaplikes in Afrika te help ontwikkel.

As nie-amptelike wêreld-kurator van numeriese wiskunde sluit prof Lloyd Nicholas Trefethen se uitsette meer as 100 navorsingsartikels, agt boeke en vele praktiese innovasies in. Deur sy langdurige verbintenis met Suid-Afrika ondersteun hy ontluikende wiskundige wetenskaplikes en dra hy by tot die ontwikkeling van 'n broodnodige skaars vaardigheid.

Hy verwerf sy eerste graad in Toegepaste Wiskunde *summa cum laude* aan Harvard-kollege, en sy magister- en doktorsgraad aan Stanford. Hierna bring Trefethen twee jaar by die bekende Courant-instituut aan die Universiteit van New York deur as nadoktorale genoot van die Amerikaanse Nasionale Wetenskapstigting. Ná aanstellings by die Massachusetts Instituut vir Tegnologie (MIT) en Cornell-universiteit, aanvaar hy 'n professoraat aan die Universiteit van Oxford, Verenigde Koninkryk, waar hy steeds grense verskuif as hoof van die Numeriese Analisegroep.

Hy waag dit ook graag buite die grense van sy vakgebied op terreine soos die fisika en gesondheidswetenskappe, waar hy konvensionele waarhede met nuwe insigte bevraagteken, onder meer die heromskrywing van die liggaamsmassa-indeks as 'n maatskaf vir vetsug, waaroor internasionaal berig is.

Sy lang lys eerbewyse sluit in sy verkiesing as genoot van die Royal Society, die Internasionale Vereniging vir Bedryfs- en Toegepaste Wiskunde (SIAM) en die Amerikaanse Wiskundige Vereniging. Toonaangewende toekenning soos die Naylor-prys van die Londense Wiskundegenootskap in 2013 en die George Pólya-prys vir voortreflike uiteensetting in wiskundige skryfwerk in 2017 spreek boekdele oor sy statuur.

for his remarkable scholarship and his astonishing body of work advancing the global popularisation of mathematics; for challenging conventional wisdom with novel insight; and for generously sharing his expertise over 30 years to help cultivate a new generation of mathematical scientists on the African continent.

Considered the unofficial global guardian of numerical mathematics, esteemed mathematical scientist Prof Lloyd N Trefethen's work includes more than 100 research papers, eight books and multiple practical innovations. Through his longstanding close ties to South Africa he supports budding mathematical scientists and contributes to the development of a scarce skill the country needs.

Having obtained his first degree in Applied Mathematics *summa cum laude* from Harvard College, and his master's degree and doctorate from Stanford, Trefethen spent two years at the well-known Courant Institute at New York University as a postdoctoral fellow of the United States National Science Foundation. Following positions at the Massachusetts Institute of Technology (MIT) and Cornell University, he accepted a professorship at Oxford University, United Kingdom, where he continues to break new ground as head of the Numerical Analysis Group.

Prof Trefethen also regularly ventures beyond the confines of his field into areas such as physics and health science, where he challenges the conventional wisdom with novel insight, for example his redefinition of the body mass index as a measure of obesity which made international headlines.

Honours bestowed upon Trefethen include his election as a fellow of the Royal Society, the Society for Industrial and Applied Mathematics as well as the American Mathematical Society. Prestigious awards such as the 2013 Naylor prize of the London Mathematical Society and the 2017 George Pólya prize for exposition in mathematical writing speak volumes about his stature.

## Doktor in die Wysbegeerte Doctor of Philosophy

**BANGIRA, Tsitsi** (Geography and Environmental Studies)

*Mapping surface water in complex and heterogeneous environments using remote sensing*

Accurate and robust methods for monitoring surface water (SW) are needed to mitigate the impacts of droughts and floods. Satellite remote sensing (RS) technology is ideal for repeated SW mapping. However, SW is often characterised by the presence of submerged vegetation and suspended substances. These characteristics limit the application of RS for monitoring SW. New techniques were developed to overcome these limitations and were successfully applied to monitor floods in the Caprivi. The techniques, which included machine learning, were also used to monitor changes in SW during the recent drought in the Western Cape.

*Supervisor:* Prof A van Niekerk

*Co-supervisor:* Prof M Menenti

**BRANDT, Bianca Anina** (Microbiology)

*Hardening yeast for cellulosic ethanol production*

Microbial inhibitors released during the degradation of lignocellulose have a severe effect on the fermentation of *Saccharomyces cerevisiae*. Robust xylose-degrading strains of *S. cerevisiae* used in the industry were engineered by cloning genes coding for the detoxification of (and resistance to) inhibitors into the yeast genome. Expression of novel gene combinations produced strains with improved tolerance to inhibitors and the ability to ferment sugarcane hydrolysates and spent sulphite liquor, which is an abundant lignocellulose waste stream. The robust yeast strains developed introduced new strategies in the development of industrial yeast strains for efficient cellulosic ethanol production.

*Supervisor:* Prof WH van Zyl

*Co-supervisor:* Prof JF Görgens

**CHALEBGWA, Taboka Prince** (Mathematics)

*Nevanlinna theory and rational values of meromorphic functions*

A point  $(x, f(x))$  on the graph of a function  $f$  is said to be rational if both  $x$  and  $f(x)$  are rational numbers. Each rational point possesses a height denoted by  $H(x, f(x))$ . For a meromorphic function  $f$  satisfying certain conditions related to its Nevanlinna characteristic it was proved that, on an appropriate subset of the graph of  $f$ , as a positive number  $T$  grows to infinity, so the number of rational points  $(x, f(x))$  with  $H(x, f(x))$  less than  $T$  grows no faster than a polynomial in the logarithm of  $T$ . Related results were proved for various entire or meromorphic functions.

*Supervisor:* Dr GJ Boxall

**CLEMENTS, Monica Jade** (Chemistry)

*Investigating the formation of multicomponent crystals of antiparasitic agents*

The search for affordable, viable antimalarial drugs continues to be a worthwhile endeavour. The possibility of improving the biophysical properties of known and new drug molecules, using the formation of multicomponent crystals, was explored. A virtual screening strategy based on molecular electrostatic potential surfaces was used to select potential cocrystals that resulted in 19 new multicomponent forms. The synthesis of a ferrocenyl derivative of lapatinib was described. This led to an interesting side study on crystal forms of 6-substituted quinazolinones.

*Supervisor:* Dr MAL Blackie

*Co-supervisor:* Dr T le Roex

**DJIOMBA NJANKOU, Sylvie Diane** (Mathematics)

*Mathematical models of Ebola virus disease with socio-economic dynamics*

The Ebola virus disease of 2014 presented an immense challenge in West Africa and the world in general. Mathematical models on the dynamics of the spread of the disease played an important role in evaluating control strategies and designing intervention policies. Mathematical models, with the potential to be applied in future Ebola epidemics, were designed in the form of compartmental models and analysed. The models were fitted to data recorded during the epidemic to determine the rates of disease evolution. The implications of the models in the control of the disease are also presented.

*Supervisor:* Prof Farai Nyabadza

**DU PLESSIS, Daniel Jacobus**

(Geography and Environmental Studies)

*The impact of spatial planning on the structure of South African cities since 1994*

The role of spatial plans and their evaluation within the framework of changing views and theories in the field of urban planning were defined in this study. Through an analysis of a selection of South African metropolitan and medium-size cities, the impact of spatial planning on key elements of the structure of cities in South Africa was determined. The study offers a roadmap for a more complete approach to spatial planning evaluation in the country. This should contribute to the refinement of planning evaluation in South Africa and the improvement of the quality of the spatial planning process.

*Supervisor:* Prof HS Geyer

**DU TOIT, André (Biochemistry)*****Measuring and modelling autophagic flux***

Autophagy is an evolutionarily conserved cellular process of self-digestion, wherein cytoplasm and organelles are sequestered and delivered to lysosomes for degradation. Autophagy plays a vital role in maintaining proteostasis; its dysfunction has been linked to the progression of several pathologies, such as neurodegeneration. The success of autophagy-targeting therapies depends, however, on our ability to accurately measure autophagy. By using stably expressing mouse embryonic fibroblasts, a novel, single-cell analysis-based approach was validated and applied to screen autophagy-modulating drugs. Novel biomarkers for autophagosome flux were identified and supply demand analysis was performed to characterise its distribution, paving the way towards clinical translation.

**Supervisor:** Prof B Loos

**Co-supervisor:** Prof JHS Hofmeyr

**DUNAISKI, Marcel Paul (Computer Science)*****Using test data to evaluate rankings of entities in large scholarly citation networks***

Scientometrics (the measurement of scientific publications) is an emerging field of study. Open questions such as best practices when ranking authors, academic units, publications and venues were addressed in this study. In particular, a benchmark was developed to evaluate the influence of publication metrics and ranking algorithms. The evaluation was based on two large citation networks and measured the accuracy of comparisons and their fairness across disciplines. The conclusion was that direct approaches, such as citation counts, are vastly inferior to indirect methods, such as the PageRank algorithm.

**Supervisor:** Prof WC Visser

**Co-supervisor:** Prof J Geldenhuys

**GUMEDE, Sthembiso Reuben (Physics)*****Membrane coupled to the cytoskeleton: Fluctuations and stability***

In erythrocytes the plasma membrane is coupled to the underlying two-dimensional hexagonal network of spectrin. A theoretical physical model was developed to treat the detachment of a membrane from such a substrate. Flexible membranes were elastically linked at random points to a substrate under an applied pressure differential across the membrane. This quenched randomness required the use of the replica formalism, which was investigated from both replica symmetric and weakly broken replica symmetry perspectives. The results were compared with continuum and annealed adhesion models, indicating possible routes to the structural failure of such systems under pressure.

**Supervisor:** Prof KK Müller-Nedebock

**Co-supervisor:** Dr L Boonzaaier

**HORN, Aletta Johanna (Geography and Environmental Studies)*****An analysis of an urban edge as urban growth management instrument: Cape Town, South Africa***

The reasons for the termination of the enforcement of the urban edge policy in the City of Cape Town formed the basis of this study. The spatial outcomes of the policy since 2001 were evaluated using an urban sprawl index. In addition, by means of a five-stream confluence model, the decision-making processes associated with urban development proposals contravening the urban edge line were investigated. The results revealed that as an urban growth management instrument it was successful and that the decision-making processes revealed consistent poorly motivated political decisions, suggesting a neoliberal capture of the decision-making authority.

**Supervisor:** Prof SE Donaldson

**JANSEN, Trudy (Microbiology)*****Exploring new *Saccharomyces cerevisiae* strains suitable for the production of cellulosic bioethanol***

Natural strains of *Saccharomyces cerevisiae* isolated from stressful environmental conditions were screened for production of second-generation bioethanol. Two strains showed increased tolerance to high temperatures and inhibitory compounds, while maintaining high ethanol production. Transcriptomic analyses suggested the presence of specific molecular mechanisms that allowed fermentation under stressful conditions. Artificial hybridisation between natural strains generated strains with improved tolerance to salt and pH. Yeast in the natural environment with unique physiological traits could be genetically changed to improve tolerance to harsh processing conditions.

**Supervisor:** Prof WH van Zyl

**JOOSTE, Michelle (Botany)*****The diversity and nature of endophytic associations of southern African *Oxalis****

An investigation of plant microbial endophytes associated with indigenous Cape *Oxalis* plants revealed a previously unknown symbiosis between plants and nitrogen-fixing bacteria. Culture-dependent, molecular, metabarcoding and experimental techniques confirmed that beneficial bacteria (*Bacillus* species) were transferred to seeds. Three of the most common nitrogen-fixing bacteria are specially adapted to utilise the oxalic acid and oxalates produced within cavities of the host plant body and seeds. This discovery suggests unexpected ways in which these plants are adapted to avoid nitrogen deficiency, survive and thrive in the nutrient-depleted environments of the Cape flora. These findings may have far-reaching conservation, agricultural and economic applications.

**Supervisor:** Prof LL Dreyer

**Co-supervisor:** Dr KC Oberlader

**KARA, Jyothi Ashok (Zoology)*****Taxonomic and molecular assessment of the apparently alien and cosmopolitan Nereididae Blainville, 1818 polychaetes from South Africa***

Marine polychaete worm species are believed to have global distributions. However, structural and genetic data demonstrated that three species thought to occur globally, including in South Africa, each comprise multiple genetically distinct species that are morphologically similar or identical to one another. Furthermore, although the South African species have overlapping distributions and are closely related to one another, they have different population structures, reflecting different geological ages and probably different patterns of larval dispersal. Such information is essential for conservation in the face of biodiversity loss induced by global environmental change.

**Supervisor:** Prof CA Simon

**Co-supervisors:** Drs A Macdonald, K Sink

**KEET, Jan-Hendrik (Botany)*****Understanding the biodiversity impacts of invasive species: Investigating changes in below- and above-ground mutualistic networks in response to invasions***

Invasive plants pose a serious threat to the Cape region's unique biodiversity. This study demonstrated that natural fynbos soil microbial communities are characterised by strong spatial structure. The presence of invasive Australian acacias diluted this signal and caused increased levels of soil nitrogen. Invasive acacias also altered key functions related to nitrogen and phosphorous cycling in soils. Numerous invasive acacias were found to share the same suite of nitrogen-fixing bacteria, a key determinant of their invasion success. These findings have profound implications for the management of invasive species and the restoration of land previously invaded by acacia.

**Supervisor:** Prof JJ le Roux

**Co-supervisors:** Profs AG Ellis, C Hui

**MABANK, Tanya (Chemistry)*****Synthesis of novel tetrahydroisoquinoline-related estrogen receptor modulators***

The tetrahydroisoquinoline (THIQ) core has a rich history as a natural product skeleton and as a scaffold in drug discovery. This motif was used as the basis of synthetic small molecule libraries to mimic estradiol, the natural ligand for the estrogen receptor (ER). Estrogen is a hormone that is known to play an important role in women afflicted by breast cancer. Four small sets of THIQ-based compounds were synthesised to have ER-binding ability. Preliminary biochemical and whole-cell tests revealed that some of the compounds showed modest activity against breast cancer cells.

**Supervisor:** Prof WAL van Otterlo

**Co-supervisor:** Dr SC Pelly

**MAWEZA, Elijah Loyiso (Physics)*****Development and beam shaping of near and Mid-IR Lasers***

Through a comparative study on two different optical switches, new designs and switching techniques for miniature pulsed lasers were investigated for ranging applications. These lasers need short pulses, high repetition rates and high peak powers to map terrain and objects rapidly. A new switching technique to pulse these lasers was developed, which improved their performance and reliability. Beam shaping of mid-infrared (IR) light using a spatial light modulator was demonstrated for the first time. These techniques are essential to increase data transfer rates through free space using different spatial modes of mid-IR laser light.

**Supervisor:** Dr HJ Strauss

**Co-supervisor:** Prof EG Rohwer

**MAYNE, Matthew Jason (Geology)*****Development of new software tools for phase equilibrium modelling in open systems***

Thermodynamic modelling of the mineral assemblages and mineral compositions that define chemical equilibrium in metamorphic and igneous rocks, within a range of pressure and temperature conditions (phase equilibrium modelling), has, to date, not been able to adequately deal with the changes in composition of the system. Yet compositional change is a fundamental consequence of geological mass-transfer processes, such as melt segregation from residual crystals or mixing between magmas of different composition. This study developed new software that allows for phase equilibrium modelling with flexible bulk compositional change that is triggered by the physical characteristics of the system.

**Supervisor:** Prof G Stevens

**Co-supervisor:** Prof J-F Moyen

**MOHANTY, Nitya Prakash (Zoology)*****The invasive Indian bullfrog *Hoplobatrachus tigerinus* on the Andaman Islands: Evaluating drivers of distribution, density and trophic impact of an early-stage invader***

Novel invasions require immediate attention to determine the intensity of their impacts and drivers of their spread. The non-native Indian bullfrog was first recorded on the Andaman Islands in 2013, but this study discovered that the invasion started around 2001. Impacts include predation of and competition with endemic vertebrates by adult frogs, while in an experiment, its tadpoles exterminated all local larvae. Modelling the population stressed the importance of translocations by islanders, and thereby the potential for this species to spread to currently uninvaded areas. Innovations in this work will help in reacting to future novel invasions.

**Supervisor:** Dr J Measey

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**POTGIETER, Luke John (Botany)*****Assessing the impacts of invasive alien plants on urban ecosystem services***

Urban areas are hotspots for alien plant invasions. Alien and invasive plants in urban areas provide ecosystem services and disservices. Contrasting perceptions of invasive alien plants (IAPs) and their management highlight potential conflicts of interest. Factors related to safety and security drive the selection for priority sites for IAP management. The association between vegetation and crime is determined by the structure of dominant plants, but a stronger association may occur in areas where plant invasions have drastically altered vegetation structure. These findings have profound implications for the management of alien and invasive plant species in urban areas around the world.

**Supervisor:** Prof DM Richardson

**Co-supervisors:** Drs PJ O'Farrell, M Gaertner

**REYNOLDS-CLAUSEN, Kelley Anne (Microbiology)*****The utilisation of bacterial species diversity as a bioindicator for biocide efficacy in water systems***

Microbiological communities in cooling water systems are managed through the addition of biocides that kill microorganisms, resulting in a decrease in microbial species diversity and the concomitant metabolic pattern of the community. Changes in the metabolic pattern of the community after biocide treatment were used as a proxy for changes in microbial species diversity, correlated with and confirmed using denaturing gradient gel electrophoresis analysis. Metabolomics therefore offered an effective means of evaluating biocide efficacy in cooling water. A further study of biocidal/antibiotic cross-resistance indicated that biocide-resistant bacteria developed antibiotic resistance to rifamycin, ethionamide and aztreonam.

**Supervisor:** Prof TE Cloete

**Co-supervisor:** Dr M Botes

**SNYMAN, Marius Christian (Genetics)*****Modulation of the *Vitis vinifera* cv. 'Chardonnay' microRNA and mRNA transcriptomes in response to aster yellows phytoplasma infection***

The aster yellows phytoplasma group causes a detrimental disease in grapevine, known as grapevine yellows (GY). Transcriptome sequencing and comparative profiling were used to identify differentially expressed miRNAs and genes in diseased grapevines. The results showed that miRNA target genes were involved in plant morphology, hormone signalling, nutrient homeostasis as well as plant stress. Furthermore, differentially expressed genes in infected plants were involved in plastid and cell wall architecture, signalling, innate immunity, pathogen defence, secondary metabolism and photosynthesis. These results are crucial in understanding disease symptom development and may be used to develop GY disease control strategies that may mitigate the scale of infection or prevent spread.

**Supervisor:** Prof JT Burger

**Co-supervisor:** Dr D Stephan

**TAKYI, Ishmael (Physics)*****Structure functions of the nucleon in a soliton model***

The nucleon is a subatomic particle subject to the strong nuclear force. Although it is the nucleus of the hydrogen atom and therefore the building block of matter, it is not a fundamental particle, but has internal structure. Utilising an effective model that resembles essential features of the fundamental theory (which is too complicated to be solved) for the nuclear force, this structure was theoretically examined by large-scale numerical simulations. The results were found to be a good match to empirical data, and previous conjectures on the decomposition among various contributions to the structure were verified.

**Supervisor:** Prof H Weigel

**Co-supervisor:** Prof FG Scholtz

**VENTER, Pieter Botha (Chemistry)*****Analysis of complex tannins by multidimensional techniques***

Novel multidimensional analytical techniques for the comprehensive analysis of complex mixtures of natural phenolics were developed in this study. Complementary one-dimensional chromatographic separations were used in combination with diode array detection, ion mobility spectrometry and high-resolution mass spectrometry for the detailed analysis of hydrolysable tannins. To improve the chromatographic separation, online comprehensive two-dimensional liquid chromatographic methods were also developed for these samples. The incorporation of ion mobility spectrometry as a third separation step following online comprehensive two-dimensional liquid chromatographic separation was evaluated, providing a novel three-dimensional analytical methodology for the analysis of highly complex samples.

**Supervisor:** Prof AJ de Villiers

**Co-supervisor:** Prof H Pasch



## **Doktor in die Wysbegeerte** **Doctor of Philosophy**

**ATMORE, Eric** (Education Policy Studies)

*An interpretive analysis of the early childhood development policy trajectory in post-apartheid South Africa*

This ground-breaking study provides an in-depth analysis and interpretation of the South African early childhood development (ECD) policy trajectory from 1990 to 2015. The insider approach of both researcher and policymaker has allowed the candidate to analyse how the ECD policy trajectory has shaped the evolution of ECD during a period of rapid social, political, economic and education transformation. The study produced evidence-based insights and lessons in relation to ECD policymaking, political support required, policy implementation and the ECD sector that have global relevance. These insights and lessons will enable policymakers in government to make effective policy choices in the critical ECD sector.

**Supervisor:** Prof N Davids

**ATTERBURY, Elizabeth Maria** (Sport Science)

*Exploring therapeutic neurogenic tremors with exercise as a treatment for selective motor and non-motor Parkinson's disease symptoms*

Individuals with Parkinson's disease experience motor symptoms, such as poor postural control, and non-motor symptoms, including depressive moods, anxiety and autonomic dysregulation, typically exaggerated by perceived stress. This study investigated the effect of self-induced therapeutic neurogenic tremors (TNT) by means of a nine-week trauma release therapy programme on selective motor and non-motor symptoms. The main findings of this explorative study suggest that relaxation-based exercises with or without TNT are beneficial towards improving quality of life, selective non-motor symptoms and gait performance in individuals with Parkinson's disease.

**Supervisor:** Dr KE Welman

**COETZEE, Catherina Maria** (Curriculum Studies)

*A workload model for nurse educators in private higher education: Options for improved productivity and job satisfaction*

Nursing education in South Africa is continuously being influenced by significant changes in all spheres of higher education, and these changes have a major impact on the workload of nurse educators in private higher education. The study analysed the current productivity and job satisfaction of nurse educators and found that their workload is of a complex and multifaceted nature. The study clearly revealed that nurse educators are under immense pressure within rapidly changing nurse education environments. The main value of the enquiry lies in its contribution to developing a nurse educator workload model as a management tool to determine person-power requirements during planning and budgeting operations in private higher education nursing education.

**Supervisor:** Prof EM Bitzer

**MCCONNEY, Angelique Rochelle** (Curriculum Studies)

*The role of a peer mentoring programme in the adjustment of first-year university students*

Peer mentoring programmes have become a central part of support offered to first-year students to improve student retention and success. This study investigated the effects of the Be Well Peer Mentoring Programme at Stellenbosch University on the adjustment of first-year students. Whereas the quantitative data did not produce statistically significant differences between the adjustment of participants and non-participants, qualitative data generated by focus group discussions yielded valuable insights into the strengths and shortcomings of the programme, leading to recommendations for more effective programme implementation in the future. Guidelines for high-intensity peer mentoring were also developed, which could also be applied at higher education institutions elsewhere.

**Supervisor:** Prof M Fourie-Malherbe

**SACKEY, Saint Andrews** (Sport Science)

*The effects of an eight-week customised endurance-training programme on running kinematics and impact associated with fatigue in recreational runners*

The incidence rate of running-related injuries is a concern among runners and coaches. Loading and fatigability have been linked as underlining risk factors. It has been proposed that runners would automatically fine-tune their kinematics after exposure to training to be more efficient, perform better and reduce injuries. The 'self-optimisation hypothesis' under fatigued conditions was evaluated. Running-induced fatigue changed some running kinematics parameters, with accompanying increases in the cost of oxygen transport. Eight weeks of endurance training led to significant alterations in gait kinematic parameters for better efficiency under fatigued conditions with a corresponding decrease in the cost of oxygen transport.

**Supervisor:** Prof RE Venter

**Co-supervisor:** Dr K Schütte

**SINCLAIR, Elmien** (Curriculum Studies)

*Transforming student counselling services for a future Stellenbosch University*

This study explored how centres for student counselling, with particular reference to Stellenbosch University, could transform to contribute optimally to student success. Interactive qualitative analysis was used to collect data from staff of the Centre for Student Counselling and Development, other university staff and students. The findings of the study point to the need to substitute the current problem-centred medical service delivery model of student counselling centres with a holistic developmental approach that would create opportunities for students' growth and development. Student counselling services should also transform into open systems that promote interaction between different organisational sub-systems.

**Supervisor:** Prof M Fourie-Malherbe

**Co-supervisor:** Prof D Daniels

**VAN ZYL, Ann Elizabeth (Curriculum Studies)**

*Re-exploring the anaesthetic and recovery room component of the Diploma in Operating Department Assistance curriculum at a private higher education institution in South Africa*

The study showed that the anaesthetic and recovery room course, embedded within the Operating Department Assistance curriculum in private higher health education, requires a number of changes to meet stakeholder needs. It makes a clear knowledge contribution by identifying several strategies for curriculum change and confirms the requirements for competent anaesthetic assistants in the clinical context. For the first time, the outcomes and content for an anaesthetic and recovery room course framework became available and the study adds in a substantial and practical way to programme planning and review in private health education in South Africa.

**Supervisor:** Prof EM Bitzer

**Co-supervisor:** Prof A van der Merwe

## *Fakulteit Regsgeleerdheid* *Faculty of Law*

### **Doktor in die Regsgeleerdheid** **Doctor of Laws**

**MARAIS, Albertus Johannes (Mercantile Law)**

*Abuse of legal personality to avoid tax: Piercing the corporate veil as remedy in case of the abuse of legal personality for tax purposes*

Companies and natural persons are often subject to different tax consequences. By using the separate legal personality of a company primarily to obtain more beneficial tax results, shareholders may perpetrate an abuse of separate legal personality. This study considered whether the use of legal personality primarily for tax reasons amounts to an abuse thereof beyond what is permitted. It analysed whether a company's separate legal personality may then be ignored (or 'pierced') in terms of the common law, section 20(9) of the Companies Act of 2008 or the general anti-avoidance rules in the Income Tax Act of 1962.

**Supervisor:** Prof AH van Wyk

**Co-supervisor:** Dr I du Plessis

**MEISSNER, Ilke Ingrid (Private Law)**

*Securities within the realm of private law: A theoretical and practical analysis of the legal nature of shares*

This study investigated the implications for the legal nature of shares of the move from paper-based to electronic trading and systemic intermediation. Firstly, it was concluded that the resort to account-based transfer mechanisms renders the resort to cession redundant. Secondly, the Anglo-American view that under systemic intermediation investors hold interests derived from a share rather than the share itself was rejected as inconsistent with our law's notion of ownership. Finally, although shares are obligations, an evaluation of the issuer-investor bond shows that they are simultaneously object-like. Guidelines were developed to determine under which circumstances obligations can be maintained against third parties.

**Supervisor:** Prof GF Lubbe

**PHAKENG, Madimetja Alfred Lucky (Mercantile Law)**

*Regulation of takeovers and mergers with an emphasis on the mandatory offer rule: A comparative and critical analysis of the law and the institutions that have been set up to enforce the law*

This study assessed the regulation of takeovers and mergers and the institutions created to enforce the law from a comparative perspective. It used South Africa as its point of departure and took the laws of Delaware in the USA, the UK and Australia into account. It indicated that numerous takeover provisions in South Africa are poorly formulated, making them difficult to interpret and apply. Accordingly, the study recommends amendment and improvement of certain takeover provisions. Special emphasis was placed on the mandatory offer requirement set out in section 123 of the South African Companies Act. It is proposed that this requirement be reconsidered in South Africa.

**Supervisor:** Prof PJ Sutherland

**VAN DER WALT, Johann Nico (Mercantile Law)**

*The definitions of 'inside information' and 'insider' in the Financial Markets Act 19 of 2012*

The definitions of 'insider' and 'inside information' in the Financial Markets Act 19 of 2012 are, as is the case with their international counterparts, central to the Act's regulation of insider trading. It has long been recognised, however, that these definitions, inherited from repealed companies and market abuse legislation, are cumbersome and counter-intuitive. This study argues that the definitions, part of legislation aimed at addressing a financial market wrong, should be formulated with reference to the rights and obligations at play in those markets and the legislature's objectives for those markets. A proposal is made in this regard.

**Supervisor:** Prof AH van Wyk



*Fakulteit Krygskunde*  
*Faculty of Military Science*

**Doktor in die Wysbegeerte in Krygskunde**

**Doctor of Philosophy in Military Science**

**JANSE VAN RENSBURG**, Wilhelm Keyter (Military Science)

*Twenty years of democracy: An analysis of parliamentary oversight of the military in South Africa since 1994*

Democratic theory and the criteria of the Geneva Centre for Democratic Control of Armed Forces, Inter-Parliamentary Union and Transparency International informed the theoretical and empirical aspects of the dissertation. The candidate developed an extended instrument from internationally accepted criteria to measure parliamentary defence oversight in South Africa, covering four administrations. Combining information obtained from parliamentary archives and interviews with selected MPs, the candidate tracked a visible trend of increased oversight mechanisms during the first two administrations after 1994, but an evident decline in the execution of oversight towards the fourth administration. The study confirms that the selected internationally accepted measuring criteria serve to analyse defence oversight in the South African case. The findings offer a practical tool for MPs to enable the optimization of defence oversight in emergent democratic states, and South Africa in particular.

*Supervisor:* Prof F Vrey

*Co-supervisor:* Prof TG Neethling



## ANDER KWALIFIKASIES | OTHER QUALIFICATIONS

### *Fakulteit Natuurwetenskappe* *Faculty of Science*

#### **Magister in die Natuurwetenskappe** **Master of Science**

Adonis, Muneeb (Physiological Sciences)  
Bergh, Wikus (Chemistry)  
Bock, Bianca Annina (Physiological Sciences)  
Cilliers, Kirstin Leza (Geology)  
Doggart, Shane William (Geology)  
Faulmann, Tayla Sasha (Physiological Sciences)  
Hattingh, Brandon Dane (Physics)  
Keanly, Catherine Alice (Zoology)  
Kgopong, Rashawe Modirwa (Zoology)  
Khoza, Akile (Physiological Sciences)  
Kingwill, Russell Alexander (Applied Mathematics)  
Kleynhans, Jacob Lourens (Polymer Science)  
Langat, Gilbert Kiprotich (Mathematics)  
Maggott, Emile Darron (Chemistry)  
Martin, Jade Kyle (Microbiology)  
Masipa, Lehlohonolo Thloni (Operations Research)  
Mvubu, Mhlasakululeka (Mathematics)  
Ndlangalavu, Gcobisa (Microbiology)  
Page, Lucan Dylan (Genetics)  
Sibanda, Charmaine (Physics)  
Sibanda, Ndumiso (Polymer Science)  
Tunstall, Rebecca (Physiological Sciences)  
Van Niekerk, Marthinus Gerhardus Mynhardt (Polymer Science)

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

Bertossi, Luca (Polymer Science)  
Biko, Odwa Dinilesizwe Vuyani (Microbiology)  
Briers, Christoffel Jacobus (Applied Mathematics)  
Brink, Danielle (Biochemistry)  
Cisneros Lazaro, Deyanira Graciela (Geology)  
Conradie, Daleen (Physiological Sciences)  
Du Preez, Brian (Botany)  
Eksteen, Anishka (Biochemistry)  
Fourie, Carla (Physiological Sciences)  
Gibbon, Jerard (Microbiology)  
Horn, Shade (Biochemistry)  
Kohlakala, Aviwe (Applied Mathematics)  
Louw, Jan Cillie (Physics)  
Lushozi, Nqobile Quinton (Geo-informatics)  
Mamhende, Precious Gamuchirai Muchaneta (Biochemistry)  
Marais, Eugene (Zoology)  
Muiyser, Susan Maria (Biochemistry)  
Ranaivomanana, Valimbavaka Hosana (Mathematics)  
Rozanova, Julia Andreevna (Mathematics)  
Schultze, Melissa Jane (Zoology)  
Stephens, Kirstin (Zoology)  
Sugden, Cameron (Physiological Sciences)  
Tetteh, Josephine Naa Ayeley (Mathematics)  
Valentine, Marisa (Microbiology)  
Van Wyk, Morné (Biochemistry)

Van Wyk, Rosalind Jeanette (Biochemistry)  
Venter, Jana (Chemistry)  
Vermeulen, Ross Rayne (Microbiology)  
Waso, Frederick John (Physics)

#### **Honneurs-Baccalaureus in die Natuurwetenskappe** **Bachelor of Science Honours**

Becker, Adolf Burger (Computer Science)  
Burger, Carel Johannes Christiaan Dewet (Computer Science)  
De Lilly, Melissa Claire (Biochemistry)  
Galloway, Sarah (Applied Mathematics)  
Gqola, Chuma (Polymer Science)  
Mleni, Samkele (Earth Sciences)  
Nombula, Makabongwe (Mathematics)  
Tyolo, Mbali Onicah (Applied Mathematics)

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

Griessel, Kathryn Lee (Microbiology)  
Mouton, Rozanne (Geo-informatics)

#### **Baccalaureus in die Natuurwetenskappe** **Bachelor of Science**

Arendse, Byron Kenneth  
Auer, Celine  
Bahnmann, Blaine Reece  
Booyesen, Chevonne Chantel  
Bradley, Taheera  
Bredevelde, Luca  
Brits, Anya  
Bromwich, Jayde Caroline  
Brown, Stuart Nicholas  
Bryan, Davon  
Burmeister, Marizaan  
Buxton, Ashleigh Meagan  
Carstens, Chanel Charlotte  
Carter, Kayleigh  
Chaaake, Colett Tholoana  
Chellun, Nishita  
Coetzee, Divan  
De Klerk, Lesley-Joan  
De Villiers, Marianne  
Dennis, Mikhayla Latasha  
Doughty, Stephanie Margret  
Engel, Stacey Caitlin  
Ferreira, Michael Ignazio  
Fredericks, Kim  
Freyer, Oliver  
Fry, Kyla Mari  
Geldenhuys, Dylan Shane  
Gibbs, Richard Peter Gordon  
Gilbey, Oliver James  
Goudvis, Philippa Mary

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Hansen, Elru Samonay  
Heiberg, Chante  
Hendrickse, Kyla Chanice  
Jayakumar, Hrishi  
Joos, Carla Grete  
Kamineth, Hope Sue-Rae Amy  
Klaver, Brandon Johan  
Kleinhans, Klara  
Koegelenberg, Khyla Barbara  
Kotze, Anri  
Kotze, Leon  
Kotze, Soné  
Kutzer, Kristen  
Kuyler, Chante  
Le Roux, Jacques Hendrik  
Lester, Keegan Chad  
Loubser, Carla Maggie  
Magalie, Erin Gray  
Maharaj, Tarushai  
Mampana, Thabang  
Marcus, Cassius Morne  
Marillac, Vershunay Imogene  
Meyer, Catherine Louise  
Meyer, Gustav Ludwig  
Meyer, Sylvia  
Mkandla, Andile  
Mochoele, Kamano Angela  
Modiri, Tshepo  
Mosuwe, Bonolo  
Mpeke, Malibakiso  
Muir, Kirsten  
Mukwevho, Mukovhe Justice  
Ndyafi, Vincent Chimbunde  
Ngozi, Phelokazi Patricia  
Nicolas, Laval Ronald  
Nienaber, Lucas Joseph  
Nieuwoudt, Keana  
Nortje, Michaela Skye  
Ntubuntu, Amila  
O'Brien, Aedan Liam  
Oberholzer, Liana  
Pieterse, Tanya Melita  
Present, Elnorae Antoinette  
Putziger, Aaren Elizabeth  
Rass, Atarah Melanie Rose  
Rockman, Loren Tersia  
Ryklief, Thaakiyah Wentzel  
Sanders, Shanley Frieda  
Saunderson, Dwaine Ruan  
Schnugh, Amoné  
Schutte, Casper Jan Hendrik  
Sekwati, Noko Mahudu  
Shaku, Koketjo Bernard  
Sinandile, Qhama  
Smit, Willem Andries  
Smith, Tazmin Savannah  
Sodi, Koketso Elaine  
Spagnuolo, Gianenzo

Stevenson, Dylan Jay  
Stubbs, Whade Ryan  
Tharman, Mischkaa  
Thiersen, Cornel Francoise  
Thuynsma, Tiffany  
Truter, Denise Tarien  
Van der Merwe, Michelle Pauline  
Van der Merwe, Richardt  
Van Niekerk, Adriaan Pieter  
Van Niekerk, Amari-Carla  
Van Niekerk, Christelle  
Van Reede Van Oudtshoorn, Chanel  
Van Rees, Jordan Hermen  
Van Staden, Alona Nereze  
Van Zyl, Ellenice  
Verwey, Janke  
Wessels, Wilma  
Wienand, Melissa Nicole  
Wilson, Joshua

## ANDER KWALIFIKASIES | OTHER QUALIFICATIONS

### *Fakulteit Opvoedkunde* *Faculty of Education*

#### **Magister in die Wysbegeerte** **Master of Philosophy**

Botha, Jeanette (Higher Education)  
Odendaal, Danell (Education and Training for Lifelong Learning)  
Rolando, Monique Ann (Higher Education)  
Sefalane-nkohla, Puleng Gladys (Higher Education)  
Withering, Monique Danielle (Higher Education)

#### **Magister in die Natuurwetenskappe in Sportwetenskap Cum Laude** **Master of Science in Sport Science Cum Laude**

De Villiers, Nicola Hofmeyr  
White, Ryan Colin

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

Meyer, Debbie Lucille

#### **Magister in die Opvoedkunde in Opvoedkundige Sielkunde Cum Laude** **Master of Education in Educational Psychology Cum Laude**

Cheesman, Jessica

#### **Magister in die Opvoedkunde** **Master of Education**

Basson, Yolanda Natasha (Curriculum Studies)  
Eksteen, Nana (Educational Support)  
Green, Andrew Charles (Curriculum Studies)  
Heynes, Kim (Education Policy Studies)  
Januarie, Venita (Education Policy Studies)  
Smuts, Hortense Frances (Education Policy Studies)  
Spengane, Vuyokazi Gladness (Education Policy Studies)  
Truter, Anlerie Marlese (Education Policy Studies)  
Willers, Hendrik Stephanus (Curriculum Studies)

#### **Honneurs-Baccalaureus in die Opvoedkunde** **Bachelor of Education Honours**

Booyens, Johanna Christina (Education Management)  
De Oliveira-Hamutenya, Miriam Bagaia (Educational Support)  
Kirsten, Jeanne-Miriam (Curriculum Studies)  
Mataruse, Fanuel Nhamo (Curriculum Studies)  
Mokokoana, Sila Sheila (Education Management)

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

Madi, Lwazi Nqa (Performance Sport)

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

Stramis, Desmond John

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

Hendricks, Chanté Nichole  
Loock, Elizabeth Maria  
Martin, Jamie-Lee

#### **Honneurs-Baccalaureus in die Opvoedkunde in Taalonderwys Cum Laude** **Bachelor of Education Honours in Language Education Cum Laude**

Smith, Nadine Jessica

#### **Nagraadse Onderwysertifikaat** **Postgraduate Certificate in Education**

Baron, Kaylene Caroline

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

Fortuin, Charmelle Domecia  
Schmidt, Michaela Ann  
Smalberger, Simone  
Wiehman, Emma Annette

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

Abrahams, Delfton Delano (Intermediary and Senior Phases)  
Adams, Theo (Intermediary and Senior Phases)  
Boer, Damion (Intermediary and Senior Phases)  
Etson, Euwen Lee (Intermediary and Senior Phases)  
Ferreira, Andrea (Foundation Phase)  
Grobler, Winnice (Foundation Phase)  
Malan, Eileen (Intermediary and Senior Phases)  
Nel, Carlisle Kieran Willy (Intermediary and Senior Phases)  
October, Stacey-Lee (Intermediary and Senior Phases)  
Pieterse, Rouxle Carmen (Intermediary and Senior Phases)  
Pittaway, Amy (Intermediary and Senior Phases)  
Rhodes, Charldene Danielle (Intermediary and Senior Phases)  
Tyeku, Zoliwe (Intermediary and Senior Phases)  
Van Wyk, Cornelis Andries (Intermediary and Senior Phases)  
Yobo, Nkosikho (Intermediary and Senior Phases)

## ANDER KWALIFIKASIES | OTHER QUALIFICATIONS

### *Fakulteit Regsgeleerdheid* *Faculty of Law*

#### **Magister in die Regsgeleerdheid**

##### **Master of Laws**

Adams, Liesl Julinda  
Alexander, Aimee Debrah  
Amakali, Katherine Tulonga  
Basson, Inari  
Basson, Noël  
Benans, Nicole Linthea  
Bokelman, Megan  
Chinembiri, Wayne Thembani  
Chuma, Pilirani Roslyn  
Davachi Omoumi, Sahar  
Dlamini, Sunrise Siphesihle  
Hamse, Christiaan Krog  
Hartmann, Charlotte  
Herbst, Hendrik Jacobus  
Kabecha, Universe Landilani  
Mooko, Obakeng Melissa  
Morris, Aidan Justin  
Newdigate, Nicole Ingrid  
Prinsloo, Marthinus Johannes  
Tlali, Dina  
Van de Vyver, Tian  
Van Eeden, Nadine Claire  
Vercuil, Emile

#### **Magister in die Regsgeleerdheid Cum Laude**

##### **Master of Laws Cum Laude**

Butler, Katherine Morag  
Hanekom, Eduhahn Luke  
Heese, Francisca Alida  
Jordan, Christopher Andrew  
Mahomed, Sameera

#### **Baccalaureus in die Regsgeleerdheid**

##### **Bachelor of Laws**

Agulhas, Tiffany Tania  
Botha, Rhyn  
Cloete, Jo-Anne  
Collett, Reece George  
De Beer, Sybrand Johannes Cillié  
De Villiers, Esca  
De Wet, Johannes Gerhard  
Dete, Tapiwa Dawn  
Du Plessis, Telisa  
Els, Kevin  
Fairon, Caroline  
Foxcroft, Michael John  
George, Danielle  
Green, Lizelle Kim  
Hannam, Tana Louise  
Haywood, Lausanne Isabelle  
Henning, Francois De Villiers  
Heuvel, Jonathan David Charles

Hill, Paul John  
Jacobs, Mikayla Cecilia  
Koper, Inge May  
Larter, Samantha Anne  
Levick, Louise Catherine  
Lotz, Alexander Christiaan  
Louw, Liezl  
Lunt, Sarah  
Managa, Khuliso  
Mansoor, Leila  
Mbokazi, Nontobeko Sibongile  
McDonald, Lize-Mari  
McLaughlin, Nicholas Johnathan  
Meiring, Kara  
Momberg, Chad  
Naidoo, Prenola  
Nel, Johan Nicolas  
Nel, Oliver Newton  
Prinsloo, Marli  
Probart, Tyron  
Rossouw, Benji  
Saaiman, Elizabeth  
Scheepers, Johannes Hendrikus  
Steyn, Juan  
Steyn, Liline  
Strydom, Jarryd William  
Van Graan, Moira Elicia Krystal  
Van Straaten, Samantha  
Venter, Carli  
Viviers, Daniel Jan  
Warrin, Michaela  
Wentzel, Lilian Cynthia  
Winshaw, Granville Joshua Gorton  
Wensch, Ashleigh Sydonia

#### **Baccalaureus in die Regsgeleerdheid Cum Laude**

##### **Bachelor of Laws Cum Laude**

Castle, Sara Anne  
Dercksen, Juletha-Marie  
Heydenrych, Ernst  
Van Schalkwyk, Christiaan

#### **Baccalaureus in die Lettere en Wysbegeerte (Regsgeleerdheid)**

##### **Bachelor of Arts (Law)**

Absalom, Inge  
Bagley, Devon  
Basson, Marietjie  
Bosman, Bryce Alexander John  
De Klerk, Damian Jade  
Donnelly, Tessa Jennifer  
Dooge, Dane  
Du Preez, Elmi  
Erasmus, Jana Althea  
Fisher, Lauren Helene

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Frollick, Bradley Timothy  
Hill, Matthew  
Joubert, Josua  
Koster, Jessica-Lee  
Kriel, Leighanne  
Kriel, Megan Mari  
La Grange, Robert Jacques  
Lee, Rachael Rebecca  
Migliore, Raffaella  
Nel, Lize  
Padachey, Denisha  
Padayachee, Jean Meilee  
Preller, Suna Marita  
Riddin, Paige  
Schipper, Esther  
Vlotman, Stephanie Frances  
Wolhuter, Ané

*Fakulteit Krygskunde*  
*Faculty of Military Science*

**Honneurs-Baccalaureus in die Krygskunde**  
**Bachelor of Military Science Honours**

Maluleke, Rirhandzu Violet (Industrial Psychology (Mil))

**Baccalaureus in die Krygskunde**  
**Bachelor of Military Science**

Goliaths, Malony Allison  
Maninjwa, Ziyanda Zelekazi  
Manuel, Jose  
Mdindwa, Jim Khululekile  
Moropane, Seete Eric  
Van Staden, Felicia Laura



