

# DECEMBER 2022

## GRADUATION CEREMONY

### BLOEMFONTEIN CAMPUS



Faculties of The Humanities, Natural and Agricultural Sciences, and Theology and Religion  
Certificates, Bachelor's Degrees, Master's Degrees, and Doctor of Philosophy

**FRIDAY 9 DECEMBER 2022 | 14:30**

**VISION 130**  
*Renew and Reimagine  
towards 2034*



UNIVERSITY OF THE FREE STATE  
UNIVERSITEIT VAN DIE VRYSTAAT  
YUNIVESITHI YA FREISTATA

# PROGRAMME

9 DECEMBER 2022 | 14:30  
BLOEMFONTEIN CAMPUS

**CONSTITUTION OF THE CONGREGATION**

**OFFICIAL WELCOME**

**MUSICAL ITEM**

**PRESENTATION OF CANDIDATES**

**CONGRATULATORY MESSAGE**

**NATIONAL ANTHEM OF SOUTH AFRICA**

**DISSOLUTION OF THE CONGREGATION**

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#### **PLEASE NOTE**

List of candidates receiving degrees, diplomas, and certificates:

Degrees, diplomas, and certificates of candidates who are unable to attend the graduation ceremony will be conferred in absentia.

An\* next to a name indicates that the degree, diploma, or certificate is awarded with distinction.

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By attending the graduation ceremony, you agree that the UFS may use photographs taken by the official photographer in which you appear for marketing purposes.

By attending the graduation ceremony, you agree that the UFS may use video footage taken by the official videographer in which you appear for marketing purposes.

# Nkosi sikelel' iAfrika

## NATIONAL ANTHEM OF SOUTH AFRICA

Maluphakanyisw' uphondo lwayo,  
Yizwa imithandazo yethu,  
Nkosi sikelela, thina lusapho lwayo.  
Morena boloka setjhaba sa heso,  
O fedise dintwa le matshwenyeho,  
O se boloke, O se boloke setjhaba sa heso,  
Setjhaba sa South Afrika -  
South Afrika.  
Uit die blou van onse hemel,  
Uit die diepte van ons see,  
Oor ons ewige gebergtes,  
Waar die kranse antwoord gee,  
Sounds the call to come together,  
And united we shall stand,  
Let us live and strive for freedom,  
In South Africa our land.

In order to maintain the dignity of the ceremony, you are requested to take note of the following:

- Please stand as the procession enters the hall
- Do not move around during the ceremony in order to take photos
- Please refrain from unacceptable actions such as whistling
- Please put your cellphone on silent so as not to disturb the proceedings
- We strive to conduct the ceremonies in a dignified manner
- Please do not leave the hall before the graduation proceedings have been concluded
- Family and friends who are unable to attend may watch the full graduation ceremonies through our livestream link at <http://livestream.ufs.ac.za>.

# *Inspiring excellence, transforming lives through quality, impact, and care.*



## ABOUT THE UFS

The University of the Free State (UFS) has a proud history as one of the oldest institutions of higher education in South Africa. It opened its doors in Bloemfontein in 1904 as the Grey University College, with six students in the Humanities. Today it is a multi-campus institution, with two diverse campuses in Bloemfontein and one in Qwaqwa in the scenic Eastern Free State, accommodating more than 40 000 students in its seven faculties (Economic and Management Sciences, Education, Health Sciences, the Humanities, Law, Natural and Agricultural Sciences, Theology and Religion), with an increasing number of international students and associates, and an ever-widening scope of active involvement in and contribution to its surrounding communities.

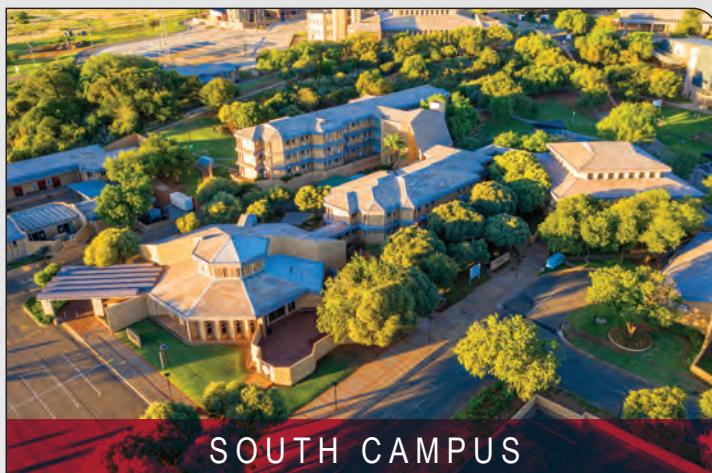
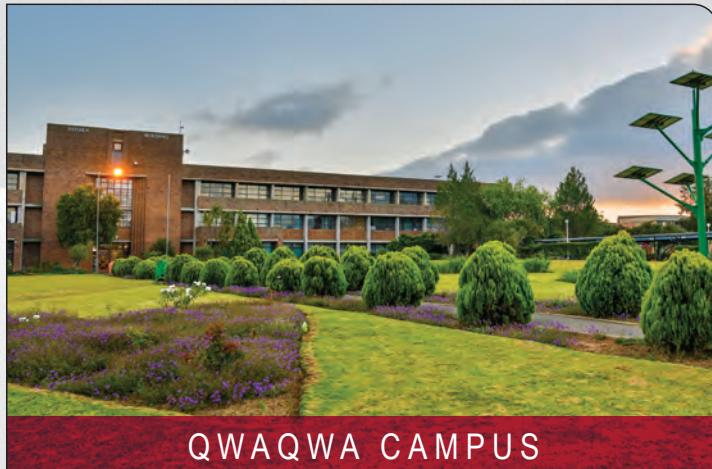
For the past 118 years, the UFS has been delivering quality graduates who have made their mark in various sectors. What sets the institution apart is its holistic student support initiatives, enabling it to achieve some of the highest success rates in the country. Delivering students who are in high demand in the global job market remains a top priority. An established network of industry partners and close collaboration with the public and private sectors, as well as a continuous process of transformation and curriculum renewal, dovetail to produce highly employable graduates.

UFS research efforts are driven by dedicated scholars, some of whom are international leaders in their fields, with industry and social impact and real-world application.

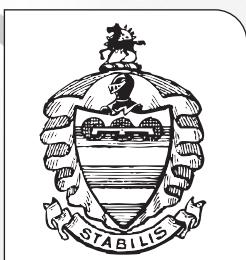
Through the principle of engaged scholarship, the UFS responds to societal needs by using its scholarly and professional expertise with an intentional public purpose and benefit.

The UFS is an institution that goes all out to provide its students and staff with an outstanding university experience. Everything the institution does is rooted in its values of excellence, innovation and impact, accountability, care, social justice, and sustainability.

The UFS aspires to be a research-led, student-centred, and regionally engaged university that contributes to development and social justice through the production of globally competitive graduates and knowledge. Our Vision 130 is an elaboration of our strategic intent to reposition the university for 2034, when we will commemorate our 130th anniversary.



# DEVELOPMENT OF THE UFS CREST OVER MORE THAN A CENTURY



1904

Up to 1935, the same coat of arms was used as the Grey College School.



1935

By 1935, with the name change to University College of the Orange Free State, the coat of arms fell into disuse, especially among students.



1947

In 1947, an agreement between management and students led to the new motto *Per Fidem ad Sapientiam* (Through faith to wisdom).



1950

In 1952, it was changed to *In Deo Sapientiae Lux* (In God is the light of wisdom). The traditional orange, white and blue, linking the UFS to the South African national colours, changed in the late 1990s.

The orange was replaced by cherry red.



UNIVERSITY OF THE FREE STATE  
UNIVERSITEIT VAN DIE VRYSTAAT  
YUNIVESITHI YA FREISTATA

2011

The academic brand - the historic University of the Free State crest that has been the symbol of the university since 1952, has evolved to embrace the aesthetic expectations of the stakeholders.

The shape of the traditional academic shield has been simplified and contemporised. Much of the symbolism of the crest remains intact, acknowledging the location of the UFS brand as one of the country's premier institutions of higher education, with a proud history of academic excellence and an ever-evolving, vibrant culture.



# GRADUATION CEREMONY 2022

## Honorary Awards | Honorary Doctorates

1950	GLP Moerdijk – DLitt (h.c.)		FP Retief – DMed (h.c.)		T (Karel) Schoeman – DLitt (h.c.)
1951	NC Havenga – LLD (h.c.)		JA Stegmann – DCom (h.c.)		YK Seedat – DMed (h.c.)
1952	Thos Blok – DEd (h.c.)	1987	WA Joubert – LLD (h.c.)		MK Seely – DSc (h.c.)
	SHS Rubidge – DSc (h.c.)		B Kok – DPhil (h.c.)		C Seerveld – DPhil (h.c.)
1955	CR Swart – LLD (h.c.)		WP Venter – DCom (h.c.)		F van Z Slabbert – DPhil (h.c.)
	CA v Niekerk – LLD (h.c.)	1988	JJN Cloete – DAdmin (h.c.)		JC Steyn – DLitt (h.c.)
1958	CPB Brink – LLD (h.c.)		FC Fensham – DLitt (h.c.)		PA Verhoef – DTh (h.c.)
	CF Visser – DEd (h.c.)		JW vd Riet – DPhil (h.c.)		L van den Heever – LLD (h.c.)
1959	DB Bosman – DLitt (h.c.)	1989	BJ Meyer – DSc (h.c.)		HA Wessels – LLD (h.c.)
	SP le Roux – DScAgric (h.c.)		N van Uden – PhD (h.c.)	2005	A du P Heyns – DMed (h.c.)
	DF Malherbe – DLitt (h.c.)	1990	MG Corbett – LLD (h.c.)		JJF Durand – DPhil (h.c.)
	GH v Rooyen – MA (h.c.)		JS Rabie – DLitt (h.c.)		JA Groenewald – DSc (h.c.)
1960	SPE Boshoff – DLitt (h.c.)	1991	SS Brand – DCom (h.c.)		WH Neuser – DTh (h.c.)
1961	T Boydell – DPhil (h.c.)		JWL de Villiers – DSc (h.c.)		M Ramos – PhD (h.c.)
1962	ES Botes – DEd (h.c.)		GT Fagan – DArch (h.c.)		SJ Terreblanche – DCom (h.c.)
	PE Rousseau – DSc (h.c.)		JH Hofmeyer – PhD (h.c.)	2006	T Moss – PhD (h.c.)
1963	EH Louw – LLD (h.c.)		E v Heerden – DLitt (h.c.)		PV Cox – PhD (h.c.)
	EN Roberts – DSc (h.c.)	1992	JP Louw – DLitt (h.c.)	2007	BJ (Bannie) Britz – DArch (h.c.)
	JGF (Kaalkop) vd Merwe – DCom (h.c.)		H Olivier – DSc (h.c.)		KPD Maphalla – PhD (h.c.)
	HF Verwoerd – DLitt et Phil (h.c.)	1993	JD Anderson – DMed (h.c.)	2008	D Ferreira – DSc (h.c.)
1966	PSZ Coetzee – DPhiTh (h.c.)		RR Arndt – DSc (h.c.)		JC Loock – PhD (h.c.)
	PJ du Toit – DSc (h.c.)		SJ Naudé – LLD (h.c.)		LTC Harms – LLD (h.c.)
	MS Louw – DCom (h.c.)	1994	JJ Human – DPhil (h.c.)	2010	P Gordhan – PhD (h.c.)
1967	SM Naudé – DSc (h.c.)		JA Myburgh – DMed (h.c.)		BBS Ngubane – PhD (h.c.)
	LC Steyn – LLD (h.c.)		JP vd Walt – DSc (h.c.)		AH Strydom – PhD (h.c.)
	BJ Vorster – LLD (h.c.)	1995	WA Landman – DEd (h.c.)		M Jones – PhD (h.c.)
1968	SJ Naudé – DCom (h.c.)		WL Mouton – DPhil (h.c.)	2011	D Tutu – DTh (h.c.)
1969	CW (Nellie) Swart – DPhil (h.c.)	1996	WDO Marasas – DSc (h.c.)		P Fourie – DLitt (h.c.)
	AJJ Wessels – DCom (h.c.)		NE Wiehahn – LLD (h.c.)		OG Winfrey – DEd (h.c.)
1970	GS Nienaber – DLitt (h.c.)	1997	AP Brink – DLitt (h.c.)		RWM Frater – PhD (h.c.)
	HO Mönnig – DSc (h.c.)		B Hurwitz – DPhil (h.c.)		A Sawyer – DEd (h.c.)
1971	N Diederichs – DCom (h.c.)	1998	FC Müller – DMed (h.c.)	2012	RJ Goldstone – LLD (h.c.)
	RS Verster – DPhil (h.c.)	1999	FM Claerhout – DPhil (h.c.)		ER v Heerden – DLitt (h.c.)
1972	LW Hiemstra – DPhil (h.c.)		JJF Hefer – LLD (h.c.)		M Nussbaum – DLitt (h.c.)
	PJ Meyer – DPhil (h.c.)		S Nigam – DSc (h.c.)		OW Prozesky – MD (h.c.)
1975	PJ Nienaber – DLitt (h.c.)		WL Nkuhlu – DCom (h.c.)		FDJ Brand – LLD (h.c.)
	De la H de Villiers – DScAgric (h.c.)		MA Ramphele – DPhil (h.c.)	2013	ZKG Mda – DLitt (h.c.)
	GJ Stander – DSc (h.c.)		HJO van Heerden – LLD (h.c.)	2014	ML Blum – PhD (h.c.)
1976	AJA Roux – DSc (h.c.)	2000	FJ van der Merwe – PhD (h.c.)		L Mulvey – DLitt (h.c.)
1978	SP Botha – DSc (h.c.)		MH Daling – DCom (h.c.)	2015	L Brahim – DPhil (h.c.)
	EM van Zinderen Bakker – DSc (h.c.)		TN Liversedge – PhD (h.c.)		JM Samuel – DEd (h.c.)
	HB Thom – DEd (h.c.)		I Mahomed – LLD (h.c.)		MA Oduyoye – DTh (h.c.)
1979	FCL Bosman – DPhil (h.c.)	2001	BP Gilbertson – DCom (h.c.)	2016	JD Sacks – DEcon (h.c.)
	G Cronjé – DSocSc (h.c.)		NR Mandela – LLD (h.c.)		RJ Khoza – DEcon (h.c.)
	CJF Human – DCom (h.c.)		EC Taglauer – DSc (h.c.)		TA Manuel – DEcon (h.c.)
1980	G Boonzaier – DPhil (h.c.)	2002	BH Meyer – PhD (h.c.)		M du Preez – PhD (h.c.)
1981	PW Botha – DPhil (h.c.)		BAK Rider – LLD (h.c.)		J Samoff – DPhil (h.c.)
	B Human – DCom (h.c.)		CF Slabber – PhD (h.c.)		F Haffajee – PhD (h.c.)
	SG Shuttleworth – DSc (h.c.)	2003	JM Stetar – DEd (h.c.)	2017	PH Holloway – DSc (h.c.)
1982	BLS Franklin – DPhil (h.c.)		EWA de Corte – DEd (h.c.)		M Botha – LLD (h.c.)
	GvN Viljoen – DEd (h.c.)		HA Serebro – DPhil (h.c.)	2019	BL Fanaroff – DSc (h.c.)
1983	L Luyt – DCom (h.c.)		AG Sykes – DSc (h.c.)		J Mofokeng wa Makhetha – DLitt (h.c.)
	SF Zaaiman – DPhil (h.c.)	2004	S Badat – DPhil (h.c.)		MB Molemela – LLD (h.c.)
1984	HS Steyn – DSc (h.c.)		R Bringle – DPhil (h.c.)	2021	ZM Yacoob – LLD (h.c.)
	FR Tomlinson – DScAgric (h.c.)		J de Wet – DMus (h.c.)		SM Pitanya – DPhil (h.c.)
	JH vd Berg – DMed (h.c.)		CF Fauconnier – DSc (h.c.)		RJ van Niekerk – DLitt (h.c.)
1985	L Alberts – DSc (h.c.)		GJ Gerwel – DPhil (h.c.)	2022	WK Byanyima – PhD (h.c.)
	GG Cillie – DPhil (h.c.)		WD Jonker – DTh (h.c.)		DM Davis – LLD (h.c.)
	SPD le Roux – DLitt (h.c.)		A Krog – DLitt (h.c.)		DE Mosenke – LLD (h.c.)
	A Polson – DPhilMed (h.c.)		K Mokhele – DPhil (h.c.)		AL Sachs – LLD (h.c.)
1986	J du P Scholtz – DPhil (h.c.)		CJC Nel (Postuum) – PhD (h.c.)		MJ Wingfield – DSc (h.c.)
	S Grové – DMus (h.c.)		L Quayle – DMus (h.c.)		

## Shields of Honour, Council and Chancellor's Medals

1994	Prof FO Müller (Shield of Honour)	2003	Prof HC Janse van Rensburg (Council Medal)
	RE Schoombie (Shield of Honour)	2008	Prof SA Petersen (Shield of Honour)
1995	Prof FO Müller (Chancellor's Medal)	2009	Ludo Helsen (Shield of Honour)
	RE Schoombie (Chancellor's Medal)	2010	Prof JU Grobelaar (Council Medal)
1996	Prof S Mittman (Shield of Honour)	2014	Mrs AM Dippenaar (Chancellor's Medal)
1997	Prof M Jansens (Shield of Honour)	2014	Dr H Verster (Chancellor's Medal)
1998	Prof CJC Nel (Chancellor's Medal)	2014	Mr JL Pretorius (Chancellor's Medal)
	Prof C Swanepoel (Chancellor's Medal)	2016	Mr AD Osler (Chancellor's Medal)
1999	WJ (Hansie) Cronje (Shield of Honour)		Ms M van der Merwe (Chancellor's Medal)
	Prof David Justice (Shield of Honour)	2017	Ms JS Isaacs (Chancellor's Medal)
2000	Prof P Rosseel (Shield of Honour)	2019	Mr JF de Villiers (Chancellor's Medal)
	Prof MJ Viljoen (Chancellor's Medal)		Ms EM Oosthuizen (Council Medal)
2001	Prof PC Potgieter (Chancellor's Medal)	2022	Dr N Pearce (Chancellor's Medal)
2002	T Moss (Shield of Honour)		Mr N Janse van Rensburg (Council Medal)
	Prof CD Roode (Chancellor's Medal)		

# MESSAGE FROM THE RECTOR AND VICE-CHANCELLOR | PROF FW PETERSEN

**W**elcome to the graduation ceremony of the University of the Free State (UFS).

Today is a special day indeed. Few events and occasions hold as much significance as your graduation. This day is just as important for those who have supported you along the way. Many of you had to overcome a lot during your journey to get here today. Many of you are the first in your families to reach this milestone. So, even in the midst of the disruptive past two years, you have earned this moment and you should be extremely proud. Always acknowledge and recognise the significance of your achievements as you transition from being a University of the Free State (UFS) student to a UFS graduate.

Graduands, you have had the honour of studying at an institution that commands a track record that is on par with well-regarded national peers, as reflected in the 2023 Times Higher Education World University and Impact Rankings. Sufficient evidence indicates that higher education has the potential to function as an agent of change and a means of serving the greater good. Although the mission of our university has always been to equip you with knowledge and skills needed to make a difference in your field of study, we are also mindful that values are as important for you to make a difference in your communities.

The UFS places great emphasis on ensuring that students and staff have an outstanding university experience. In our pursuit of excellence, we are proud that our environment is conducive for intellect and knowledge to flourish. As such, our values of excellence, innovation and impact, accountability, care, social justice, and sustainability are embedded in all activities across the institution.

Graduands, irrespective of what you undertake in the future, remember to pursue your passion, and continuously have the desire to make a difference in the lives of others. Surround yourself with real people in real communities, while inculcating kindness, empathy, passion, and awareness of the real issues. If you want to tackle the unfinished goals of this country and create a better world – build bridges, remain morally astute, and grow your coalitions. Life can be challenging if you are on your own – however, great results can be achieved if you work as a collective.

It is up to you to align yourself with those who have a common cause, heal the divisions that keep us separated, and carry along those who have been left out and are struggling.

Congratulations to all our graduands. May you have continued success in all your endeavours!

**W**elkom by die Universiteit van die Vrystaat se gradeplegtigheid.

Vandag is voorwaar 'n spesiale dag. Min gebeurtenisse en geleenthede het soveel betekenis as 'n mens se gradeplegtigheid. Hierdie dag is net so belangrik vir diegene wat julle langs die pad ondersteun het. Baie van julle moes talle uitdagings te bowe kom tydens julle reis om vandag hier te wees. Baie van julle is die eerste in julle gesinne om hierdie mylpaal te bereik. So, selfs te midde van die ontwrigting van die afgelope twee jaar, het julle hierdie oomblik verdien en kan julle baie trots wees.

Erken en herken altyd die belangrikheid van jou prestasie waar jy van 'n student van die Universiteit van die Vrystaat (UV) beweeg na 'n UV-graduardeerde.

Gegradeerde, julle het die eer gehad om aan 'n instelling te studeer wat 'n prestasiekonditie het wat gelykstaande is aan welbekende nasionale eweknieë, soos weerspieël in die 2023 Times Higher Education World University en Impact-ranglys. Talle bewyse dui daarop dat hoër onderwys die potensiaal het om te dien. Alhoewel die missie van ons universiteit nog altyd was om julle toe te rus met kennis en vaardighede wat nodig is om 'n verskil in julle studieveld te maak, is ons ook bedag daarop dat waardes vir julle net so belangrik is om 'n verskil in julle gemeenskappe te maak.

Die UV plaas groot klem daarop om te verseker dat studente en personeel 'n voorstreklike universiteitservaring het. In ons strewe na uitnemendheid is ons trots dat ons omgewing bevorderlik is vir intellek en kennis om te floreer. As sodanig is ons waardes van uitnemendheid, innovasie en impak, aanspreeklikheid, omgee, sosiale geregtigheid en volhoubaarheid ingebied in alle aktiwiteite oor die instelling heen.

Gegradeerde, ongeag wat julle in die toekoms aanpak, onthou om julle passie na te streef en behou die begeerte om voortdurend 'n verskil in ander se lewens te maak. Omring julkself met regte mense in regte gemeenskappe, terwyl julle welwillendheid, empatie, passie en bewustheid van werklike kwessies inskerp.



As julle die onvoltooide doelwitte van hierdie land wil aanpak en 'n beter wêreld wil skep – bou brûe, bly moreel skerpsinnig, en laat julle koalisies groei. Die lewe kan uitdagend wees as 'n mens op jou eie is – goeie resultate kan egter behaal word as julle as 'n groep saamwerk.

Die is julle verantwoordelikheid om julkself in ooreenstemming te bring met diegene wat 'n gemeenskaplike saak het, die verdeeldheid te genes wat ons verdeeld hou, en om diegene wat uitgelaat is en sukkel, met julle saam te neem.

Baie geluk aan al ons graduandi. Mag julle voortgesette sukses in al julle ondernemings behaal!

**R**e a le amohela moketeng wa kabo ya dikgau wa University of the Free State (UFS).

Letsatsi lena ke le kgethehileng ka nnate. Ke diketsahalo tse mmalwa haholo tse bohlokwa jwalo ka ho abelwa kgau ya yunivesithi. Letsatsi lena le bohlokwa hape le ho batho ba ileng ba le tshehetsha leetong la lona. Ba bangata ba lona le ile la hlola maima a mangata leetong la lona ho fihla mona kajeno. Ba bangata ba lona ke lona ba pele malapeng a lona ho fihla seholholo sena sa katileho. Ka hoo, esita le hara dilemo tse pedi tse fetileng tse bileng le tshitiso e kgolo, le fihliie motsotsong ona mme re motlotlo ka lona haholo.

Ka dinako tsohle amohelang le ho lemotha bohlokwa ba dintla tseo le di fihleletseng ha jwale le tloha boemong ba ho ba moithuti mona University of the Free State (UFS) ho fetela boemong ba ho ba graduate ya UFS.

Baithuti ba seng ba tla abelwa dikgau tsa yunivesithi, le bile le tlota ya ho ithuta setheong sa thuto se nang le nalane en ntle e kgemang le bomphato ba yona ba hlomphehang naheng, jwalo ka ha ho boletswe ho 2023 Times Higher Education World University and Impact Rankings. Ho na le bopaki bo hlwellanang hodimo bo bontshang hore thuto e phahameng e na le monyetla wa ho sebetsa jwalo ka kofuto e hlasisang phetoho le mokgwa o hlasisang melemo e meholo ka ho fetisa. Le hoja mishini ya yunivesithi ya rona ka dinako tsohle e bile ho le hlomella ka tsebo le bogkoni bo hlokalang ho etsa phetoho dithutong, re boela re lemotha hore dintlo tsa boleng di bohlokwa ho etsa phapang metseng ya lona.

UFS e kgothaletsa haholo ho etsa bonneta ba hore baithuti le moifo ba na le boiphihlelo bo hlheletseng ka mahetla ba yunivesithi. Maikeemisetong a rona a ho hahamalla diphihlelo tse ipabolang, re motlotlo hore tikolohya rona ke e loketseng bakeng sa fana ka bohlale le tsebo ho atleha. Ka lebaka lena, makgabane a rona bakeng sa diphihlelo tse ipabolang, mehopolole e meijha le tshusumetso e ntle, boikarabelo, tlhokomelo, le toka e se nang leeme setjhabeng, le ho tswella ke dintlo tse bopeletseng mesebetsing yohle ya setheo sena sa thuto.

Baithuti ba seng ba tla abelwa dikgau tsa yunivesithi, ho sa natswe hore na le tla etsa eng nakong e tleng, hopolang ho phehella ditabatabelo tsa lona ka tjheheso, mme le tswele pele ho ba le takatso ya ho etsa phapang bophelong ba batho ba bang. Etsang hore le dikadiketswe ke batho ba sebela metseng ya sebela, ho le ntse le ruta le ho jala mosa, kutlwelobohloko, tjantjello, le temoho ya ditaba tsa sebela. Haeba le batla ho sebetsana le dipakane tse sa getwang le ho theha lefatse le betere – hahang marogo, dulang le le bohlale, le theha maghama a lona a ditshebedisano. Bophelo e ka ba bo phephetsang haeba o sebetsa o le mong – le ha ho le jwalo, diphetho tse babatsehang di ka fihlellwa ka tshebedisano le ho ba ngatana-nngwe.

Dintho di mahetleng a lona ho iphaphatha le batho ba nang le dipheo tse tshwanang, ho kwala dikgeo tse re arohanyang, le ho jara batho ba ileng ba siuwa mora le ba nang le mathata a ba sitisang.

Re thoholetsa baithuti kaofela ba rona ba seng ba tla abelwa dikgau tsa bona tsa yunivesithi. E se ka le ka ba le katileho e tswelang pele mekutung ya rona kaofela!

# UFS

## VISION:

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The UFS aspires to be a research-led, student-centred, and regionally engaged university that contributes to development and social justice through the production of globally competitive graduates and knowledge.

## MISSION:

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The university's ultimate goal is to impart and generate new knowledge that impactfully supports societal development.

## VALUES:

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The UFS subscribes to a set of values, explicated below, which shape and inform our culture and provide a framework for our actions and decisions. Our values are realised through the conduct of the wider university community: excellence, innovation and impact, accountability, care, social justice, and sustainability.

# OFFICE-BEARERS



**CHANCELLOR**  
Prof BF Mohale  
Professor of Practice (JBS)



**RECTOR AND  
VICE-CHANCELLOR**  
Prof FW Petersen  
PhD (SU)



**CHAIR OF COUNCIL**  
Mr D Noko  
HND Mechanical  
Engineering (UJ)



**VICE-RECTOR:  
OPERATIONS**  
Prof P Naidoo  
PhD (VISTA)



**VICE-RECTOR:  
INSTITUTIONAL CHANGE,  
STRATEGIC PARTNERSHIP,  
AND SOCIETAL IMPACT**  
Dr M Qhobela  
PhD (KSU)



**VICE-RECTOR:  
ACADEMIC**  
Dr EL van Staden  
DPhil (UJ)



**VICE-RECTOR:  
RESEARCH AND  
INTERNATIONALISATION**  
Prof RC Witthuhn  
PhD (UFS)



**EXECUTIVE DIRECTOR:  
STUDENT AFFAIRS**  
Mr T Hlasho  
MPhil (NMU)



**REGISTRAR:**  
Mr NN Ntsababa  
MPA (NMU)



**CAMPUS PRINCIPAL:  
QWAQWA CAMPUS**  
Dr M Mandew  
PhD (UN)



**PRESIDENT OF  
CONVOCATION**  
Dr PD du Toit  
PhD (UFS)



**PRESIDENT:  
INSTITUTIONAL STUDENT  
REPRESENTATIVE COUNCIL**  
Ledile Tshepang Bambo

# DEANS



**DEAN:**  
**ECONOMIC AND  
MANAGEMENT SCIENCES**  
Prof P Burger  
PhD in Economics (UFS)



**DEAN:**  
**EDUCATION**  
Prof LC Jita  
PhD (MSU)



**DEAN:**  
**HEALTH SCIENCES**  
Prof GJ van Zyl  
PhD (UFS)



**DEAN:**  
**THE HUMANITIES**  
Prof H Hudson  
PhD (UFS)



**DEAN:**  
**LAW**  
Prof JC Mubangizi  
LLD (UDW)



**DEAN:**  
**NATURAL AND  
AGRICULTURAL SCIENCES**  
Prof PD Vermeulen  
PhD (UFS)



**DEAN:**  
**THEOLOGY AND RELIGION**  
Prof RS Letšosa  
PhD (PU/CHE)

# GUEST SPEAKER

## MR RYLAND FISHER



**R**yland Fisher has more than 40 years of experience in the media industry as an editor, journalist, columnist, author, and media executive. Early in his career, he was one of the pioneers of alternative community journalism in South Africa.

His books include *The South Africa We Want To Live In* (published 2019), *Making the Media Work for You* (2002), *Race* (2007), and *The Atlantic Philanthropies* (2018). He has contributed chapters to several other books.

Fisher was convener of the judging panel for the Vodacom Journalist of the Year Awards for five years and has served on the judging panel for the Standard Bank Sikuville Awards since 2017.

He was appointed to the Council of the University of the Free State in 2016, and his second term expires in March 2023. He is deputy chairperson of the Council's Human Resources Committee and deputy chairperson of the Remuneration Committee.

He was also previously Head of Journalism at Peninsula Technikon (now Cape Peninsula University of Technology). He has lectured on journalism or race at, among others, the University of Cape Town, the Institute for the Advancement of Journalism in Johannesburg, Emory University in Atlanta, Morehouse College in Atlanta, Ohio University in Athens, Ohio, Rhodes University, and at the Initiatives of Change Foundation in Caux, Switzerland.

In 2003, Fisher was a Rockefeller Research Fellow at the Centre for the Study of Public Scholarship at Emory University in Atlanta, Georgia. He participated in an executive leadership course at the Harvard Business School in 1996 and an advanced journalism course at the University of Missouri in 1990. He was awarded a fellowship at the Stellenbosch Institute for Advanced Study (STIAS) in 2010 and 2013. Fisher was appointed as a Fellow of the Frederik Van Zyl Slabbert Institute for Student Leadership Development at Stellenbosch University in August 2013.



**DEAN |**  
**PROF H HUDSON**

## CERTIFICATES

### HIGHER CERTIFICATE IN HUMANITIES COMMUNICATION STUDIES AND ANTHROPOLOGY

BOLE, Motshodiemang Julia

MABASO, Siyabonga

MOHOKARE, Karabo Vanessa

ZIQUBU, Sinethemba

### HIGHER CERTIFICATE IN HUMANITIES COMMUNICATION STUDIES AND PSYCHOLOGY

BUYAMBO, Sibongiseni

CHABANE, Boitumelo Sesi

DAVID, Sinovuyo

DHLAMINI, Thandi

MASIPA, Nthabiseng

MOLELEKO, Mamatshediso  
Rebecca

MSIBI, Disone Mosuwe

NGQIKANA, Thembeka

NHLAPO, Nombulelo Gloria

NTSOEU, Tshegofatso Precious

NZIMANDE, Vuyiswa

RAMPHORE, Tankiso Edmond

SEKHOTO, Pontsho Portia

SELEPE, Neo Theron

SINDANA, Cyntia Lebogang

SKHOSANA, Lesego Notemba

### HIGHER CERTIFICATE IN HUMANITIES COMMUNICATION STUDIES AND SOCIOLOGY

BUTHELEZI, Sibongile Hilda

DHLAMINI, Nonkanyiso  
Nonkululeko

DLAMINI, Thenjiwe Vinoliya

FALLA, Melta Moleboheng

KGABELE, Katileho Constance

MAKUBALO, Sibongile

MAZIBUKO, Manelisi

MBATHA, Nelisiwe Sibongile

MHLONGO, Lungile

MOLEFE, Sophy Tiisetso

STOFILE, Kananelo Mojalefa  
Siphosihle

### HIGHER CERTIFICATE IN HUMANITIES POLITICAL SCIENCE AND PSYCHOLOGY

MOLEFE, Thabo Lawrence

SEIPETLHO, Refiloe Katileho

### HIGHER CERTIFICATE IN HUMANITIES POLITICAL SCIENCE AND SOCIOLOGY

GAMA, Nhlakanipho Xolani

KAWANA, Sibahle Natasha

### HIGHER CERTIFICATE IN HUMANITIES PSYCHOLOGY AND SOCIOLOGY

NTETA, Thabo Edward

## DIPLOMAS

### DIPLOMA IN MUSIC

BECK, Bradley Benedict

DIBA, Ipeleng Karabelo\*

### BACHELOR'S DEGREES

#### BACHELOR OF ARTS

MADI, Thabang Praisegod  
Wandile

MAKHUBO, Sindiswa

MASUKULA, Motshedisi

MATHEBULA, Given

MMOLEDI, Thandeka

MOLEFE, Xiribyana Otsile

SHABALALA, Londiwe

SHABALALA, Lungelo Fortunate

TSOTETSI, Lebo

VILAKAZI, Nduduzo Request

ZWANE, Nonjabulo Thembani

#### BACHELOR OF ARTS IN COMMUNICATION STUDIES

KHOELE, Relebohile Precious

LENONO, Tankiso Michael

MKHASAKHASA, Ayola  
Nombuyiselo

MZINYELWA, Lihle

NGWENYA, Tiisetso Mmabogosi  
Yaone

NKOSI, Sibusisiwe Neliswa Mabel



PHEME, Mankuroane Lehumo  
RADEBE, Bongani  
RAMODIKE, Karabo Masilo  
SHABANGU, Vile Angel  
STEYNBERG, Shandré Chantell

**BACHELOR OF ARTS IN DRAMA AND THEATRE ARTS**

ENSLIN, Jaco

**BACHELOR OF ARTS IN GOVERNANCE AND POLITICAL TRANSFORMATION**

BUELLA, Megan Nomboniso  
DIENG, Promise Icha  
DOLO, Maphutha Stephen  
LECHOLO, Thapelo  
LEOTLELA, Mpho Portia  
MBETHE, Nomkhosi Alucia  
MNGCANGCA, Kanyisile  
MOTSAPI, Mohato Katleho  
SIYALI, Lulama  
TSHANGANA, Milani

**BACHELOR OF ARTS IN INTEGRATED ORGANISATIONAL COMMUNICATION**

MFeka, Makabongwe Nhlanhla  
PROPHY, Rebaone Precious  
THEJANE, Azaniah Grace

**BACHELOR OF ARTS IN JOURNALISM**

KGWEDI, Michell Tebogo

MOFOKENG, Moipone Mitchell  
MOHALE, Mampho Joyce

RANKHALA, Rethabile Ntshediseng

**BACHELOR OF ARTS IN LANGUAGE PRACTICE**

MOKOENA, Naledi Brijett

**BACHELOR OF ARTS MAJORING IN COMMUNICATION SCIENCE AND PSYCHOLOGY**

BUTLER, Lihet  
DIKO, Vuyisani  
FILLIS, Allan-Junior  
HLONGWANE, Siyabonga Junior  
LEMEKOANA, Mpho Ngwanamogale  
LETLHOGILE, Pelonomi Precious  
THOLE, Lopang Ariel

**BACHELOR OF ARTS MAJORING IN HISTORY AND ENGLISH**

BARA, Lulutho  
MAPHALALA, Sibonisile  
MAVUSO, Thembelani Makepeace

**BACHELOR OF ARTS MAJORING IN PSYCHOLOGY AND ENGLISH**

BUTHELEZI, Nothando Promise Simphiwe  
MAZWI, Cwayita  
MPHELA, Kefilwe Hilda

SKRENYA, Angelica Gcina Ziphelele

**BACHELOR OF ARTS MAJORING IN PSYCHOLOGY AND SESOTHO**

SENYENYANE, Karabo Bridgette

**BACHELOR OF SOCIAL SCIENCE**

DLADLA, Mantwa Fegi  
FINGER, Palesa

KHOARAI, Khauhelo Peggy

MANZI, Tshediso Daniel

MKHIZE, Neli

MOLOI, Tlotliso Tseko

MTHIMKULU, Bonisiwe

NTHATISI, Letshego

SIBEKO, Thabo Frans

**BACHELOR OF SOCIAL SCIENCE MAJORING IN BUSINESS MANAGEMENT AND POLITICAL SCIENCE**

BANJATWA, Litha Lynetie

BOLSIEK, Vuyelwa Beloved

MOKOBOCHO, Thato

**BACHELOR OF SOCIAL SCIENCE MAJORING IN BUSINESS MANAGEMENT AND PSYCHOLOGY**

BOTHA, Alida Johanna

MARTINS, Ronnie Junior

MELATO, Mmusi Stephen



MJENXANE, Amanda Carol	SEEKU, Binny Rosie	MOJAKI, Ntletse Theresia
MOLEHE, Sebongile	SEPTEMBER, Shivanni Chylonique	SIWELO, Ayanda Venessa
NORVAL, Hunter Joan	SHABANGU, Zamabhele Naledi	<b>BACHELOR OF SOCIAL SCIENCE MAJORING IN POLITICAL SCIENCE AND SOCIOLOGY</b>
PHUTHI, Refiloe Boledi	SOZOYI, Vuyokazi	MAJOZI, Siyanda Msawakhe Thandukulunga
SIDLAYI, Mbalentle	TOM, Uyanda Kuselwa	<b>BACHELOR OF SOCIAL SCIENCE MAJORING IN INDUSTRIAL PSYCHOLOGY AND POLITICAL SCIENCE</b>
SMITH, Charise	<b>BACHELOR OF SOCIAL SCIENCE MAJORING IN INDUSTRIAL PSYCHOLOGY AND PSYCHOLOGY</b>	ADONIS, Aviwe
WIJBURG, Christian Carel	MOLALE, Sephiri	KHOARAI, Khauhelo Peggy
<b>BACHELOR OF SOCIAL SCIENCE MAJORING IN BUSINESS MANAGEMENT AND SOCIOLOGY</b>	LEKGARI, Olivia	KOTZÉ, Julene Meagon
KGUTO, Daniel Tankiso	LUDIDI, Lilitha	LABANS, Damian Junaid
<b>BACHELOR OF SOCIAL SCIENCE MAJORING IN CRIMINOLOGY AND PSYCHOLOGY</b>	MAGUDUMANA, Azuzile	MAHLAKU, Lihle Princes
JELE, Sibusiso Gift Immaculate	NXUMALO, Wendy	MAKOFANE, Fortune
KHAZAMULA, Orleans	PETERSON, Danielle Caylon	MELESI, Phemelo
KHOMOHAKA, Thabo Andrew	WILLEMSE, Linn Lee	MODUANE, Lemogang Refiloe
KULA, Tshiamo	<b>BACHELOR OF SOCIAL SCIENCE MAJORING IN INDUSTRIAL PSYCHOLOGY AND SOCIOLOGY</b>	NAARE, Naleli
LETSHABO, Lesley	DIKGALE, Mpendulo Itumeleng	NDARA, Buyelwa Roseline
LONAKE, Keabetswe Prudence	DIKGALE, Tekano Brilliance	SILEVU, Luandile Yolanda
MAHURA, Thembu-Mdali Alexis	<b>BACHELOR OF SOCIAL SCIENCE MAJORING IN POLITICAL SCIENCE AND CRIMINOLOGY</b>	WITBOOI, Andiswa
MAKHANYA, Rejoice	MDLETSHE, Bheki Celumusa	<b>BACHELOR OF SOCIAL SCIENCE MAJORING IN SOCIOLOGY AND CRIMINOLOGY</b>
MAPONGA, Natasha		MASHABATHAKGA, Avril Tiisetso
MDINGI, Hlonela		MOTLOUNG, Tumelo Daniel
MEREKO, Moleboheng Naomi		
MKHIZE, Lungelo Melde		
MOFOKENG, Rehauhetswe Preciosity		
NASE, Anelisiwe		
NDLOVU, Kgomotso Emily		
SEBOKA, Given Tsepo		



## BACHELOR OF SOCIAL SCIENCES IN HUMAN AND SOCIETAL DYNAMICS

NDUNA, Kearabetswe Matshediso

## POSTGRADUATE DIPLOMAS

### POSTGRADUATE DIPLOMA IN GOVERNANCE AND POLITICAL TRANSFORMATION

MTHOMBENI, Precious

## BACHELOR HONOURS DEGREES

### BACHELOR OF ARTS HONOURS WITH SPECIALISATION IN ANTHROPOLOGY

METTLER, Roze Shaquillean Danika

### BACHELOR OF ARTS HONOURS WITH SPECIALISATION IN PHILOSOPHY

PRINS, Desireé Diane\*

### BACHELOR OF SOCIAL SCIENCE HONOURS WITH SPECIALISATION IN ANTHROPOLOGY

MOKETE, Manakeli Gontse

## MASTER'S DEGREES

### MASTER OF ARTS IN GOVERNANCE AND POLITICAL TRANSFORMATION

MAGWANDANA, Fihlekile Wilson

### MASTER OF ARTS WITH SPECIALISATION IN ANTHROPOLOGY

HAUPT, Naomi Elizabeth\*

**Dissertation Title:** THE MAKINGS OF FIELD RANGERS IN LIMPOPO PROVINCE - AN EXPLORATORY ETHNO-PERCEPTIVE STUDY

**Supervisor:** Prof RJ Gordon

**Co-Supervisor:** Dr P Esterhuyse, Prof SA Marks

### MASTER OF ARTS WITH SPECIALISATION IN HISTORY

NDLOVU, Ayanda Sphelele

**Dissertation Title:** THE PHILOSOPHICAL CONTRIBUTIONS OF ROBERT SOBUKWE AND STEVE BIKO TO THE LIBERATION STRUGGLE IN SOUTH AFRICA

**Supervisor:** Prof CM Twala

**Co-Supervisor:** Prof ND Roos

### MASTER OF ARTS WITH SPECIALISATION IN POLITICAL SCIENCE

NGCAYISA, Lumanyano

**Dissertation Title:** DEVELOPMENTAL AUTHORITARIANISM IN AFRICA: THE CASES OF ETHIOPIA, RWANDA, AND UGANDA

**Supervisor:** Dr PA Schoeman

### MASTER OF SOCIAL SCIENCE IN CLINICAL PSYCHOLOGY

MASINGA, Tutula Zinzi

MOAKAMELA, Precious Lucille

SCHOLTZ, Elsabe

SEGAL, Megan\*

### MASTER OF SOCIAL SCIENCE WITH SPECIALISATION IN CRIMINOLOGY

BARNARD, Liandi

**Dissertation Title:** A SOCIO-LEGAL EXPLORATION OF THE APPLICATION OF THE CORRECTIONAL SUPERVISION AND PAROLE PROCESS IN SOUTH AFRICA

**Supervisor:** Dr M Cronje

### MASTER OF SOCIAL SCIENCE WITH SPECIALISATION IN SOCIOLOGY

LANGENHOVEN, Ruben

**Dissertation Title:** THE UBIQUITY OF POWER IN THE EMERGENCE OF COMMUNITY HEALTH WORKERS: NARRATIVES FROM LAY HEALTH WORKERS IN THE FREE STATE, SOUTH AFRICA

**Supervisor:** Prof K De Wet



## MASTER OF SOCIAL SCIENCE IN COUNSELLING PSYCHOLOGY

DUBA, Siyanqoba Charity  
Makhosazana

MAOELA, Lerato Angela

VAN REENEN, Karla

## DOCTORAL DEGREES

### DOCTOR OF PHILOSOPHY WITH SPECIALISATION IN AFRICA STUDIES

**MACHINGA**, Priscillah

Priscillah Machinga was born on 16 March 1977, in Zimbabwe. She completed her Ordinary Level at Holy Rosary Secondary School in 1994 and Advanced Level at St Alberts' High School in 1996. She obtained a Bachelor of Arts Honours Degree in Economic History in 2001 and Master of Arts Degree in African Economic History in 2004, at the University of Zimbabwe, thereafter, lecturing there, in the Economic History Department until 2010. In 2018, she enrolled for a PhD in 2 . Africa Studies, with the International Studies Group, at the University of the Free State, where she currently holds a Postdoctoral Fellowship post.

With her thesis, titled: '**A HISTORY OF MATERNAL AND INFANT HEALTH PRACTICES IN NORTHERN ZIMBABWE, C.1880S -1990S**', the candidate makes two distinct contributions in Zimbabwe's medical historiography. Firstly, it breaks new ground as an in-depth historical study of African maternal and infant health practices, and secondly, it brings indigenous knowledge and medicine to the core of academic inquiry in Zimbabwean historical studies. It argues that, although African maternal and infant health practices underwent a complex process of transformation after colonization, the relevance of indigenous knowledge also persisted. Utilizing oral, archival and secondary sources, and a case study of present day Mashonaland Region in northern Zimbabwe (which has historically largely accommodated the indigenous Budya, Zezuru and Korekore people), and taking a social history and qualitative approach, her study spans three historical epochs (precolonial, colonial and postcolonial) exploring practices surrounding, for instance, childbirth, antenatal, neonatal and postnatal care, contraception and infant health.

**Promoter:** Dr C Masakure

**Co-Promoters:** Dr AR Amaral, Dr K Horn, Dr K Manamere

### DOCTOR OF PHILOSOPHY WITH SPECIALISATION IN AFRIKAANS AND DUTCH

**ELLIS**, Carla

Carla Ellis was born in Port Elizabeth on 9 December 1986. She received her secondary education in George, where she matriculated at Outeniqua High School in 2005. She obtained the degree BA (Language and Culture) in 2008 at Stellenbosch University, the degree Master of Arts in General Linguistics in 2011 at Stellenbosch University and the PhD in Afrikaans and Dutch in 2022 at the University of the Free State. She started her career as lecturer in Bloemfontein in 2014 when she was appointed in the Department Afrikaans and Dutch, German and French at the University of the Free State.



With her thesis, titled: **'N SOSIOLINGUISTIESE ONDERSOEK NA DIE GEBRUIK VAN OOM EN TANNIE AS AANSPREEKVORME ONDER AFRIKAANSSPREKENDES IN BLOEMFONTEIN EN GEORGE**, the candidate contributes to the research pertaining to the typically Afrikaans forms of address "oom" en "tannie" and variants thereof. This is the most comprehensive study on this topic in Afrikaans yet. Data were collected by means of questionnaires, interviews, focus groups, systematic observation as well as social media – 2 600 speakers of Afrikaans took part. An important contribution is the identification of sociolinguistic variables as determining factors in the use of "oom" and "tannie". From the data it is evident that age, respect, familiarity, social class and status serve as determining factors, followed by occupation, contextual situation and social convention. The age difference between speaker and addressee that serves as the accepted norm for the use of "oom" and "tannie" remains to be ten years and older.

**Promoter:** Prof HJ Bosman

**Co-Promoter:** Dr AS de Wet

#### DOCTOR OF PHILOSOPHY WITH SPECIALISATION IN CLASSICAL LANGUAGES

**MACHIN, Annéli**

Annéli Machin was born in Durban on 24 September 1973 and matriculated in Kimberley in 1991. She obtained the following qualifications at the University of the Free State: B.A. (Human Movement Science) (1994), \*Higher Education Diploma (1996), \*Diploma in Specialised Education (1997), \*\*Baccalaureus Theologiae (2006), \*\*B.A. Honours (Language Studies: Greek) (2007) and \*\*Magister Artium Higher Education Studies & Greek (2011) [\*with distinction; \*\*received Dean's medal]. She has been a Greek lecturer at the University of the Free State since 2009 and is currently part of the Department of Old and New Testament Studies in the Faculty of Theology and Religion.

With her thesis, titled: **A TEXT-CENTRED RHETORICAL ANALYSIS OF JOHN CHRYSOSTOM'S DE INANI GLORIA ET DE EDUCANDIS LIBERIS**, the candidate makes a novel contribution to the research on one of the most influential works by this Church Father. This important work by Chrysostom has been studied from various different angles, but thus far no proper rhetorical analysis of it has appeared. The candidate fills this void by means of a systematic and thorough text-centred rhetorical analysis. She offers a detailed rhetorical analysis of pericopes of the writing and uses the results as a basis for identifying and describing the principles and techniques employed by Chrysostom to achieve his rhetorical aims. She also offers a novel analysis of the overall rhetorical strategy that he followed, thereby drawing attention to important aspects overlooked by scholars thus far. All three external assessors recommended publication of the thesis or parts of it.

**Promoter:** Prof DF Tolmie

#### DOCTOR OF PHILOSOPHY WITH SPECIALISATION IN GOVERNANCE AND POLITICAL TRANSFORMATION

**JANKIELSOHN, Roy**

Born in Steynsrus, Dr Roy Jankielsohn completed a BA, two Honours degrees, and a Master's degree at the University of the Free State before obtaining a PhD in Political Studies at North-West University. Dr Jankielsohn was a lecturer at the UFS in the Department of Political Science between 1995 and 2000 and served as a member of Parliament between 2000 and 2006. Since 2006, he has served as a member of the Free State Legislature and is currently leader of the Official Opposition in the Free State. He continues to carry out academic work as a researcher, reviewer and postgraduate examiner.

With his thesis, titled: **THE GOVERNANCE OF CUSTODIANSHIP OVER ANIMALS IN SOUTH AFRICA - AN ANALYSIS AND ALTERNATIVE FRAMEWORK**, the candidate has established a new and unique field of study referred to as 'animal custodianship', developing a framework of views within which the various groups involved in animal custodianship, whether rightist, welfarist or dominionist, may be evaluated in the context of the developing discipline of governance. This study identifies the metatheoretical and theoretical aspects of the theme, investigates societal and theoretical approaches to the field of study, develops an academic model for the purpose of evaluation, and then employs this model to discuss the most prominent groups involved in animal custodianship within South Africa. The ethical and rules-based aspects of the governance



of animal custodianship are discussed through the identification of the legislation that governs human and animal relationships in South Africa within the frameworks of human, animal and environmental well-being.

**Promoter:** Dr T Coetzee

## DOCTOR OF PHILOSOPHY WITH SPECIALISATION IN LANGUAGE PRACTICE

**JANSEN VAN VUUREN**, Xany

Xany Jansen van Vuuren was born in Pretoria in 1982, and received her secondary education in Ficksburg, matriculating from Ficksburg High School in 2000. She obtained her BA degree (with specialisation in Afrikaans literature and German) from Rhodes University in 2003, after which she completed a Post Graduate Certificate in Education in 2004, also at Rhodes University. She moved to Bloemfontein to obtain her MA in 2 . Language Practice in 2008, and her PhD in 2022. She was appointed as full-time lecturer at the University of the Free State in 2010, and currently lectures in the fields of interpreting and translation.

With her thesis, titled: **NON-PROFESSIONAL INTERPRETING IN ANIMAL WELFARE: TOWARDS AN ECOSEMIOTIC UNDERSTANDING OF INTERACTION**, the candidate makes a highly original interdisciplinary contribution to the fields of translation studies broadly, interpreting studies more narrowly as well as semiotics and ecosemiotics. With data collected from an animal-welfare outreach project, this is the first study ever to include non-human animals in the interpreting process, which led assessors to praise the study for its theoretical and methodological originality as well as for its findings, among which are the demonstration that and how non-human animals are crucial participants in the interactions in animal-welfare contexts.

**Promoter:** Prof J Marais

**Co-Promoters:** Dr C Delgado Luchner, Prof J Queiroz

## DOCTOR OF PHILOSOPHY WITH SPECIALISATION IN PHILOSOPHY

**NAUDÉ**, Charl-Pierre Therond

Charl-Pierre Naudé was born 1958 in Kokstad and matriculated in East London (1976). He has studied at the University of Stellenbosch (BA 1987 and BA Hons 1988) and the University of the Free State (MA 2017). In his career Naudé is also an accomplished and an award-winning author. He works as a freelance journalist and scholar and resides with his wife in Johannesburg.

With his thesis, titled: **REDE EN MITE: BLUMENBERG SE RASIONEEL VIR DIE HISTORIESE ONTOUING VAN NARRATIEWE EN DENKE**, the candidate applies the thought of Hans Blumenberg to historical and modern dilemmas. Blumenberg proposes a grid to differentiate between two modes of thought, the mythical and the rational. The rational mode is more recent and is vulnerable to the older, mythmaking mode. Both modes remain ever present. Blumenberg's model shows that concepts that survive the times do not do so with fixed essences but by their capacity to be employed in new functions. This has far-reaching implications for modernity studies and offers new avenues by which to effect decoloniality.

**Promoter:** Prof PNJ Duvenage

**Co-Promoter:** Prof HJ Pieterse

## DOCTOR OF PHILOSOPHY WITH SPECIALISATION IN POLITICAL SCIENCE

**MOKOENA**, Benjamin Petros Oupa

Benjamin Mokoena matriculated in 1991. He obtained his bachelor's degree in humanities from the University of Stellenbosch in 2000. In 2001 he obtained the Bachelor of Military Science with Honours in Security and Africa Studies from Stellenbosch University, and in 2006 he obtained the Master in Military Science in Security and Africa Studies, also from Stellenbosch University.



With his thesis, titled: **ISLAMIST VIOLENT EXTREMISM AND THE FRAGILE AFRICAN STATE: THE CASE IN KENYA**, the candidate contributes to scholarship regarding the relationship between state fragility, Islamist violent extremism, and countering Islamist violent extremism. The study finds that the properties of state fragility, inclusive of the social structures that subsist in the fragile state, have causal capacity and tendency, providing not only the context and opportunity for, but actively generating, Islamist violent extremism and barriers to countering Islamist violent extremism, and hence the failure of countering Islamist violent extremism.

**Promoter:** Prof H Solomon

## DOCTOR OF PHILOSOPHY WITH SPECIALISATION IN SESOTHO

**MASIPA, Mpho Dellynah**

Mpho Dellynah Masipa was born in Bochum in Limpopo province, South Africa, on 20 August 1973. She completed her senior certificate at Mokgorokgoro High School in 1991. She obtained her Primary Teacher's Diploma at Kwena Moloto College of Education in 1995 and a BA degree at UNISA in 2002. She then graduated with an honours degree in Linguistics at UNISA in 2012, an honours degree in African Languages at Stellenbosch University in 2013, a master's degree in Education Curriculum at the University of Limpopo in 2015, a master's degree in African Languages at Stellenbosch University in 2016. She has been employed as a Language Practitioner (Sepedi) at the Parliament of the Republic of South Africa since 2010.

With her thesis, titled: **THE EXTENT TO WHICH NORTHERN SOTHO LANGUAGE IS USED ON SOCIAL MEDIA BY ITS YOUNG NATIVE SPEAKERS IN POLOKWANE**, the candidate contributes to the scholarship of African Languages in the field of sociolinguistics, her focus being on the use of the Northern Sotho language in social media by young people when communicating with their peers, relatives and parents. Using comprehensive statistical data analysis and participant explanations, the study explores the communicative patterns employed by young people when they use their native language on social media to determine those factors that affect their choices between their native language and English. The study presents an overall finding that most of the participants used Northern Sotho when communicating with their family members and relatives on social media, but that they code-switched between Northern Sotho and English when speaking to their peers and friends to accommodate those who could not understand Northern Sotho. It also indicates that they value and take pride in their language. The study recommends that social-media applications for indigenous languages be developed because these applications will help to simplify the facilitation of communication in both communities and learning spaces for young people.

**Promoter:** Dr EN Malete

## DOCTOR OF PHILOSOPHY WITH SPECIALISATION IN SOCIAL WORK

**VAN WYK, Carel Johannes**

Carel Johannes van Wyk was born in Hoopstad on 23 March 1967. He received his secondary education in Bultfontein where he matriculated at the Bultfontein Hoërskool in 1985. He obtained the degree BSocSc in 1988, HonsBSocSc (Psy) in 1997, the degree MSocSc (SW) in 1999 and the PhD (SW) in 2022 at the University of the Free State. He started his career as a social worker (First Educational Specialist: Sociopedagogue) in Welkom at the Child Guidance Clinic in 1993. In 2006 he was appointed in the Department of Social Work and is currently a lecturer at the University of the Free State.

With his thesis, titled: **SINCHRONISTIESE INSIDENTE IN PERDEONDERSTEUNDE PSIGOTERAPIE**, the candidate contributes to closing a gap in the literature regarding synchronicities in equine-assisted psychotherapy. He investigates synchronicity using a classical Jungian view combined with phenomenological analysis and a quantitative survey to determine its phenomenological structure so that therapists can use it to optimum effect during EAP sessions. The study shows that horses who behave atypically and whose behaviour is consistent with the client's psyche are involved in EAP synchronicities. The horse is not "only" a horse but also the archetypal Horse or Equus. The horse and man's space-time unite on a collective unconscious level as a result of the constellation of the psychoid archetype synchronicities and appear in this phenomenal field of unconscious relationship. Synchronicities appear at the exact moment the client addresses an emotional issue. A Western research paradigm cannot always explain extraordinary phenomena such as synchronicities.

**Promoter:** Prof SB Ferreira



**DEAN |**  
**PROF PD VERMEULEN**

**AGRICULTURAL SCIENCES**

**BACHELOR'S DEGREES**

**BACHELOR OF AGRICULTURE**

FINGER, Kgalalelo Nomonde  
HADEBE, Noxolo Angel  
MANZI, Makabongwe Muvo Simo  
MASANGO, Ntethelelo Ntuthuko

**BACHELOR OF AGRICULTURE  
MAJORING IN AGRICULTURAL  
ECONOMICS**

MANGANYELA, Sakhumuzi  
Mbuso

**BACHELOR OF AGRICULTURE  
MAJORING IN AGRICULTURAL  
MANAGEMENT**

DLAKELA, Mbonisi  
GAMA, Nomcebo Vinolia  
LUBBE, Ju-Ané  
MAINO, Thato  
MAKHOBA, Mohlolo Michael  
MAKWENKWE, Aluncedo  
MAPOSELA, Linamandla Ndumiso  
MBETHE, Thembakazi  
MELLO, Mokgadi Khutso  
MNQAYANA, Siphumle Luke  
SEBAKO, Cynthia Mamiki  
SIBISI, Mbekezeli Thobelani  
Penwell

**BACHELOR OF AGRICULTURE  
MAJORING IN CROP  
PRODUCTION MANAGEMENT**

BEYL, Marno Thurston  
EASTON, James Almon  
LAMULA, Nontuthuko Ziyanda  
Nomcebo  
NGUBANE, Mnqobi Velemseni

**BACHELOR OF AGRICULTURE  
MAJORING IN MIXED FARMING  
MANAGEMENT**

DLAMINI, Sanelisiwe Cynthia  
ENGELBRECHT, Remy  
HUMAN, Nicolaas Johannes  
Botha  
KOEKEMOER, Magnus Johan  
MOLETSANE, Matshediso  
TAU, Phumla Cleopatra  
TERBLANCHE, Eben Jan  
VENTER, Morne

**BACHELOR OF SCIENCE IN  
AGRICULTURE MAJORING IN  
ANIMAL SCIENCES**

VAN SCHALKWYK, Anke

**BACHELOR OF SCIENCE IN  
AGRICULTURE MAJORING IN  
PLANT PATHOLOGY**

COETZEE, Estie

**BACHELOR OF SCIENCE IN  
AGRICULTURE MAJORING IN  
SOIL SCIENCE WITH PLANT  
PATHOLOGY**

SETHABELA, Karabo Moipone

**BUILDING SCIENCES**

**BACHELOR'S DEGREES**

**BACHELOR OF SCIENCE IN  
QUANTITY SURVEYING**

LOMBARD, Charlotte

**NATURAL SCIENCES**

**BACHELOR'S DEGREES**

**BACHELOR OF COMPUTER  
INFORMATION SYSTEMS**

BAYETT, Reuben Tshepo

DAVIDS, Paul Neville

MAEMA, Nthakoana

MOKOBANE, Karabo Maputla  
Donald

SEHLAKO, Keneiloe Alika

**BACHELOR OF SCIENCE**

BODENSTEIN, Charl

**BACHELOR OF SCIENCE IN  
INFORMATION TECHNOLOGY  
MAJORING IN COMPUTER  
SCIENCE AND BUSINESS  
MANAGEMENT**

HENDERSON, Jaymee Chelsea  
KATSHIWE, Chulumanco  
MALAPANE, Patrick  
MATHLORE, Tshepiso



MOKWENA, Tshifhiwa Laurence  
MPATANE, Kamohelo Tshepang  
SHIKWAMBANA, Nyiko

**BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY MAJORING IN COMPUTER SCIENCE AND CHEMISTRY**

NTSELE, Shaun

**BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY MAJORING IN COMPUTER SCIENCE AND MANAGEMENT**

DHLAMINI, Mfanafuthi  
MADONDO, Lungile Phiwe  
TSOTETSI, Sandile Gift

**BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY MAJORING IN COMPUTER SCIENCE AND MATHEMATICS**

JONKERS, Llewellyn  
MOTSAMA, Luckyboy Teboho

**BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY MAJORING IN COMPUTER SCIENCE AND PHYSICS**

MASIKO, Sithabile Promise

**BACHELOR OF SCIENCE MAJORING IN BEHAVIOURAL GENETICS**

LIKHOELE, Tankiso  
LITHEKO, Relebogile

MASEKO, Tsebeletso  
MOFOKENG, Setsoto Patience  
STRAUSS, Nicole

**BACHELOR OF SCIENCE MAJORING IN BIOCHEMISTRY AND FOOD SCIENCE**

MOJAPELO, Kopea Frank  
MOKWENA, Morobela

**BACHELOR OF SCIENCE MAJORING IN BIOCHEMISTRY AND PHYSIOLOGY**

BALUTI, Julia Mafuta  
NEKHUDZHIGA, Rabelani Angelina

**BACHELOR OF SCIENCE MAJORING IN BIOCHEMISTRY AND ZOOLOGY**

ZUMA, Ntandoyenkosi

**BACHELOR OF SCIENCE MAJORING IN BIOLOGICAL SCIENCES**

APRIL, Tylo Maledi  
CARLSON, Niël  
MASEHLA, Modiegi Kgaakge  
PULE, Karabo Simphiwe

**BACHELOR OF SCIENCE MAJORING IN BOTANY AND GENETICS**

BINTO, Amahle  
MAREE, Franco Casparus  
RAMMOKO, Mpho Caroline

**BACHELOR OF SCIENCE MAJORING IN BOTANY AND ZOOLOGY**

MOTSHEGWA, Gaopalelwe Samuel

**BACHELOR OF SCIENCE MAJORING IN CHEMISTRY AND PHYSICS**

SHANGE, Sabelo Alpha

**BACHELOR OF SCIENCE MAJORING IN ECONOMETRICS**

CHIKOZHO, Esther Tatenda  
DUBE, Neliswa Sweetness

**BACHELOR OF SCIENCE MAJORING IN FORENSIC SCIENCE**

MASHAMBA, Muelekanyi  
NGCABA, Lynette Lerato  
RIKHOTSO, Vutivi Joe  
SHAKWANE, Karabo Masoti Hope  
SHIBA, Seluliwe Simile

**BACHELOR OF SCIENCE MAJORING IN GENETICS AND MICROBIOLOGY**

MAREE, Carla  
MOKOENA, Jakobo

**BACHELOR OF SCIENCE MAJORING IN GENETICS AND PHYSIOLOGY**

GUMEDE, Nelisa Ntandoyenkosi  
MABASO, Nthabiseng Nonhlanhla



MHLONYANE, Ntsikelelo Edward

NKUNA, Mpho Faith

SHANNON, René

**BACHELOR OF SCIENCE  
MAJORING IN GENETICS AND  
ZOOLOGY**

BOSMAN, Petrus Jacobus

MOLEFI, Motsehoa Maggy

**BACHELOR OF SCIENCE  
MAJORING IN GEOGRAPHY**

MANGOKWANA, Beauty Macheba

**BACHELOR OF SCIENCE  
MAJORING IN GEOGRAPHY  
AND ENVIRONMENTAL  
SCIENCE**

HOHO, Lindelwe

MAKABOLANE, Tebatso

MOLAWA, Khomotjo Medina

MOLELKENG, Mothusi Kingsley

MPHALE, Tumisang Michael

YEKANE, Zovuyo

**BACHELOR OF SCIENCE  
MAJORING IN GEOGRAPHY  
AND TOURISM**

NYOKA, Siphesihle Xola Blessing

**BACHELOR OF SCIENCE  
MAJORING IN LIFE SCIENCE**

MOTAUNG, Puleng Portia

**BACHELOR OF SCIENCE  
MAJORING IN MATHEMATICS  
AND APPLIED MATHEMATICS**

SEPEESA, Versace

**BACHELOR OF SCIENCE  
MAJORING IN MATHEMATICS  
AND PHYSICS**

WITBOOI, Shanaaz Gaya

**BACHELOR OF SCIENCE  
MAJORING IN PHYSICS AND  
ASTROPHYSICS**

DUMA, Sifiso

LETSELE, Thulo

**BACHELOR OF SCIENCE  
MAJORING IN STATISTICS AND  
ECONOMICS**

MAKARINGE, Mfumo Junior  
Clinton

MATOTI, Aviwe

TSOTETSI, Tsidi Hendrieta

**BACHELOR OF SCIENCE  
MAJORING IN STATISTICS AND  
PSYCHOLOGY**

JALI, Sizwe Gladman

**DIPLOMAS**

**POSTGRADUATE DIPLOMA IN  
DISASTER MANAGEMENT**

NZIMANDE, Sibusiso Zwelakhe  
Justice

**POSTGRADUATE DIPLOMA  
IN INTEGRATED WATER  
MANAGEMENT**

KGOPA, Maninana Mercia

**BACHELOR HONOURS  
DEGREES**

**BACHELOR OF AGRICULTURE  
HONOURS MAJORING IN  
AGRICULTURAL ECONOMICS**

SHAI, Rethabile

**BACHELOR OF AGRICULTURE  
HONOURS MAJORING IN  
ANIMAL PRODUCTION  
MANAGEMENT**

NEMAEMBENI, Murendeni  
Jessica

**BACHELOR OF SCIENCE  
HONOURS IN AGRICULTURE  
MAJORING IN SOIL SCIENCE**

BOQWANA, Nompumelelo

**BACHELOR OF SCIENCE  
HONOURS MAJORING IN  
ENTOMOLOGY**

TSHABALALA, Pontsho

**BACHELOR OF SCIENCE  
HONOURS MAJORING IN  
GEOHYDROLOGY**

PHASHA, Mildred Mokgadi

**BACHELOR OF SCIENCE  
HONOURS MAJORING IN  
APPLIED STATISTICS**

MOLEFE, Boemo



**BACHELOR OF SCIENCE  
HONOURS MAJORING IN  
COMPUTER SCIENCE AND  
INFORMATICS**

DYANTYI, Thamsanya

**BACHELOR OF COMPUTER  
INFORMATION SYSTEMS  
HONOURS**

SAMHEMBERE, Dudley Shane  
Tinotenda

TSEPHÉ, Tau Edwin

**AGRICULTURAL SCIENCES**

**MASTER'S DEGREES**

**MASTER OF DISASTER  
MANAGEMENT**

SEHLOHO, Puleng Edith

**MASTER OF ENVIRONMENTAL  
MANAGEMENT**

GININDZA, Hlelile Winile

MAMABOLO, Kamogelo  
Motsanalo Florence

MOROENYANE, Ntja Mahlo-A-  
Mmutla David

MPHAFUDI, Lesailane Antoinette

**MASTER OF SCIENCE  
MAJORING IN AGRICULTURAL  
ECONOMICS**

MONTEIRO, Markus Arlindo

**Dissertation Title:** THE  
ECONOMIC ANALYSIS  
OF ALTERNATIVE MAIZE  
MARKETING STRATEGIES  
BASED ON TECHNICAL MARKET  
ANALYSIS

**Supervisor:** Prof N Matthews

**Co-Supervisor:** Prof B Grové

OKOLIE, Collins Chimaobi\*

**Dissertation Title:** PERCEIVED  
IMPACT, RISK MANAGEMENT  
AND VULNERABILITY TO  
DROUGHT: THE EXPERIENCES  
OF FARMING HOUSEHOLDS IN  
THE FREE STATE PROVINCE,  
SOUTH AFRICA

**Supervisor:** Prof AA Ogundefi

**Co-Supervisor:** Dr G Danso-  
Abbeam

**MASTER OF SCIENCE IN  
AGRICULTURE MAJORING IN  
ANIMAL SCIENCE**

BHIKA KOOVERJEE, Bhaveni

**Dissertation Title:**  
COMPARATIVE ANALYSIS OF  
STRUCTURAL VARIATION  
IN NGUNI AND BONSMARA  
CROSSBRED CATTLE  
POPULATION

**Supervisor:** Dr P Soma

**Co-Supervisor:** Dr MM Scholtz

**MASTER OF SCIENCE  
MAJORING IN SOIL SCIENCES**

BAASI, Lineo Elizabeth

**Dissertation Title:**  
CHARACTERISING THE  
SOIL AND VEGETATION OF  
WETLANDS IN SEHLABATHEBE,  
LESOTHO

**Supervisor:** Prof JJ Van Tol

**Co-Supervisor:** Dr AC Van Aardt

**MASTER OF SCIENCE  
MAJORING IN SOIL SCIENCES  
INTERDISCIPLINARY**

MALULEKE, Shereen

**MASTER OF SCIENCE  
MAJORING IN WILDLIFE**

VAN ROOYEN, Karin-Louise

**MASTER OF SCIENCE  
MAJORING IN WILDLIFE  
SCIENCE**

DE VILLIERS, Mari-Su

**Dissertation Title:** FREE-  
ROAMING LEOPARDS  
(PANTHERA PARDUS) IN AN  
AGRICULTURAL DOMINATED,  
MOUNTAINOUS LANDSCAPE,  
WESTERN CAPE

**Supervisor:** Dr BB Janecke

**Co-Supervisor:** Ms L Müller

**MASTER OF SUSTAINABLE  
AGRICULTURE**

KUNENE, Hlobile Patricia

MACHE, Diketso Samuel

MTSHALI, Silindile Mayibongwe  
Ntombizandile



## BUILDING SCIENCES

### MASTER'S DEGREES

#### MASTER OF SCIENCE MAJORING IN QUANTITY SURVEYING

**TRUTER**, Samantha\*

**Dissertation Title:** CORE COMPETENCES OF QUANTITY SURVEYORS IN VALUING WORKS WITHIN THE ENGINEERING SECTOR OF SOUTH AFRICA

**Supervisor:** Prof K Kajimo-Shakantu

#### MASTER OF SCIENCE MAJORING IN RISK ANALYSIS

**CHIDA**, Tapiwa Edward\*

**Dissertation Title:** AN ANALYSIS OF RISK IN THE SOUTH AFRICAN NON-LIFE INSURANCE MARKET

**Supervisor:** Prof D Chikobvu

#### MASTER OF URBAN AND REGIONAL PLANNING

**MINNIE**, Stephanus\*

**Dissertation Title:** AN INSTITUTIONAL POLYCENTRIC GOVERNANCE FRAMEWORK TO ASSESS THE ACTION SITUATIONS EMANATING FROM SECTION 12 SPATIAL PLANNING AND LAND USE MANAGEMENT ACT, WITHIN FREE STATE PROVINCE

**Supervisor:** Prof D Atkinson

## NATURAL SCIENCES

### MASTER'S DEGREES

#### MASTER OF SCIENCE IN NANOSCIENCE

GAWE, Sokhana Yoliswa

RAMOLAHLOANE, Hope Thabo

#### MASTER OF SCIENCE MAJORING IN APPLIED STATISTICS

**SITHOLE**, Charles\*

**Dissertation Title:** MODELLING THE EXTREME RISK OF INVESTING IN THE JOHANNESBURG STOCK EXCHANGE ALL-SHARE INDEX

**Supervisor:** Prof D Chikobvu

TALANYANE, Maseli Simon

#### MASTER OF SCIENCE MAJORING IN ASTROPHYSICS

DU PLOOY, Drikus Cornelus

#### MASTER OF SCIENCE MAJORING IN BEHAVIOURAL GENETICS

**BURGER**, San-Mari

**Dissertation Title:** THE DEVELOPMENT AND MANAGEMENT OF AGGRESSION IN MALE JUVENILE DELINQUENTS: A GENE-ENVIRONMENT CORRELATIVE STUDY

**Supervisor:** Mr S Burger

### MASTER OF SCIENCE MAJORING IN BOTANY

**GROBLER**, Hanlie\*

**Dissertation Title:** NEMESIA (SCROPHULARIACEAE) NECTAR SPUR DEVELOPMENT AND FUNCTION IN A PHYLOGENETIC CONTEXT

**Supervisor:** Dr L Joubert

**Co-supervisor:** Dr M Jackson

**MOLOI**, Karabo Thato\*

**Dissertation Title:** REPRODUCTIVE ECOLOGY OF AN INVASIVE COTONEASTER SPECIES IN AFROMONTANE GRASSLANDS OF THE EASTERN FREE STATE, SOUTH AFRICA

**Supervisor:** Dr S Steenhuisen

**Co-Supervisor:** Dr G Martin, Dr VR Clark

### MASTER OF SCIENCE MAJORING IN CHEMISTRY

**BLIGNAUT**, Janine\*

**Dissertation Title:** GOLD(I) COMPLEXES BEARING PHOSPHINE PINCER LIGANDS; CHARACTERIZATION, LUMINESCENCE, AND ANTICANCER PROPERTIES

**Supervisor:** Prof HG Visser

**Co-Supervisor:** Dr M Schutte-Smith

**BOSMAN**, Lerato Azania\*

**Dissertation Title:** HALOGENATED SALICYLIDENE RHODIUM(I) COMPLEXES



AS MODEL HOMOGENEOUS CATALYSTS

**Supervisor:** Prof A Brink

**Co-Supervisor:** Dr DV Kama

**MNCWANGI**, Sibusiso Nicko

**Dissertation Title:** SYNTHESIS OF ATROMATIC MONOPYRROLO-TETRATHIAFULVALENE DERIVATIVES WITH VARIABLE DEGREE OF CONJUGATION

**Supervisor:** Prof V Azov

**NZHADZHABA**, Nonhlanhla Naledi

**Dissertation Title:** SYNTHESIS, CHARACTERISATION, LUMINESCENCE AND CYTOTOXICITY OF RHENIUM(I) COMPLEXES BEARING N,N'-BIDENTATE LIGANDS

**Supervisor:** Dr M Schutte-Smith

**Co-Supervisor:** Prof HG Visser

**SWART**, Glendin\*

**Dissertation Title:** FERROCENYL-CONTAINING DODECYL PHTHALOCYANINES: SYNTHESIS, SPECTROSCOPY AND MESOPHASE BEHAVIOUR

**Supervisor:** Dr E Müller

**Co-Supervisor:** Prof JC Swarts

**MASTER OF SCIENCE MAJORING IN CONSUMER SCIENCE**

MAHLANZA, Zamancwane Pretty

**Dissertation Title:** NUTRITIONAL, PHYSICOCHEMICAL AND SENSORY ANALYSIS OF PROCESSED SPEKBOOM (PORTULACARIA AFRA) PRODUCTS.

**Supervisor:** Dr A Du Toit

**Co-Supervisors:** Prof M De Wit, Prof A Hugo

**MASTER OF SCIENCE MAJORING IN ENVIRONMENTAL GEOGRAPHY**

**MNCUBE**, Zandile

**Dissertation Title:** USING NIGHT-TIME LIGHT REMOTE SENSING DATA TO STUDY LIGHT POLLUTION IN ETHEKWINI METROPOLITAN MUNICIPALITY

**Supervisor:** Prof SA Adelabu

**Co-Supervisor:** Dr EG Adagbasa

**MASTER OF SCIENCE MAJORING IN ENVIRONMENTAL MANAGEMENT**

CEBEKHULU, Pinky Sanele\*

**MASTER OF SCIENCE MAJORING IN FORENSIC GENETICS**

DE BRUYN, Marli

SITHOLE, Nosipho Charmaine

SWANEPOEL, David Nicolas

**MASTER OF SCIENCE MAJORING IN GENETICS**

STRAUSS, Dominique

**MASTER OF SCIENCE MAJORING IN GEOGRAPHY**

BOSMAN, Bernardus Lambertus\*

MUKWEVHO, Rinae

**MASTER OF SCIENCE MAJORING IN GEOHYDROLOGY**

DEN BOOGERT, Lorainmari

**Dissertation Title:** WATER BALANCE AND AQUATIC BIOTA OF A DEFUNCT MINE IN THE MPUMALANGA COAL FIELDS

**Supervisor:** Dr E Lukas

**Co-Supervisor:** Dr MF Avenant

**JORDAAN**, Lincoln Wimbles\*

**Dissertation Title:** USING NUMERICAL MODEL TO EVALUATE ANALYTICAL METHOD USED TO ESTIMATE TRANSMISSIVITY AND STORATIVITY IN A CONFINED AQUIFER.

**Supervisor:** Prof M Gomo

**KOKO**, Hangwani Jaqueline

**Dissertation Title:** AN INVESTIGATION OF HYDRAULIC PROPERTIES OF AN ALLUVIAL CHANNEL AQUIFER

**Supervisor:** Prof M Gomo



**MADANDA, Tsumbedzo**

**Dissertation Title:**  
HYDROGEOLOGICAL  
INVESTIGATION OF SOURCES  
OF WATER WITHIN CULLINAN  
DIAMOND UNDERGROUND  
MINE WORKINGS

**Supervisor:** Dr SS de Lange

**MAFIKA, Mpho Ignacious**

**Dissertation Title:**  
GROUNDWATER QUALITY  
ASSESSMENT OF PUBLIC  
WATER COLLECTION SITES  
USING AN INTEGRATED  
GEOSPATIAL ANALYSIS  
AND WATER CHEMISTRY  
APPROACH: QWA-QWA, SOUTH  
AFRICA

**Supervisor:** Dr SS de Lange

**MASTER OF SCIENCE  
MAJORING IN POLYMER  
SCIENCE**

SEROMO, Lebohang

**MASTER OF SCIENCE  
MAJORING IN ZOOLOGY**

LEWIS, Chanel\*

**Dissertation Title:** INTEGRATING  
TROPHIC LEVEL WITH  
THE NICHE VARIATION  
HYPOTHESIS: A COMPARISON  
OF INDIVIDUAL NICHE  
VARIATION BETWEEN MAMMAL  
HERBIVORE AND CARNIVORE  
POPULATIONS

**Supervisor:** Prof DM Codron

**VAN DER MERWE, Runè\***

**Dissertation Title:** THE ROLE OF  
BODY SIZE AS A LIFE HISTORY  
TRAIT INFLUENCING WITHIN-  
POPULATION NICHE VARIATION  
IN MAMMALS

**Supervisor:** Prof DM Codron

## DOCTORAL DEGREES

### DOCTOR OF PHILOSOPHY

**MOLOMO, Karabo Peter**

Karabo Molomo was born on 10 February 1983 in Mokuruanyane Village, Lephalale, Limpopo, South Africa. He matriculated at Majadibodu High School in 1999 and graduated with a National Diploma in Agricultural Management from the Tshwane University of Technology in 2004. He earned a B-Tech in Agricultural Management from Unisa in 2008 and a Magister in Sustainable Agriculture from the University of the Free State in 2011. He started his career as a Research Technician at the Agricultural Research Council in 2006. He was appointed as a Lecturer in Animal Production at the Mangosuthu University of Technology in 2012, and he ascended through the ranks to become a Senior Lecturer in 2021.

With his thesis titled: **FACTORS INFLUENCING THE COMMERCIALISATION OF EMERGING DAIRY FARMERS IN SOUTH AFRICA: A CASE STUDY OF THE FREE STATE PROVINCE**, the candidate contributes new knowledge which will assist in developing sound strategies for commercialising emerging dairy farmers in South Africa. Multiple cases of emerging dairy farmers, farming under diverse conditions, provided a deep insight into the lived experiences of a typical emerging dairy farmer. Another perspective on these farmers' situation was obtained from dairy specialists from the industry, who have worked with these farmers. The study identified the main constraints impacting the commercialisation of emerging dairy farmers in the



Free State Province as; lack of access to financial support, market limitations, lack of infrastructure, low milk prices and lack of appropriate management skills. Good prospects for commercialising these farmers were, however, highlighted by the study. It was also found that, provided they are correctly implemented, dairy business hub models can pave the way for achieving such commercialisation.

**Promoter:** Prof C Banga

**Promoter:** Dr J Van Der Westhuizen

## DOCTOR OF PHILOSOPHY IN ARCHITECTURE WITH SPECIALISATION IN DESIGN

**DODD, Heather Margaret**

Heather Dodd was born in Harare on 5 June 1968. She received her secondary education in Johannesburg where she matriculated at Greenside High school in 1985. She obtained the degree of Bachelor of Architecture (Cum Laude) in 1991 at the University of the Witwatersrand and the degree Master of Architecture in 1997 at the University of Cape Town. She practices as a professional Architect in Johannesburg in the practice, Savage + Dodd Architects.

With her thesis titled, **SMALL MOVES SPATIAL TACTICS FOR TRANSFORMATION**, the candidate makes a contribution to an architectural spatial practice embedded within the specific challenges of the post-Apartheid city, through the work of Savage + Dodd Architects. With this contribution, she attempts to identify a tactical practice of 'small moves' employing a series of spatial tactics, used to adapt and transform buildings and thus the urban fabric in pursuit of a practice of spatial transformation. The outcomes of this investigation illustrate a 'mode of practice' that enables a flexible, adaptable and tactical approach to architectural design, and specifically housing and inner-city hybrid prototypes, of value in resolving an ongoing engagement with spatial transformation in the post-Apartheid city.

**Promoter:** Prof J Noble

## DOCTOR OF PHILOSOPHY MAJORING IN AGRICULTURAL ECONOMICS

**OOSTHUIZEN, Phillipus Lodewikus**

Phillip Oosthuizen was born on 6 September 1991 in Bethlehem, Free State (South Africa). He matriculated at Bethlehem Voortrekker High School in 2009. He obtained a Bachelor of Science (BSc) degree in Animal Science and Agricultural Economics in 2013, a Bachelor of Science (Hons) degree in Agricultural Economics in 2014, a Master of Science (MSc) degree in Agricultural Economics (cum laude) in 2016, and a Doctor of Philosophy (PhD) degree in 2022 from the University of the Free State. He started his career as a business manager at Nedbank Agricultural Business Banking in 2016 and joined the Sernick group in 2017, where he is still employed as the Head of Research: Innovation and Economics.

With his thesis titled: **THE EFFECT OF GROWTH PROMOTERS ON BEEF PROFITABILITY, QUALITY, AND CONSUMER PREFERENCES: A VALUE CHAIN APPROACH**, the candidate makes a contribution to the red meat value chain by addressing profitability and beef quality. Mr Oosthuizen quantified the impact of growth promoters on the cattle feedlot industry's profitability and found that growth promoters increase feedlot profitability but decrease beef quality. A unique sensory beef quality quantification methodology from Australia was adopted and reconfigured for the South African consumer market. A decision support framework was compiled to recommend growth promoter strategies to enhance financial feasibility throughout the value chain, which includes the feedlot, abattoir, and consumers. Mr Oosthuizen found that better than everyday quality beef can be produced by using less growth promoters and that consumers are willing to pay a premium, which can compensate for the decreased feedlot financial margin.

**Supervisor:** Prof. F.A. Maré

**Co-Promoter:** Prof. P.E. Strydom



## DOCTOR OF PHILOSOPHY MAJORING IN CHEMISTRY

### MOGALE, Refilwe

Refilwe Mogale was born on 20 March 1993 in Parys, Free State. She matriculated at Sasolburg High School in 2011. She pursued her post school education at the University of the Free State where she obtained her bachelors, honours, masters and PhD degree in Chemistry. In 2022, she worked as a part-time lecturer in physical chemistry and is currently appointed as a post-doctoral fellow. Refilwe has multiple articles published in international journals on topics of environmental chemistry and wastewater treatment.

With her thesis titled: **ALUMINIUM- AND ZIRCONIUM-BASED METAL ORGANIC FRAMEWORKS WITH AZOBENZENE AND STILBENE DICARBOXYLATE LIGANDS FOR USE IN WASTEWATER TREATMENT**, the candidate contributes to the field of metal-organic frameworks and their potential usage in industrial wastewater treatment. The research systematically investigated three main properties of these framework materials when used as adsorbents in wastewater treatment, resulting in three published journal articles. She found that these MOFs, containing photoresponsive moieties, are highly efficient and reusable materials for dye-waste adsorption. She demonstrated that nitrogen functionalization of the MOF structure influenced the framework's physical properties and pollutant adsorption capacity. Lastly, she showed how tuning the MOFs' pore sizes with different-sized organic linkers affects adsorption capacity, with larger pore sizes having a higher adsorption capacity.

**Promoter:** Dr EHG Langner

### MORERWA, Zanele Gift

Zanele Gift Morerwa was born on 18 March 1990 in the township of Mamelodi in Pretoria. She completed her matric in 2008 at the International Deutsche Schule of Pretoria. Being one of six children with limited funding she spent 2 years in self-employment before being able to enrol for the extended program (BSc. Degree in Chemistry/Physics and Biology) at the University of the Free State in 2011. She obtained her undergraduate BSc degree in 2015; completed her BSc Honours in 2016 and then her MSc. in Chemistry in 2019.

With her thesis titled: **WATER-SOLUBLE RHODIUM(I) MODEL CATALYSTS**, the candidate makes an important contribution to the knowledge base for the development of water-soluble rhodium complexes in the industrial specialization of homogenous catalysis. This is imperative for the potential development of future agents which focuses on "green" practices for environmentally friendly industrial processes. A range of novel organometallic compounds were synthesized and characterized by various techniques, including single crystal X-ray diffraction and NMR spectroscopy. A kinetic study based in halogenated and alcohol solvents as well as in water was investigated and indicated an excellent correlation to establish the intimate reaction mechanism of the oxidative addition process which takes place in water.

**Promoter:** Prof A Brink

**Co-Promoter:** Prof A Roodt

### MPHUTHI, Lehlohonolo Ernest

Lehlohonolo Ernest Mphuthi was born in QwaQwa, Free State, on 10 June 1992. He completed his high school education at Mampoi High School in 2010 with four distinctions. He attained a B.Sc. in Chemistry and Physics in 2015 and an Honours in Polymer Chemistry in 2016 at University of the Free state. As the first Nano-chemistry student at the University of the Free state, he completed his master's degree in Nanoscience in 2018.

With his thesis titled: **SYNTHESIS, CHARACTERIZATION AND METAL EXCHANGE OF ZIF-8 AND ZIF-67 NANOPARTICLES FOR CATALYTIC APPLICATIONS**, the candidate contributes to the development of nano-sized bimetallic metal-organic framework catalysts for various catalytic applications, including CO<sub>2</sub> reduction. The candidate effectively synthesized nano-



sized ZIF-8 and ZIF-67 crystallites isothermally in either water or methanol under ambient conditions. The metal centres of these materials were partially exchanged with iron(II), Titanium(IV), Manganese(II) or Nickel(II) to form microporous, bimetallic ZIFs, leading to the enhancement of the materials' catalytic activity. This was achieved without altering the structural integrity, topology and metal oxidation state of the parent ZIFs. Compared to their parent ZIFs, the metal-exchanged ZIFs significantly demonstrated higher catalytic efficiency in all applications. Moreover, these catalysts are stable and can be regenerated and re-used without substantial loss in catalytic activity. Two papers have already been published from this study.

**Promoter:** Dr EHG Langner

## DOCTOR OF PHILOSOPHY MAJORING IN CONSUMER SCIENCE

**MAFU, Thobekile**

Thobekile Mafu was born on 21 May 1977. She received her secondary education in Bulawayo, Zimbabwe, where she matriculated at the Solusi Secondary school in 1992. In 1996, she obtained a Bachelor of Science (BSc) in Home Economics at Andrews University, Michigan in the USA and completed a Bachelor of Science (BSc) in Home Economics with Honours at Stellenbosch University in 1998. Thereafter she completed her Master of Technology (MTech) in Food and Nutrition in Pretoria in 2015. She started her career as Food Selector at Woolworths Head Office in Cape Town in 2000. Currently, she is a lecturer at the Walter Sisulu University in East London, Eastern Cape.

With her thesis titled: **THE RELATIONSHIP BETWEEN FOOD-INSECURE HOUSEHOLDS AND THE PREVALENCE OF ACUTE MALNUTRITION IN CHILDREN RESIDING IN THE INFORMAL URBAN SETTLEMENT OF GOMPO VILLAGE, SOUTH AFRICA**, the candidate makes a contribution to existing body of knowledge concerning food insecure households and its impact on children. Using a quantitative approach, 500 households participated in the survey, in addition to secondary anthropometric data from six clinics in Gompo Village. The results highlighted the reliance of food insecure households on social grants as their main source of income, poor household dietary diversity with regard to food and a propensity for children to be overweight or obese. With this contribution, she developed guidelines for possible future intervention programmes to address these challenges attempting to reduce household food insecurity in her community.

**Promoter:** Dr Natasha Cronjé

**Co-Promoter:** Dr I van der Merwe, Prof W Oldewage-Theron

## DOCTOR OF PHILOSOPHY MAJORING IN ENVIRONMENTAL MANAGEMENT

**OTUNOLA, Beatrice Omonike**

Beatrice Omonike Otunola was born on the 15th of December 1992 in Ilorin, Nigeria. She attended Smith Baptist Academy, Ogbomoso and Anglican Grammar School, Ilorin for her Secondary School Education. Between 2011-2018, Beatrice attended the University of Fort Hare, South Africa, where she obtained the following degrees: BSc Geology (2015), BSc (Hons) Geology (2016) and MSc Geology (2018). In August 2019, Beatrice enrolled for her PhD degree in Environmental Management at the University of the Free State (UFS) South Africa, which she has just completed. Her research interest is on eco-friendly, economical and feasible environmental remediation options.

With her thesis titled: **ATTAPULGITE AND BENTONITE ASSISTED PHYTOREMEDIATION OF HEAVY METAL POLLUTED SOIL AND WATER: CASE STUDY OF A POST-MINING AREA IN THE FREE STATE PROVINCE, SOUTH AFRICA**, the candidate contributes to scholarship on the quest for sustainable solutions to environmental problems and remediation of polluted soil and water. The study combined Attapulgite/Bentonite with Vetiver grass or Indian mustard plants for the remediation of polluted soil and water from Sasol mining area of the Free State Province, South Africa. Results showed that Attapulgite combined with Vetiver grass is most suitable for heavy metals polluted soil, while bentonite combined with Vetiver grass is best for heavy metals contaminated water. Beatrice showed that attapulgite added at 2.5% (w/w) improved



phytostabilization properties of Vetiver for chromium, cobalt, copper and zinc in soil and that bentonite added at 2.5% (w/v) was best for aluminium and manganese removal in contaminated water.

**Promoter:** Prof O Ololade

**Co-Promoters:** Dr M Thwala, Dr MP Aghoghowia

### **SCHOEMAN, Yolandi**

Yolandi Schoeman was born on 10 March 1982 in Barberton, Mpumalanga. She matriculated at Barberton High School in 1999 and later attained a Master of Environmental Management at the University of the Free State in 2011. She also graduated with a MPhil degree at Monash University in 2017. Her career in environmental sciences include entrepreneurial innovations, various research outputs and contributing to world-class sustainability and planetary health-related innovations and solutions specifically in the USA, Europe, Russia, Australia, and Africa.

With her thesis titled: **A ZERO-WASTE MULTI-CRITERIA DECISION-SUPPORT MODEL FOR THE IRON AND STEEL INDUSTRY IN DEVELOPING COUNTRIES IN SOUTHERN AFRICA**, the candidate contributes to the understanding of manufacturing wastes and eliminating unnecessary waste creation at the initial phases of iron and steel production through green production and system-engineering principles. The results of this investigation include an alternative approach as the industrial zero waste tiered analysis model (i-ZEWATA) in managing iron and steel waste that not only addresses environmental contamination but also limiting the impact on human health and unlocking value in iron and steel waste that can contribute to the triple bottom line of iron and steel manufacturing facilities. The investigation demonstrated that iron and steel waste can be identified, visualized, prioritized and managed to promote zero waste by applying a hybrid systems-engineered approach.

**Promoter:** Prof PJ Oberholster

**Co-Promoter:** Prof V Somerset

### **DOCTOR OF PHILOSOPHY MAJORING IN FORENSIC GENETICS**

#### **LUCASSEN, Anton**

Anton Lucassen was born on 8 April 1967 in Klerksdorp, North West Province, South Africa. He matriculated at Schoonspruit High School in 1985 and attained a B.Med.Sci and B.Sc (Hons) degree at the University of Pretoria from 1990 to 1994. He further attained an M.Tech degree from the Tshwane University of Technology in 2006. His career in the South African Police Service began in 1991 where he is currently employed as a Chief Forensic Analyst. He is also an affiliated lecturer at the University of the Free State.

With his thesis titled: **ALLEL FREQUENCIES AND DNA MIXTURES IN THE HUMAN FORENSIC ENVIRONMENT IN SOUTH AFRICA**, the candidate established an allele frequency database for criminal cases in South Africa. The Combined Probability of Inclusion (CPI)-method and DNAVIEW® Mixture SolutionTM, a fully continuous probabilistic method, were compared to interpret Low-Template DNA mixtures. Further, a protocol for the implementation of the probabilistic genotyping method for the interpretation of mixtures at the Forensic Science Laboratory of the South African Police Service was presented. The protocol will guide the laboratory and ensure a smooth, rapid and accountable implementation of the new method. The probabilistic software will assist in analysing complex Low-Template-DNA mixtures which will finalise mixtures faster and reduce the backlog in the analysis of DNA cases.

**Promoter:** Dr K Ehlers

**Co-Promoter:** Prof JP Grobler



## DOCTOR OF PHILOSOPHY MAJORING IN GENETICS

**ACHILONU, Conrad Chibunna**

Conrad Chibunna Achilonu was born in Nigeria where he completed his primary and secondary education. He obtained his Bachelor of Science in Biochemistry, Bachelor of Science (Honours) in Botany, Master of Science in Genetics and PhD in Genetics, in collaboration with the Plant Pathology division, all at the University of the Free State. He is an emerging research scientist with publications in peer-reviewed journals. He has special interest in microbial interactions in infectious diseases, fungal biology, mycology, molecular biology, green synthetic nanoparticles leading to novel drug discoveries and the amelioration of diseases caused by microbial pathogens. He is a registered member of the Southern African Society for Plant Pathology (SASPP), American Phytopathological Society (APS), Mycology Society of America (MSA), and the Genetics Society of America (GSA). He is currently appointed as a post-doctoral fellow at the department of Plant Sciences, UFS.

With his thesis titled: **ALTERNARIA ALTERNATA ASSOCIATED WITH BLACK SPOT DISEASE ON PECANS (CARYA ILLINOINENSIS) IN SOUTH AFRICA**, the candidate appraised the occurrence and risk of Alternaria black spot (ABS) disease caused by Alternaria alternata on pecans in South Africa. The outcome of this study established that ABS disease on pecans is caused by the important and cosmopolitan fungus *A. alternata*. In addition, the candidate gathered knowledge on the exact distribution of the pathogen in South Africa and unravelled its population structure to ultimately facilitate disease management practices, which is crucial for the development of a disease control plan. Fungicides and pecan plant extracts also proved useful in controlling the pathogen. His study provided a strong foundation on which further studies on the ecology, disease-causing abilities, and antifungal applications can develop towards an integrated pathogen management program by the South African pecan industry.

**Supervisor:** Dr M Gryzenhout

**Co-Promoters:** Dr GJ Marais, Dr S Ghosh

## DOCTOR OF PHILOSOPHY MAJORING IN GEOHYDROLOGY

**BUDELI, Tshanduko**

Tshanduko Budeli was born in Tshilamba on 21 September 1995. She matriculated at Thengwe High School in 2013. She obtained a BSc degree in Geology specialisation in 2016 at the UFS. She continued her studies at the UFS and completed her BScHons majoring in Geohydrology in 2017, and MSc majoring in Geohydrology with distinction in 2018, and was awarded the Dean's Medal and the Senate Medal for outstanding performance in 2018 by the UFS.

With her thesis titled: **MODELLING THE UP FLOW OF LEAKAGE FROM CARBON DIOXIDE REPOSITORY IN SALINE AQUIFERS ALONG FRACTURED ROCK MEDIA**, the candidate contributes to the simulation of fracture-conducted free phase CO<sub>2</sub> leakage; brine leakage; multiphase CO<sub>2</sub> and brine leakage; simultaneous CO<sub>2</sub> and brine leakage; and reactive brine leakage from a CO<sub>2</sub> storage aquifer. With this contribution, she attempts to advance the fluid leakage simulation in the context of geologic CO<sub>2</sub> storage by attaining the effects of fracture morphology, non-locality, and memory on leakage flow. Fluid flow models were improved by the application of random walk theory, fractional, fractal, and fractal-fractional differentiation; more accurate and proficient numerical solutions were obtained. The study confirmed the use of random walk theory, fractional, fractal, and fractal-fractional derivatives in improving the precision of modelling outcomes; the improved models can be applied to address leakage of possible groundwater contaminants from subsurface depositories.

**Promoter:** Prof A Atangana

**MORAKALADI, Makosha Ishmaeline Charlotte**

Makosha Ishmaeline Charlotte Morakaladi was born on 15 April 1996 in Motong wa Perekisi in Limpopo, South Africa. She matriculated at Motse Maria Secondary School in 2014. She obtained a BSc Degree in Geology in 2018 and a BSc Honours in



Mining Geology in 2019 at the University of Limpopo. She later attained her Master of Science in Geohydrology with distinction in 2020 at the University of the Free State.

With her thesis titled, **PIECEWISE AND STOCHASTIC APPROACHES TO MODELLING A CONVERSION OF FLOW FROM CONFINED TO UNCONFINED**, the candidate improves the existing model that depicts the conversion of flow from confined to unconfined aquifers. The solution that depicts such behaviour is developed upon the concept of rate of change, moreover, the model is based upon one aquitard setting. This kind of mathematical model cannot be used for accurate prediction. Thus, in her work, the candidate developed new models that consider groundwater movement in heterogeneous systems. The concept of nonlocal operators was employed to include in the mathematical model processes such as a power law, fading memory and crossover behaviours, and to make use of piecewise and stochastic approaches. The results of this study from simulations obtained depict crossover behaviours from a fast to slow decline in the water level, long-tailed behaviours and lastly a rise in the water level due to recharge or water trapping released due to the force induced during abstraction.

**Promoter:** Prof A Atangana

## DOCTOR OF PHILOSOPHY MAJORING IN AGROMETEOROLOGY

**THARAGA, Phumudzo Charles**

Phumudzo Charles Tharaga was born on 15 May 1984 in Raliphasha village, Limpopo Province, South Africa. He started his primary education at Raliphasha Primary School in 1990 to 1995 and matriculated from Patrick Ramaano Secondary School in 2001. Aided by a bursary from the Landbank, he obtained a B.Sc. Agric. and Hons degree majoring in Agrometeorology from the UFS in 2012. He completed his M.Sc. Agric. degree majoring in Agrometeorology in 2014. He started his career in 2012 at ABSA Bank Agri-Insurance division as an Agrometeorologist. In 2013 he also worked as a Senior Scientist in Climate Information for the South African Weather Service (SAWS) until April 2015. The candidate also served as a Research Technologist at CSIR, where his Ph.D. idea emerged. In 2016 he joined the University of the Free State as a Lecturer.

With his thesis, titled: **QUANTIFYING WATER USE AND PRODUCTIVITY OF RAINFED SWEET CHERRY (*PRUNUS AVIUM L.*) ORCHARDS IN THE EASTERN FREE STATE OF SOUTH AFRICA USING MICROMETEOROLOGICAL TECHNIQUES**, the candidate quantified the water use of sweet cherry trees under rainfed conditions using Eddy Covariance and stem Sap flow measurements. The candidate contributes to the knowledge of sweet cherry trees' water requirements for specific growth stages. The candidate also established the basal crop coefficient ( $K_{cb}$ ) and stress coefficient factor ( $K_s$ ) for sweet cherries under rainfed conditions. In the study, the diurnal patterns of carbon dioxide flux density ( $F_c$ ), evaporation ( $E$ ), gross primary production (GPP), and ecosystem water-use efficiency (EWUE) were determined. As the country often faces water scarcity and an evident increase in sweet cherry production, it is crucial to raise the knowledge and understanding of trees' water consumption to enhance water use efficiency. Therefore, based on the study's findings, producers need to take precautions during the beginning of flowering and fruit development to reduce vulnerability to water stress. Part of the study has been presented at various local and international conferences, and two papers have been published in peer reviewed journals.

**Promoter:** Dr W.A. Tesfuhuney

**Co-Promoters:** Dr G.M. Coetzer, Prof M.J. Savage

## DOCTOR OF PHILOSOPHY MAJORING IN MICROBIOLOGY

**COETSEE, Elke**

Elke Coetsee was born in Boksburg, Gauteng, on 18 January 1986. She received her secondary education in Boksburg, Gauteng, where she matriculated at Hoërskool Dr. E.G Jansen in 2004. She obtained her B.Sc. degree in Microbiology in 2009 from the University of Pretoria. She then continued with post graduate studies at the University of the Free State where she obtained a B.Sc. Microbiology Hons degree in 2010, a M.Sc. degree in Microbiology in 2013 and a PhD in Microbiology



in 2022. She started her career in the Clinical Research Industry in 2018 and is currently working at Parexel International as a Project Specialist.

With her thesis titled: **INVESTIGATION INTO THE PRESENCE OF HP2-LIKE AND MU-LIKE PROPHAGES WITHIN THE GENOMES OF THE MOST PREVALENT SEROVARS OF AVIBACTERIUM PARAGALLINARUM IN SOUTH AFRICA**, the candidate investigated the presence of lysogenic bacteriophages in the genome of the four common South African serovars of *Avibacterium paragallinarum*, which causes the disease infectious coryza in layer chickens. The main focus of her research was to attempt to relate the presence or absence of bacteriophage sequences to virulence difference which has been seen in the different serovars of the bacterium. Attempts were made to induce the bacteriophages into the lytic state to isolate the bacteriophages. The methodology included, long range PCR to screen for the presence of complete HP2-like and Mu-like bacteriophages within the genome of *Av. paragallinarum* reference isolates 221 (A-1); 2671 (B-1); Modesto (C-2) and SA-3 (C-3) where complete HP-2-like and Mu-like prophages were amplified. All phage fragments were sequenced on the Illumina® MiSeq sequencing platform and assembled and analysed by the use of various available bioinformatics tool.

**Promoter:** Prof RR Bragg

**Co-Promoter:** Dr. CE Boucher

## **MOKOENA, Nthabiseng Zelda**

Nthabiseng Zelda Mokoena (28) was born in Sebokeng, Qwaqwa on 25 September 1994. She received her secondary education at Thokoana Makaota Secondary School in Qwaqwa and matriculated in 2011. After this, she obtained her BSc degree in 2014 at the University of the Free State and pursued her postgraduate studies in Microbiology with a BSc Hons in 2015 and Masters in 2018 at the same institution. She then furthered her passion for research at the University of the Free State through obtaining her PhD in Microbiology this year (2022) and started a postdoctoral fellowship at the University of Pretoria.

With her thesis titled: **THE INFLUENCE OF POLYUNSATURATED FATTY ACIDS ON CANDIDA ALBICANS AND PSEUDOMONAS AERUGINOSA INFECTIONS OF CAENORHABDITIS ELEGANS**, the candidate contributes to knowledge regarding the effect of polyunsaturated fatty acids, especially eicosapentaenoic acid, in the response of the non-vertebrate host, the nematode *Caenorhabditis elegans*, to infection. She found that eicosapentaenoic acid, primes the host's the immune response to *Candida albicans*. In addition, the host can convert this fatty acid to an oxidized metabolite (17,18 -eicosatetraenoic acid) via cytochrome P450 enzymes. This metabolite is able to inhibit the formation of tissue penetrative hyphae by *Candida albicans*, both in vitro and in vivo. Since humans are also able to produce 17,18 -eicosatetraenoic acid this work may contribute to the search for novel compounds that can inhibit the pathogenicity of *Candida albicans* in human hosts. The candidate has already published one paper from her thesis, with another currently under review.

**Promoter:** Prof CH Pohl-Albertyn

**Co-Promoter:** Prof J Albertyn

## **DOCTOR OF PHILOSOPHY MAJORING IN PLANT BREEDING**

### **ENGIDA, Bitew Tilahun**

Bitew Tilahun Engida was born in a small village in the Amhara region, Ethiopia, in September 1986. He obtained a BSc degree in Crop Production from Ambo University in 2008 and an MSc in Plant Breeding from Haramaya University, Ethiopia, in 2016. He worked in crop production at the Amhara Agriculture and Rural Development Office from December 2008 to August 2011. In September 2011, he joined the Ethiopian Institute of Agricultural Research (EIAR) based at the Bako National Maize Research Center as a breeder and he has been actively participating in the national maize breeding programme team.



With his thesis titled: **ABIOTIC STRESS TOLERANCE AND NUTRITIONAL VALUES OF NEWLY DEVELOPED QUALITY PROTEIN MAIZE HYBRIDS IN SUB-SAHARAN AFRICA**, the candidate determined the performance, variability and stability of newly developed quality protein maize (QPM) hybrids for grain yield, tryptophan, zinc and iron concentrations, and bioavailability of zinc and iron under optimal, drought and low nitrogen conditions. Anthesis silking interval had a relatively high genetic coefficient of variation and genetic advance value, indicating that synchronisation, and consequently yield, can be improved through selection. Some QPM hybrids showed better or comparable performance for grain yield and nutritional value with the best QPM and normal maize checks, indicating the genetic gain that has been made in QPM breeding. The importance of secondary traits in developing high yielding and early maturing genotypes was emphasised. Grain yield and nutritional traits were inherited independently, indicating the possibility of their simultaneous improvement.

**Promoter:** Prof MT Labuschagne

**Co-Promoters:** Dr A van Biljon, Dr A Tarekegne

#### **MATONGERA, Nakai**

Nakai Matongera was born in Masvingo, Zimbabwe, in June 1985. She obtained a BSc Honours degree (Crop Science) from the University of Zimbabwe in 2008 and an MSc (Plant Breeding and Genetic Resources) from Wageningen University in the Netherlands, in 2013. She was a plant breeder at the Crop Breeding Institute in the Department of Research and Specialist Services in Zimbabwe from 2009-2021 after which she joined the Scientific and Industrial Research and Development Centre (Zimbabwe) as a plant breeder. Development of climate-resilient crop varieties is among her top breeding priorities.

With her thesis titled: **GENETIC IMPROVEMENT OF ZINC CONTENT IN GRAIN OF NORMAL, PROVITAMIN A AND QUALITY PROTEIN MAIZE** the candidate developed multi-nutrient biofortified maize through the introduction of genes for increased zinc concentration into three groups of maize genotypes. These were maize already biofortified with the essential amino acids lysine and tryptophan (quality protein maize or QPM), orange maize with high levels of provitamin A, and normal (non-biofortified) maize. Hybrids were tested for yield potential and stability, and nutritional value, under optimal and abiotic stress conditions. Iron and zinc content were highly correlated, and sufficient variability for the anti-nutrient, phytic acid, was available to select for improved bioavailability of these minerals. High zinc levels lead to a moderate yield penalty, which should be addressed by breeders. The QPM background accumulated higher levels of zinc than other backgrounds. Results from this study will contribute towards alleviating malnutrition in the southern African region.

**Promoter:** Prof MT Labuschagne

**Co-Promoters:** Dr A van Biljon, Dr T Ndhlela

#### **SENGWAYO, Sphamandla**

Sphamandla Sengwayo was born on 2 March 1988 near Pongola in KwaZulu-Natal. He matriculated at Intonga High School in 2007. He started his tertiary education in 2010 at the University of Zululand where he obtained a BSc Agronomy and BSc Honours degree with distinctions in 2014 and 2015, respectively. He attained his MSc degree with distinction at the University of the Free State in 2017. Sphamandla's career started in 2017 as a Research Intern at Monsanto where after he joined Omnia Fertilizer as an Agronomic Research Technician. He is currently employed as an Extension Officer at McCain Foods.

With his thesis titled: **GENETIC IMPROVEMENT OF DROUGHT TOLERANT MAIZE HYBRIDS UNDER A COMBINATION OF BIOTIC AND ABIOTIC STRESS CONDITIONS**, the candidate evaluated grain yield performance of currently available drought-tolerant, early-maturing maize hybrids under optimal, managed drought stress, random stress, low-nitrogen stress and maize streak virus conditions in order to identify multiple-stress tolerant hybrids for future use by smallholder farmers in eastern and southern Africa. Grain yield data on 44 pre-commercial hybrids were collected across five different stress management conditions in 28 test locations. Using various statistical analyses, specific hybrids showing above average grain



yield and stability for each of the five stress management conditions were identified. One hybrid, CZH16094, was identified as a multiple-stress tolerant hybrid. Five locations were identified as the most discriminative and representative environments and should be considered as ideal sites for selecting hybrids with improved grain yield under different biotic and abiotic stress conditions.

**Promoter:** Dr R van der Merwe

**Co-Promoters:** Prof MT Labuschagne, Dr AT Tarekegne, Dr NG Shargie

## DOCTOR OF PHILOSOPHY MAJORING IN PLANT PATHOLOGY

**MEIRING, Marlese Christine**

Marlese Christine Meiring was born in Bloemfontein, Free State on 22 July 1992. She received her secondary education in Bloemfontein, where she matriculated at Jim Fouche High School in 2010. She obtained her undergraduate and Honours degrees in Genetics, in 2014 and 2015, respectively, at the University of the Free State. Marlese graduated with her MSc Plant Health Ecology degree, with distinction, in 2018 also at the University of the Free State. She started her career as a Quality Assurance Auditor in Bloemfontein in July of 2022.

With her thesis titled, **SCLEROTINIA SCLEROTIORUM DISEASE POTENTIAL AND MANAGEMENT RESPONSES IN SOYBEAN AND SUNFLOWER**, the candidate contributes to understanding management practices associated with sclerotinia stem and head rot. Using a bibliographical analysis approach, she explored the most frequently researched management practices and identified future research opportunities within the Sclerotinia research community. Through multi-season and locality field trials, producers were provided with information on the escape resistance of soybean and sunflower cultivars. The efficacy of several diverse fungicides was investigated during field experiments, illustrating the potential to register these active ingredients for use against soybean stem rot. Furthermore, the use of both stubble burning and cattle grazing on reducing the viability of the sclerotial population and ultimately reducing disease potential for future seasons was determined. This research directly serves South African producer plant health inquiries and engages with the needs of the oilseed- and protein crop industry.

**Supervisor:** Dr L Rothmann

**Co-Promoter:** Prof NW McLaren

## DOCTOR OF PHILOSOPHY MAJORING IN SUSTAINABLE AGRICULTURE

**NTSHANGASE, Zamokwakhe Maureen**

Zamokwakhe Maureen Ntshangase was born on 06 September 1974 in Pongola area, Zululand, KwaZulu-Natal. She matriculated at Dingukwazi high school in 1993, thereafter did her first Diploma in Agriculture at Owen Sithole College of Agriculture in 2002. She graduated with a BTech in Agricultural Management at University of South Africa in 2012 and Masters in Sustainable Agriculture at the University of Free State in 2016. She began her career as a training officer and became a lecturer from 2004, she advanced in her career and became Head of department: Agriculture at Mthashana TVET college. In 2018, she joined Fort Cox Agriculture and Forestry Training Institute as the Head of department for Crop Production and Agricultural Engineering.

With her thesis titled: **SUSTAINABLE COMMERCIALIZATION OF GOAT PRODUCTION IN THE ZULULAND AREA OF KWA-ZULU NATAL IN SOUTH AFRICA**, the candidate contributes to scholarship on policies related to government support programmes on goat farming and integration of all role players, to achieve commercialization and realize the social and economic value of goats, thereby contributing to food security, poverty alleviation and economic development. Ntshangase sampled 170 respondents, including goat farmers, customers, extension officers, and retail / butcheries to understand the



production, marketing, and demand for goat products and government support to farmers. Among the challenges faced by goat producers; the lack of access to abattoirs and the butcheries that are willing to slaughter and sell goat meat are at the top of the list. On the other hand, the findings suggest that if goat meat is made available in retail stores, consumers are more inclined to buy it. The study presents the argument that poor goat marketing structure, culture, lack of information on goat's nutritional attributes and perceptions affects the commercialization of goat production regardless of its economic potential.

**Promoter:** Prof JA Van Niekerk

**Co-Promoter:** Dr MM Skwela

## DOCTOR OF PHILOSOPHY MAJORING IN URBAN AND REGIONAL PLANNING

**SEKYI-AMPAH, Thomas Eric**

Thomas Eric Sekyi-Ampah was born on 26 December 1948 in Kumasi Ghana. He obtained the Teachers Certificate in 1969, BA Hons degree from the University of Ghana in 1979 and the University of South Africa in 2000, and the degree of Masters in Urban and Regional Planning from the University of Free State in 2007. He started his career as an educator in Ghana, continued in Nigeria and South Africa, a senior town planner in a consultancy and a local municipality, and finally as a Deputy Director with the Department of Public Works and Infrastructure from 2016-2019.

With her thesis titled, **TOWARDS A SUSTAINABLE AND TRANSFORMATIVE SPATIAL GOVERNANCE SYSTEM FOR MUNICIPALITIES WITH TRADITIONAL LEADERS: A CASE STUDY OF ALFRED NZO DISTRICT MUNICIPALITY, EASTERN CAPE**, the candidate examined the potential for inclusive and sustainable spatial governance in the Alfred Nzo District, a poor rural area. Interviews were conducted with municipal officials, traditional leaders, local businesses and planners knowledgeable about the region. Although the traditional leaders are suspicious of SPLUMA, there is sufficient goodwill for cooperation with the local governments in the district. While the necessary plans and policies are in place, the main obstacles effective spatial governance are the constraints experienced by the municipalities – staff, finances and unstable political environment. Addressing these constraints and including traditional leaders in spatial planning and land use management processes will improve the area's sustainability.

**Promoter:** Prof V Nel

## DOCTOR OF PHILOSOPHY MAJORING IN ZOOLOGY

**BOTHA, Alexander Edward**

Alexander Botha matriculated at St Andrews School in 2010 and later obtained his B.Sc in Zoology in 2013. He furthered his education by obtaining his Honours degree in 2014 and was additionally awarded the IMP and ZSSA prizes for best honours student. He completed his M.Sc in 2017 through the National Museum, Bloemfontein, and his PhD in 2022. During his PhD he first-authored three scientific publications and a book chapter and co-authored an additional scientific publication. He is currently employed as a field technician at Panthera as part of the Arabian Leopard Initiative.

With his thesis titled: **BLACK-BACKED JACKAL (CANIS MESOMELAS) ECOLOGY IN THE EASTERN FREE STATE AFROMONTANE GRASSLANDS, WITH SPECIFIC REFERENCE TO DIET AND BEHAVIOUR**, the candidate contributes towards an improved understanding of mesopredator ecology by focusing on the impact of multiple environmental conditions and human pressures on black-backed jackal diet, behaviour, and control. His findings highlight the application of isotopic analysis in dietary investigations of mesopredators, and suggest that jackal diet varies between seasons, and along a human pressure gradient. His findings also highlight inter-individual variation in movement that is further influenced by fluctuating environmental conditions, including moon phase, season, and human pressure. Furthermore, his findings reiterate the



significant impact of lethal control on the environmental perceptions of jackals. His research provides novel techniques to study mesopredators and provides previously undocumented information that can be incorporated into agricultural and wildlife management practices.

**Promoter:** Prof A le Roux

### **BUTLER, Hendrikus Johannes Beukes**

Hendrikus Johannes Beukes was born in Harrismith on 19 March 1966. He received his secondary education in Dewetsdorp, where he matriculated at Hoërskool Christiaan de Wet in 1984. He obtained the degree B.Sc. Zoology in 1995, B.Sc. Zoology Hons in 1996 and the degree M.Sc. Zoology in 2004 at the University of the Free State. In 1989, he was appointed as Technician in the Department of Zoology and Entomology, University of the Free State; later, he was appointed as professional officer (1996) and then Lecturer (2005), teaching various undergraduate and postgraduate modules in Zoology, supervising postgraduate research projects, and conducting research that has already culminated in 15 peer-reviewed publications, three peer-reviewed book chapters, 22 contributions to local and international conferences, an oration as invited guest speaker at the University of Wageningen, Netherlands, and the graduation of 11 Masters students.

With his thesis titled: **BEHAVIOURAL ASPECTS OF ENZOOTIC GEOPHAGY AMONGST LARGE MAMMAL HERBIVORES**, the candidate contributes towards our understanding of geophagy, the deliberate ingestion of soil. He determined the physical, chemical, and mineralogical properties of ingested soils in habitats ranging from the southern Kalahari to the Highveld savanna. He then explored spatial and temporal variations in soil utilization by a variety of species, recording visitation rates to geophagic sites, activity times, and sex differences. Finally, based on analysis of the soil content and geochemical properties of animal dung, he demonstrated that i) herbivores are able to assimilate minerals from ingested soils, and ii) parasitic egg loads are reduced through geophagy. These findings demonstrate that soil ingestion proffers benefits to herbivores that outweigh costs such as tooth wear and gut impaction, creating new opportunities for understanding macroevolutionary trends in herbivore tooth and gut morphology, and their ecological interactions with the environment.

**Promoter:** Prof D Codron

**Co-Promoter:** Prof WA van der Westhuizen

### **KAMDEM, Michel Mathurin**

Michel Mathurin Kamdem was born on the 11th of February 1987 in Babong in the Loum Subdivision of Cameroon. He received his secondary education in Ngaoundere, where in 2000, he matriculated at the "Lycée Classique et Moderne de Ngaoundéré" and later obtained a Baccalauréat de l'enseignement secondaire in mathematics and earth and life sciences. At the University of Ngaoundéré he graduated with a Bachelor's Degree in Science and a Masters in Ecology (with distinction) in 2011 and 2015, respectively. In early 2018, he moved to South Africa to take up a PhD position in Environmental Toxicology in the Department of Zoology and Entomology at the University of the Free State (QwaQwa campus).

With his thesis titled: **DNA BARCODING INVESTIGATION OF SOUTH AFRICAN HOVERFLY SPECIES AND THEIR USE IN ENVIRONMENTAL TOXICOLOGY**, DNA barcoding to ascertain the taxonomy and diversity of hoverfly species (Diptera: Syrphidae) from the eastern Free State, South Africa. He further assessed larval requirements for mass rearing of the widely distributed hoverfly species *Eristalis tenax* and examined its survival and biomarker responses after exposure to the agrochemical imidacloprid. The occurrence of 15 hoverfly species from 9 genera was confirmed in the study area. Using simple and affordable methods, the candidate optimised ways for field larval collection and mass rearing of *E. tenax*, thereby providing useful information for the captive breeding of this cosmopolitan pollinator. Imidacloprid was found to be highly toxic to *E. tenax*, hampering its larval development and causing both neurotoxic and oxidative stresses. Although banned in



Europe and North America, imidacloprid, which is still commercially available in South Africa, is a threat to hoverflies and other pollinators.

**Promoter:** Dr P Voua Otomo

**SWANEPOEL, Pieter Johannes**

Pieter Johannes Swanepoel was born in Bloemfontein on 10 March 1990. He received his secondary education in Zastron, where he matriculated at the Hoërskool Zastron in 2008. He obtained the degree B.Sc. Zoology in 2011, B.Sc. Zoology Hons in 2012 and the degree M.Sc. Zoology with distinction in 2015 at the University of the Free State. In 2016, he was appointed as an Aquaculture Specialist in the Free State Department of Agriculture and Rural Development, working at the Aquaculture Technology Demonstration Centre, Gariepdam where he conducts research in the fields of inland fisheries and aquaculture.

With his thesis titled, **ASSESSING SMALL-SCALE FISHERIES POTENTIAL OF GARIEP DAM, SOUTH AFRICA'S LARGEST IMPOUNDMENT**, the candidate contributes towards the development of inland fisheries in South Africa in light of the recent approval of the National Freshwater (Inland) Wild Capture Fisheries Policy. Using a multifaceted approach, subsistence and recreational fisheries at Gariep Dam were quantified and described. The relative abundance, population structure, biology and ecology of potential fisheries species, with a specific focus on the sharptooth catfish, were investigated in order to set sustainable harvesting levels for the fishery species in Gariep Dam. The effectiveness and suitability of different gear types for use in inland fisheries were investigated, while economic models were proposed and tested to ensure the economic viability of small-scale fisheries. The study concluded with the development of a detailed small-scale fisheries management plan for Gariep Dam, a first for an impoundment in the Orange Vaal River System.

**Promoter:** Dr LM Barkhuizen

**Co-Promoters:** Prof LL van As, Dr B Ellender



DEAN |  
**PROF RS LETŠOSA**

## CERTIFICATES

### HIGHER CERTIFICATE IN THEOLOGY

DLAMINI, Nkosingiphile  
Samukeliswe

DYOLANE, Abulela Jill

GASA, Nkosinathi Melusi

LEBUSHO, Boitumelo Promise

LUWI, Ashley Soletu

MATSHOBA, Sihle

MOAGI, Tokelo Dawn

NKOSI, Philile Zama

NYAMBI, Shirley Zinhle

ZULU, Siyabonga Mphathiwezwe

## HONOURS DEGREES

### BACHELOR OF THEOLOGY HONOURS WITH SPECIALISATION IN RELIGION STUDIES

MOTAUNG, Sejake Petrus\*

## MASTER'S DEGREES

### MASTER OF ARTS IN BIBLE TRANSLATION

DIRADITSILE, Pholoso Victor

LEFEBO, Mulugeta Hailu

## BACHELOR'S DEGREES

### BACHELOR OF DIVINITY

GALANT, Angelo Cavin

KHULU, Thandeka Zandile

## DIPLOMAS

### ADVANCED DIPLOMA IN THEOLOGY

DUMA, Matsietso Josephine

TAKANG, Tshiamo Ronald\*



## DOCTORAL DEGREES

### DOCTOR OF PHILOSOPHY WITH SPECIALISATION IN MISSIONALITY

#### BADE, Bakande Michee

Michée was born in Man, Côte d'Ivoire (Ivory Coast) on 19 January 1971. He obtained his GED from Griggs University in 1992, a BA Theology from Andrews University in 2001 and a MA Theology in Missiology in 2015 with merit from the University of the Free State. Michée is an ordained minister of the Seventh-day Adventist Church and has worked as district pastor, associate chaplain, departmental director in Ivory Coast and Burkina Faso from 1996 to 2005. He worked in North-East Benin for 10 years as a church planter and he is currently serving in the Maghreb.

With his thesis titled, **THE CONTRIBUTION OF PAUL HIEBERT TO FOLK RELIGION: A MISSIONAL STUDY AMONG THE DENDIS OF NORTH-EAST BENIN**, the candidate examined key missiological insights of well-known missiologist and anthropologist, Paul Hiebert, and applied them to the folk religion of the Dendis of North-East Benin. Suggesting that early attempts at mission to folk Islam were mostly dialectic with very little success, the candidate gave a special attention to Paul Hiebert's concepts of the "excluded middle" and three-tiered view of the universe. With a descriptive and evaluative approach, the candidate combined literature study with ethnographic study among the Dendis. The candidate's qualitative analysis of the field work with Atlasti.9 led to a specific set of innovative recommendations for missional efforts to the Dendi people of North-east Benin. According to the candidate's conclusions, life crises or special events in the life of the Dendi people call for radical shifts or paradigm shifts, and a mission strategy that focuses on their felt needs would be most efficient.

**Promoter:** Prof P Verster

### DOCTOR OF THEOLOGY WITH SPECIALISATION IN SPIRITUALITY

#### VAN WYK, Carel Petrus

Carel van Wyk was born in Keimoes, North-Western Cape province, on 8 June 1957. He received his secondary education in Keimoes, where he matriculated at the Keimoes High School in 1975. He obtained the degree BA (Admissie) in 1979 at the University of the Free State, the degree BTh in 1982 at the University of Stellenbosch, the Diploma of Theology in 1983 at the University of Stellenbosch, and the MTh degree with distinction in 2017 at the University of the Free State.

With his thesis titled: **DIE MIGRASIE VAN TRADISIONELE GODSDIENSBEOEFFENING NA SPIRITUALITEIT: BEDIENINGS-PRAKTYKE AAN POST-KERKLIKES** (The migration from traditional religious practice to spirituality: Ministries to post-ecclesiastics), the candidate indicates that Mainline Christian Churches in the Western world experience a decline in membership numbers and attendance of public worship services. In a world where globalisation, postmodernism, secularisation, and The Fourth Industrial Revolution excessively influence people, alienation from themselves, their fellow human beings, and the Deity occurs. Simultaneously, however, there is a growth and interest in the concept of spirituality, especially among the Millennial and Generation Z generations. The study design was conducted from a practical theological orientation, engaging with and reflecting on important new empirical research perspectives from different contexts. The thesis is an attempt to revisit Christian spirituality, mysticism, and spiritual disciplines, and to suggest possible ministries for post-ecclesiastics. The thesis wants to offer direction to searching people in disruptive times, and to suggest possible ministries to church leaders.

**Promoter:** Prof JA Van den Berg



# THE SEANAMARENA THE TRADITIONAL BASOTHO BLANKET

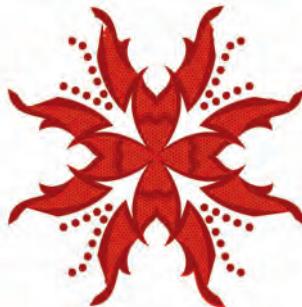
## The Main Procession Graduation Gowns – embroidered with rich diversity

**S**outh Africa, and the Free State in particular, has a long-standing friendship with our neighbouring country, Lesotho.

Through a shared history, we have become co-creators of our futures. For this reason, the UFS decided to incorporate our tradition with that of the Basotho in the design of our Main Procession graduation gowns.

The gowns are inspired by the Seanamarena – the traditional Basotho blanket. The different patterns on the Seanamarena indicate the status one holds in the Basotho nation or reflect the occasion being celebrated. Keeping the Seanamarena pattern in mind, we combined our traditional academic designs with that of the Basotho nation.

## YOKE PATTERNS



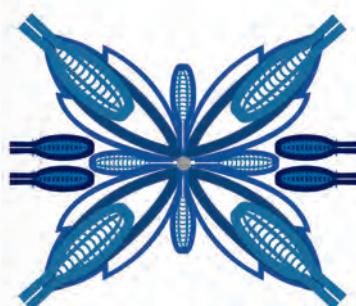
### Yoke pattern for the Chancellor and Vice-Chancellor

This Seanamarena pattern is an interpretation of a design used exclusively for the king and chiefs – which means 'to swear by the king'. This blanket has the highest status of all Basotho blankets.



### Yoke pattern for the Chairperson of the Council

This Seanamarena Victorian crest motif appeared after the visit of the Prince of Wales to Lesotho in 1925, which made a profound impression on the local people. Customers refer to this blanket as 'lesiba' – meaning feathers – when buying it.



### Yoke pattern for the Vice-Rector

This Seanamarena Poone design symbolises good crops, wealth, and fertility. The Poone is given as a present to honour an important visitor.



### Yoke pattern for Registrar

The same Seanamarena Poone design used for the Vice-Rector applies to the Registrar, with some slight design and colour alterations.

The Deans wear gowns made in the colours of the faculties, or others which indicate the office they hold.

A black graduation cap with a red tassel is positioned in the upper left corner. A white and red rolled-up diploma is in the upper right corner.

# 2022

**#UFSAlumni #UFSGrad**

## CONGRATULATIONS CLASS OF 2022

Congratulations on your graduation! This officially makes you an alumnus of the University of the Free State. We are very proud of your achievements, excited to see what your future holds, and to connect with you in the bright future ahead of you!

### KEEPING YOU INFORMED

Alumni are a real measure of a university's brand, and we strive to keep you informed of the latest news, campaigns, events, reunions, and projects emerging from the UFS. Stay connected by keeping an eye on our website, Facebook and LinkedIn pages, and email.

Through us, you are not just staying connected with the UFS, but also with other alumni. Let us connect you with alumni globally and reconnect with former peers.

**Kindly ensure you include your full names, date of birth, cellphone number, and private email address when updating your details.**

### KEEPING YOU CONNECTED

Not only do we want to keep you connected with what is happening at your alma mater, we want to keep on celebrating you too!

Make sure that you update your details every year in one of the following ways:

- Online at [www.ufs.ac.za/alumni](http://www.ufs.ac.za/alumni)
- Email us at [alumni@ufs.ac.za](mailto:alumni@ufs.ac.za)
- [www.facebook.com/UFS.Alumni](http://www.facebook.com/UFS.Alumni)
- [www.linkedin.com/school u-f-s](http://www.linkedin.com/school u-f-s)

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*Inspiring excellence, transforming lives  
through quality, impact, and care.*

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Renewal and Reimagination  
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