

# PROGRAMME QWAQWA CAMPUS

## ROLIHLAHLA MANDELA HALL | QWAQWA CAMPUS

### CONSTITUTION OF THE CONGREGATION AND OFFICIAL WELCOME

Rector and Vice-Chancellor  
Prof FW Petersen

### INTRODUCTION OF GUEST SPEAKER

Acting Campus Vice-Principal: Academic and Research  
Dr J McDonald

### GUEST SPEAKER

Dr MD Saurombe  
Youngest Female PhD Graduate in Africa (2017)  
Senior Lecturer: UFS

### MUSICAL ITEM

"Kalamazoo"  
Music by I Mohammed-Jan  
Performed by Mr N Dweba, Mr A Mostert (saxophone) and Mr W Louw (keyboard)  
Accompanied by The Graduation Instrumental Ensemble under the direction of Mr A Esterhuysen

### PRESENTATION OF CANDIDATES: FACULTY OF EDUCATION

Assistant Dean: Education  
Dr CT Tsotetsi

### AWARDING AND CONFERMENT OF QUALIFICATIONS

Rector and Vice-Chancellor  
Prof FW Petersen

### PRESENTATION OF CANDIDATES: FACULTY OF THE HUMANITIES

Acting Assistant Dean: The Humanities  
Mr G Magaiza

### AWARDING AND CONFERMENT OF QUALIFICATIONS

Rector and Vice-Chancellor  
Prof FW Petersen

### MUSICAL ITEM

"Pata Pata"  
Music by M Makeba and J Ragovoy  
Performed by the UFS Qwaqwa Campus Chorale under the direction of Mr S Khumalo  
Accompanied by The Graduation Instrumental Ensemble under the direction of Mr A Esterhuysen

### PRESENTATION OF CANDIDATES: FACULTY OF NATURAL AND AGRICULTURAL SCIENCES

Assistant Dean: Natural and Agricultural Sciences  
Prof AOT Ashafa

### AWARDING AND CONFERMENT OF QUALIFICATIONS

Rector and Vice-Chancellor  
Prof FW Petersen

### CONGRATULATORY MESSAGE

Rector and Vice-Chancellor  
Prof FW Petersen

### NATIONAL ANTHEM OF SOUTH AFRICA

Led by UFS Qwaqwa Campus Chorale and accompanied by the Graduation Instrumental Ensemble under the direction of Mr A Esterhuysen

### DISSOLUTION OF THE CONGREGATION

Rector and Vice-Chancellor  
Prof FW Petersen

17 MAY 2019 | 10:00



# NATIONAL ANTHEM OF SOUTH AFRICA

## Nkosi sikelel' iAfrika

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

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

- |   |   |
|---|---|
| <ul style="list-style-type: none"><li>▪ Please stand as the procession enters the hall</li><li>▪ Do not move around during the ceremony in order to take photos</li><li>▪ Please refrain from unacceptable actions such as whistling</li><li>▪ Please put your cellphone on silent so as not to disturb the proceedings</li><li>▪ We strive to conduct the ceremonies in a dignified manner</li></ul> | <ul style="list-style-type: none"><li>▪ Please do not leave the hall before the graduation proceedings have been concluded</li><li>▪ Family and friends unable to attend may watch the full graduation ceremonies through our livestream link at <a href="http://livestream.ufs.ac.za">http://livestream.ufs.ac.za</a>.</li></ul> |
|---|---|



## ABOUT THE UFS

The University of the Free State (UFS) is one of the oldest institutions of higher education in South Africa.

It opened its doors in 1904 in Bloemfontein as the Grey University College, with six students in the Humanities. Since then, the institution has grown to more than 40 000 students, spread over three campuses and across seven faculties (Economic and Management Sciences, Education, Health Sciences, the Humanities, Law, Natural and Agricultural Sciences, Theology and Religion).

Most of the students are located on the Bloemfontein Campus, with the Qwaqwa Campus situated in the picturesque Eastern Free State, serving a rapidly-growing number of rural students from the immediate area and surrounding provinces. The South Campus – also situated in Bloemfontein – serves as the centre for distance-learning programmes offered by the UFS, as well as alternative access to higher education for promising students who have not obtained the required marks in their final school examinations.

Over the years, the university has grown into an education hub which has positioned itself on the global stage, promoting research excellence, with exceptionally talented scholars and students who are recognised the world over, as well as alumni who have grown into influential leaders in society.



# 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.



**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.

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





# GRADUATION CEREMONY 2019

## Honorary Awards | Honorary Doctorates

1950	GLP Moerdyk – DLitt (h.c.)		A Polson – DPhilMed (h.c.)		GJ Gerwel – DPhil (h.c.)
1951	NC Havenga – LLD (h.c.)		J du P Scholtz – DPhil (h.c.)		WD Jonker – DTh (h.c.)
1952	Thos Blok – DEd (h.c.)	1986	S Grové – DMus (h.c.)		A Krog – DLitt (h.c.)
	SHS Rubidge – DSc (h.c.)		FP Retief – DMed (h.c.)		K Mokhele – DPhil (h.c.)
1955	CR Swart – LLD (h.c.)		JA Stegmann – DCom (h.c.)		CJC Nel (Postuum) – PhD (h.c.)
	CA v Niekerk – LLD (h.c.)	1987	WA Joubert – LLD (h.c.)		L Quayle – DMus (h.c.)
1958	CPB Brink – LLD (h.c.)		B Kok – DPhil (h.c.)		T (Karel) Schoeman – DLitt (h.c.)
	CF Visser – DEd (h.c.)		WP Venter – DCom (h.c.)		YK Seedat – DMed (h.c.)
1959	DB Bosman – DLitt (h.c.)	1988	JJN Cloete – DAdmin (h.c.)		MK Seely – DSc (h.c.)
	SP le Roux – DScAgric (h.c.)		FC Fensham – DLitt (h.c.)		C Seerveld – DPhil (h.c.)
	DF Malherbe – DLitt (h.c.)		JW vd Riet – DPhil (h.c.)		F van Z Slabbert – DPhil (h.c.)
	GH v Rooyen – MA (h.c.)	1989	BJ Meyer – DSc (h.c.)		JC Steyn – DLitt (h.c.)
1960	SPE Boshoff – DLitt (h.c.)		N van Uden – PhD (h.c.)		PA Verhoef – DTh (h.c.)
1961	T Boydell – DPhil (h.c.)	1990	MG Corbett – LLD (h.c.)		L van den Heever – LLD (h.c.)
1962	ES Botes – DEd (h.c.)		JS Rabie – DLitt (h.c.)		HA Wessels – LLD (h.c.)
	PE Rousseau – DSc (h.c.)	1991	SS Brand – DCom (h.c.)	2005	A du P Heyns – DMed (h.c.)
1963	EH Louw – LLD (h.c.)		JWL de Villiers – DSc (h.c.)		JJF Durand – DPhil (h.c.)
	EN Roberts – DSc (h.c.)		GT Fagan – DArch (h.c.)		JA Groenewald – DSc (h.c.)
	JGF (Kaalkop) vd Merwe – DCom (h.c.)		JH Hofmeyer – PhD (h.c.)		WH Neuser – DTh (h.c.)
	HF Verwoerd – DLitt et Phil (h.c.)		E v Heerden – DLitt (h.c.)		M Ramos – PhD (h.c.)
1966	PSZ Coetzee – DPhilTh (h.c.)	1992	JP Louw – DLitt (h.c.)		SJ Terreblanche – DCom (h.c.)
	PJ du Toit – DSc (h.c.)		H Olivier – DSc (h.c.)	2006	T Moss – PhD (h.c.)
	MS Louw – DCom (h.c.)	1993	JD Anderson – DMed (h.c.)		PV Cox – PhD (h.c.)
1967	SM Naudé – DSc (h.c.)		RR Arndt – DSc (h.c.)	2007	BJ (Bannie) Britz – DArch (h.c.)
	LC Steyn – LLD (h.c.)		SJ Naudé – LLD (h.c.)		KPD Maphalla – PhD (h.c.)
	BJ Vorster – LLD (h.c.)	1994	JJ Human – DPhil (h.c.)	2008	D Ferreira – DSc (h.c.)
1968	SJ Naudé – DCom (h.c.)		JA Myburgh – DMed (h.c.)	2009	JC Loock – PhD (h.c.)
1969	CW (Nellie) Swart – DPhil (h.c.)		JP vd Walt – DSc (h.c.)		LTC Harms – LLD (h.c.)
	AJJ Wessels – DCom (h.c.)	1995	WA Landman – DEd (h.c.)	2010	P Gordhan – PhD (h.c.)
1970	GS Nienaber – DLitt (h.c.)		WL Mouton – DPhil (h.c.)		BBS Ngubane – PhD (h.c.)
	HO Mönnig – DSc (h.c.)	1996	WDO Marasas – DSc (h.c.)		AH Strydom – PhD (h.c.)
1971	N Diederichs – DCom (h.c.)		NE Wiehahn – LLD (h.c.)		M Jones – PhD (h.c.)
	RS Verster – DPhil (h.c.)	1997	AP Brink – DLitt (h.c.)	2011	D Tutu – DTh (h.c.)
1972	LW Hiemstra – DPhil (h.c.)		B Hurwitz – DPhil (h.c.)		P Fourie – DLitt (h.c.)
	PJ Meyer – DPhil (h.c.)	1998	FC Müller – DMed (h.c.)		OG Winfrey – DEd (h.c.)
1975	PJ Nienaber – DLitt (h.c.)	1999	FM Claerhout – DPhil (h.c.)		RWM Frater – PhD (h.c.)
	De la H de Villiers – DScAgric (h.c.)		JJF Hefer – LLD (h.c.)	2012	A Sawyer – DEd (h.c.)
	GJ Stander – DSc (h.c.)		S Nigam – DSc (h.c.)		RJ Goldstone – LLD (h.c.)
1976	AJA Roux – DSc (h.c.)		WL Nkuhlu – DCom (h.c.)		ER v Heerden – DLitt (h.c.)
1978	SP Botha – DSc (h.c.)		MA Ramphele – DPhil (h.c.)		M Nussbaum – DLitt (h.c.)
	EM van Zinderen Bakker – DSc (h.c.)		HJO van Heerden – LLD (h.c.)		OW Prozesky – MD (h.c.)
	HB Thom – DEd (h.c.)		FJ van der Merwe – PhD (h.c.)		FDJ Brand – LLD (h.c.)
1979	FCL Bosman – DPhil (h.c.)	2000	MH Daling – DCom (h.c.)	2013	ZKG Mda – DLitt (h.c.)
	G Cronjé – DSocSc (h.c.)		TN Liversedge – PhD (h.c.)	2014	ML Blum – PhD (h.c.)
	CJF Human – DCom (h.c.)		I Mahomed – LLD (h.c.)		L Mulvey – DLitt (h.c.)
1980	G Boonzaier – DPhil (h.c.)	2001	BP Gilbertson – DCom (h.c.)	2015	L Brahimi – DPhil (h.c.)
1981	PW Botha – DPhil (h.c.)		NR Mandela – LLD (h.c.)		JM Samuel – DEd (h.c.)
	B Human – DCom (h.c.)		EC Taglauer – DSc (h.c.)		MA Oduyoye – DTh (h.c.)
	SG Shuttleworth – DSc (h.c.)	2002	BH Meyer – PhD (h.c.)		JD Sacks – DEcon (h.c.)
1982	BLS Franklin – DPhil (h.c.)		BAK Rider – LLD (h.c.)	2016	RJ Khoza – DEcon (h.c.)
	GvN Viljoen – DEd (h.c.)		CF Slabber – PhD (h.c.)		TA Manuel – DEcon (h.c.)
1983	L Luyt – DCom (h.c.)	2003	JM Stetar – DEd (h.c.)		M du Preez – PhD (h.c.)
	SF Zaaïman – DPhil (h.c.)		EWA de Corte – DEd (h.c.)		J Samoff – DPhil (h.c.)
1984	HS Steyn – DSc (h.c.)		HA Serebro – DPhil (h.c.)	2017	F Haffajee – PhD (h.c.)
	FR Tomlinson – DScAgric (h.c.)		AG Sykes – DSc (h.c.)		PH Holloway – DSc (h.c.)
	JH vd Berg – DMed (h.c.)	2004	S Badat – DPhil (h.c.)		M Botha – LLD (h.c.)
1985	L Alberts – DSc (h.c.)		R Bringle – DPhil (h.c.)		
	GG Cillie – DPhil (h.c.)		J de Wet – DMus (h.c.)		
	SPD le Roux – DLitt (h.c.)		CF Fauconnier – DSc (h.c.)		

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

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

# MESSAGE FROM THE RECTOR AND VICE-CHANCELLOR

## Dear Student

**T**oday is an unforgettable day and a culmination of your hard work and the time you spent here at the University of the Free State (UFS).

You are not only becoming an alumnus of this great 115-year-old institution, but you are now also part of a community of outstanding individuals who have walked across the stage before you.

This is a significant day for all of us who have been involved in the lives of our graduates. For us at Kopsies – and for your fellow students, friends, and loved ones, this is a time to celebrate and acknowledge your accomplishments, and to bless you with our confidence and hope. May you look back with a sense of pride, knowing that you now possess the required knowledge and skills to build and succeed in your chosen career.

The UFS is, after all, a place that inspires excellence and transforms lives.

Best wishes

**Prof Francis Petersen**  
Rector and Vice-Chancellor  
University of the Free State



## Moithuti ya kgabane

**K**ajeno ke letsatsi le keng la leboleha, le totobatsang sehlohlolo sa boikitlaetso ba hao le nako eo o bileng mona Yunivesithing ya Freistata (UFS) ka yona.

Ha o tlo babatswa feela ka ho ba moithuti wa mehleng wa yunivesithi ena e nang le dilemo tse 115, empa jwale o se o le karolo ya setjhaba se hlwahlwa sa dirutehi tse hlweleng sethala sena pele ho wena.

Lena ke letsatsi la bohlokwa haholo ho rona ba bileng le seabo maphelong a baithuti ba rona. Ho rona kwano Kopsies – le ho baithutimmoho le wena, metswalle, le ba lelapa, ena ke nako ya ho keteka le ho thoholetsa katleho ya hao, le hona ho o apesa tlhohonolofatso le tshepo ya rona. Eka ha o hetla morao, o ka ba motlotlo ka ho tseba hore jwale o fumane tsebo le boiphihlelo bo hlokehang ho ikahela bokamoso lefapheng leo o ikgethetseng ho le latela la mosebetsi.

Etswe, UFS ke moo ho kgothalletswang boipabolo, moo maphelo a batho a fetohang teng.

Katleho le mahlohonolo

**Prof Francis Petersen**  
Mookamedi, ebile e le Motlatsi wa Chancellor  
Yunivesithi ya Freistata

## Mfundi othandekayo

**N**amuhla usuku olungenakulibaleka kanye nomphumela wokusebenza kwakho kanzima nesikhathi osichithe lapha eNyuvesi yaseFreyistata (UFS).

Awugcini nje kuphela ngokuba umfundi owake wafunda kulesi sikhungo esineminyaka eyi-115 ubudala, kodwa manje usuyingxenye yomphakathi wabantu abavelele abake bagibela/bahamba ngaphesheya kwesiteji ngaphambi kwakho.

Lolu usuku olubalulekile kithi sonke esiye sabandakanyeka ezimpilweni zabafundi bethu. Kithi njengama-Kopsies nakubafundi esikanye nabo, abangani, nabathandekayo, lesi yisikhathi sokugubha futhi samukele lokhu esikufezile, futhi sikubusise ngokuzethemba kwethu nangethemba. Kwangathi ungabheka emuva ngokuziqhenya, nokwazi ukuthi manje unalo ulwazi oludingekayo namakhono okwakha nokuphumelela emisebenzini oyikhethile.

I-UFS, ngemuva kwakho konke, yindawo ekhuthaza ubuhle futhi iguqula izimpilo.

Izilokotho ezinhle

**USolwazi Francis Petersen**  
Umphathi weNyuvesi kanye nesekele leShansela  
INyuvesi yaseFreyistata

## VISION

The University of the Free State is 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.

## MOTTO

*IN VERITATE SAPIENTIAE LUX*

(In Truth is the Light of Wisdom)



# OFFICE BEARERS



**CHANCELLOR**  
Dr K Mokhele  
PhD (UCD,USA)



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



**CHAIR OF COUNCIL**  
Mr W Louw  
MEng (CIVIL) (SU)



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



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



**VICE-RECTOR:  
INSTITUTIONAL CHANGE,  
STUDENT AFFAIRS  
AND COMMUNITY  
ENGAGEMENT**  
Prof P LenkaBula  
PhD (UNISA)



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



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



**CAMPUS PRINCIPAL:  
SOUTH CAMPUS**  
Prof D Coetzee  
PhD (UFS)



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



**PRESIDENT OF  
CONVOCATION**  
Prof JU Grobbelaar  
DSc (UFS)





## DEANS



**DEAN:  
ECONOMIC AND  
MANAGEMENT SCIENCES**

Prof HJ Kroukamp  
DPhil (UPE)



**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)



**ACTING DEAN:  
THEOLOGY AND RELIGION**

Prof RS Letšosa  
PhD (PU/CHE)





## QWAQWA SENIOR LEADERSHIP



### CAMPUS PRINCIPAL

Dr M Mandew  
PhD (UN)



### CAMPUS VICE-PRINCIPAL: SUPPORT SERVICES

Mr TI Manchu  
MA (UFS)



### ACTING CAMPUS VICE- PRINCIPAL: ACADEMIC AND RESEARCH

Dr J McDonald  
PhD (London)



### ASSISTANT DEAN: ECONOMIC AND MANAGEMENT SCIENCES

Mr C Mudzingiri  
MSc (UZ)



### ASSISTANT DEAN: EDUCATION

Dr CT Tsoetsi  
PhD (UFS)



### ACTING ASSISTANT DEAN: THE HUMANITIES

Mr G Mgaiza  
MSc (UZ)



### ASSISTANT DEAN: NATURAL AND AGRICULTURAL SCIENCES

Prof AOT Ashafa  
PhD (UFH)



## GUEST SPEAKER

### DR MD SAUROMBE

Senior Lecturer: UFS

Youngest Female PhD Graduate in Africa (2017)



**D**r Musawenkosi Donia Saurombe is an academic making waves in the academic sphere. She obtained a Doctor of Philosophy in Industrial Psychology in 2017, setting an astounding academic record by becoming the youngest female PhD graduate in Africa at the age of 23. Dr Saurombe worked as a Postdoctoral Research Fellow and Lecturer at

the North-West University in Mafikeng from April 2017 and was appointed as a Senior Lecturer at the University of the Free State in Bloemfontein in April 2019. Dr Saurombe lectures courses in Human Resource Management and Industrial Psychology, and supervises postgraduate research and is an eminent civic innovator.

In 2017, Dr Saurombe received the award for Best Doctoral Student in South Africa for 2016 from the South African Board for People's Practices (SABPP), and the Emerging Psychologist of the Year award from the Society for Industrial and Organisational Psychology of South Africa

(SIOPSA). She was featured in the Africa Youth Awards' 2018 List of Top 100 Most Influential Young Africans, and recently received the Institute of People Management (IPM) CEO's Special Award as the 2018 Young Leader of the Year for various outstanding contributions in her field. She was also acknowledged by *The Young Independents* (TYI) as one of the SADC Top 100 of 2018 at the 100 Awards in December 2018. Although Dr Saurombe is still at the beginning of her academic career, she has already shown great promise as a future researcher and academic of note. The future looks bright for the young emerging powerhouse, to say the least.

#### 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.



DEAN: |

**PROF LC JITA**

ASSISTANT DEAN |

**DR CT TSOTETSI**

## **CERTIFICATES**

**POSTGRADUATE CERTIFICATE  
IN EDUCATION (FURTHER  
EDUCATION AND TRAINING  
PHASE)**

HLATSHWAYO, Nosipho  
Innocentia  
VILAKAZI, Thembeke\*





## DEAN |

**PROF H HUDSON**

## ACTING ASSISTANT DEAN |

**MR G MAGAIZA**

## BACHELOR'S DEGREES

### BACHELOR OF ARTS

BOLANKWE, Thato Jacob  
BUTELEZI, Elect Ntuthuko  
CHILIZA, Nonkululeko Precious  
DAKI, Nokuthula Merrina  
DANISA, Velile Silvia  
DLADLA, Simthembele  
DLAMINI, Dumisane Patrick  
DLAMINI, Musawenkosi Themba  
DLAMINI, Mzamomuhle Maviyo  
DLAMINI, Nonhlahla Fortunate  
DLAMINI, Sikholiwe Sinikiwe  
DLAMINI, Xoli Bongekile  
DONTSA, Pholla Samkezi\*  
DUBE, Adelaide Nokwanda  
GUMEDE, Thokozile Gladys  
HADEBE, S'Negugu Nomahlubi  
HLATSHWAYO, Nonthuthuko  
Snegugu  
HLATSHWAYO, Siphesihle  
Nicholas  
HLATSHWAYO, Sithembiso  
Sydwell  
HLONGWANE, Sphehile  
KAPARI, Mpho Sylvia  
KHETHWA, Miracle Mongezi  
KHIBA, Teboho Aubrey  
KHOZA, Amanda Precious  
KHUMALO, Anele  
KHUMALO, Lindokuhle  
Sphamandla

KHUMALO, Noxolo Promise  
KHUMALO, Xoliswa  
KHUMALO, Yandisa  
Zamantungwa  
KHUMALO, Zinhle  
KHUZWAYO, Bongiwe Maria  
KOLOKO, Michael Moeketsi  
KUBEKA, Khulekani Praise-God  
KUBHEKA, Bonyinkosi Theodore  
KUBHEKA, Sinegugu  
KUBHEKA, Sinqobile  
KUBHEKA, Thandeka Peaceful  
KUMALO, Thabang Abram  
KUNENE, Manqoba  
LEKHETHO, Keabetswe Penelope  
LEMPHANE, Motsilisi Augustina  
LEOTLELA, Lebohang Bargio  
LINDA, Phindile Gloria  
LIPHOLLO, Thato Samuel  
LOKO, Sizakele Wendy  
LUKHELE, Sindisiwe  
LUVUNO, Qedile Angel  
LUVUNO, Thokozani Gift  
MABASO, Goodlucky Khetha  
MABASO, Mbali Noncedo  
MABASO, Mthokozisi Balibongwe  
MABASO, Thobile Nokubongwa  
MACU, Sibonelo Zakhele  
MADELA, Xolile Zamilé  
MADINANE, Sencamile Vicky  
MADONSELA, Zamokuhle Doris  
MAHLABA, Lebohang  
MAIMELA, Thembisile Sharon  
MAKANHIWA, Theresa  
MANQELE, Zesande  
Samukelisiwe  
MARUMO, Pule Desmond  
MASITENG, Thato Herman  
MASOEU, Thandi Portia  
MASOMBUKA, Mphilwenhle  
Zandile  
MASUKU, Nonhle

MASUKU, Nontokozo Faith  
Nompumelelo  
MATSOSO, Pulane Patricia  
MATUKA, Moratoe Karabelo Pearl  
MAVIMBELA, Ayanda  
MAVUNDLA, Smiso Emmanuel  
MAZIBUKO, Gcinani Nowel  
MAZIBUKO, Landiwe Noxolo  
MAZIBUKO, Londeka Sindiswa  
MAZIBUKO, Mthobisi Ayanda  
MAZIBUKO, Nontokozo Fortunate  
MAZIBUKO, Polaki Surprise  
MAZIBUKO, Sandile  
MBATHA, Bathabile Patricia  
MBATHA, Noxolo Peaceful  
MBELE, Thembekile  
MCHUNU, Prince Ntuthuko  
MDAKANE, Siyabonga Sydwell  
MDINEKA, Siphokazi Precious  
MDLADLA, Zamalala  
MDLETSHI, Nhlosenhle Phindile  
Loraine  
MDLULI, Mandisa  
MGABI, Nompumelelo  
MHLANGA, Thembelihle Nozipho  
MHLONGO, Duduzile Ritter  
MHLONGO, Sinemfundo Pamela  
MIYA, Sibongile Julia  
MIYA, Sinqobile Purity  
MKHIZE, Lungelo Lucia  
MKHIZE, Nhlahonhle Suzanne  
MKHIZE, Thembeke Roseane  
MKHONZA, Sifiso  
MKHWANAZI, Mbali Patience  
MNCUBE, Nontobeko Thandeka  
MNGOMO, Mxolisi Samkelo  
MNGUNI, Bongani Amos  
MNGUNI, Lindiwe Primrose  
MOFOKENG, Dipuo Grace  
MOFOKENG, Makwidi Topsy  
MOFOKENG, Mantwa Miriam



MOHALE, Makgaula Julia  
 MOHLAHATSA, Puseletso Jeanett  
 MOHLAPENG, Ntokozo Godgift  
 MOKHEHLE, Ntai David  
 MOKHOTHU, Mahlapane Regina  
 MOKOENA, Rosina Nthabiseng  
 MOKOTANE, Tebello Joseph  
 MOKOTEDI, Thabiso David  
 MOLATSELI, Pule Veli  
 MOLEFE, Molelekeng Happy  
 MOLLO, Pretty Samukelisiwe  
 MOLOI, Nonvula Jeannet  
 MOLOI, Puleng Anitor  
 MOLOI, Thato Karabo  
 MOLUPE, Refiloe Precious  
 MOOPI, Peter  
 MORGAN, Nobuhle Prettygirl  
 MOSEA, Ntebaleng Reanetse  
 MOSIKIDI, Isael Maitse  
 MOTAUNG, Lebohang Bevalin  
 MOTAUNG, Palesa Joyce  
 MOTHAPO, Nteboheng Patience  
 MOTHOALO, Lamlile Onica  
 MOTLOUNG, Itumeleng  
 Brightness  
 MOTLOUNG, Retshedisitswe  
 MPUNGOSE, Mpilenhle  
 MSELEKU, Sindiswa Phumla  
 MSIBI, Mandisa Ignatia  
 MSIYA, Tshepo Linda\*  
 MSOMI, Mzamo Mayibongwe  
 MTHEMBU, Thobile Phindile  
 MTHETHWA, Phumlani Gerald  
 MVELASE, Snenhlanhla Sindisiwe  
 MYEZA, Nokuphiwa Sinokuhle  
 NAMWERA, Whyson  
 NDABA, Sanele Madoda  
 NDUMO, Thandeka  
 Nomathamsanqa

NGCOBO, Sindiswa Lungelwa  
 NGCOBO, Siphesihle  
 NGIDI, Sinothando Boitumelo  
 Olwethu  
 NGLONGWANE, Jessie Bernice  
 NGUBONE, Lindokuhle Siyanda  
 NGWENYA, Zanele Nomusa  
 Precious  
 NHLAPO, Andile Jannice  
 NHLAPO, Pinky Nomzamo  
 NJOKO, Zamansele Pearl  
 NKABINDE, Mbali Penelope  
 NKABINDE, Samukelo  
 NKALA, Ntombifuthi Rebecca  
 NKOSI, Lindokuhle Faizel  
 NKOSI, Sthembile Precious  
 NKUTHA, Nonhlanhla Lucy  
 NQUBUKA, Nkululeko Freedom  
 NTHOLENG, Mahadi Promise  
 NTOBELA, Maditaba Precious  
 NTSANE, Thato Nelson  
 NTSHANGASE, Mendy  
 NTSHANGASE, Philisiwe Nomusa  
 NTUMBA, Nozipho  
 NXUMALO, Sinethemba Anele  
 Bridget  
 NXUMALO, Thandazile Maminky  
 NYAWO, Njabulo Sihle  
 NYEMBE, Jabulile Fezile Sihle  
 NYEMBE, Thembeke Zinhle  
 PHUNGULA, Nobuhle  
 PULE, Matibu Ellen  
 RADEBE, Kgotso Richard  
 RADEBE, Palesa Anastacia  
 RADEBE, Silindile Nelisiwe  
 RASUNYANE, Mapulane Alinah  
 SEHAOLE, Dikeledi Angelina  
 SEKHOSANA, Mpho Patronela  
 SHABALALA, Nokwazi

SHABALALA, Sinenhlanhla  
 SHABANGU, Nokulunga Pretty  
 SHEZI, Ntombizodumo  
 SHEZI, Zandile Flowers Zet  
 SIBANYONI, Sinethemba  
 Bongeka  
 SIBEKO, Simingaye  
 SIBISI, Lindelwa  
 SIKHAKHANE, Nomfundo Praise-  
 God  
 SIKHOSANA, Siyabonga Samkelo  
 SIMELANE, Zanele Trudy  
 SINA, Mathabo Lydia  
 SISHI, Londiwe Thandazile  
 SITHOLE, Moleboheng Nelisiwe  
 SITHOLE, Nonhlanhla Fortunate  
 SITHOLE, Thubelihle Zamokuhle  
 SITHOLE, Xolane Foreman  
 SONDEZI, Sinethemba Nozipho  
 SOOTHO, Khantse Doreen  
 THABEDE, Nobuhle Silindokuhle  
 THABEDE, Thobeka Nomfundo  
 TSHABALALA, Moipone Gladness  
 TSHABALALA, Puseletso Mavis  
 TSHABALALA, Zandile Nelly  
 TSHEBESEBE, Mashemane  
 Mitchell  
 TSOTETSI, Goodness Iris  
 TWALA, Simphiwe Jacob  
 XULU, Ayanda Gugulethu  
 XULU, Lethukuthula Nqubeko  
 ZIKODE, Mfundo Simo  
 ZONDI, Ntokozo  
 ZONDO, Nompilo  
 ZONDO, Philisiwe Precious  
 ZULU, Tshepo  
 ZULU, Zama  
 ZUMA, Wandile  
 ZUNGU, Sphehile Njabulo  
 ZWANE, Hawukeliwe





ZWANE, Mduduzi Mvikeleni  
ZWANE, Mvula Michael  
ZWANE, Siziwe Minenhle

## **BACHELOR HONOURS DEGREES**

### **BACHELOR OF ARTS HONOURS WITH SPECIALISATION IN ENGLISH**

SHANDU, Fezile Nondumiso  
Zamathiya

### **BACHELOR OF ARTS HONOURS WITH SPECIALISATION IN GEOGRAPHY**

DLAMINI, Kholeka Bongile  
TSHABALALA, Nkosinathi  
Innocent

### **BACHELOR OF ARTS HONOURS WITH SPECIALISATION IN SESOTHO**

DHLAMINI, Jabulane Simon  
MOTLOUNG, Mathapelo

## **MASTER'S DEGREES**

### **MASTER OF ARTS WITH SPECIALISATION IN ENGLISH**

MOTAHANE, Nonki Sylvia

**Dissertation Title:** *NEGOTIATING  
CONTEMPORARY  
TRANSNATIONAL IDENTITIES:  
A STUDY OF FOUR POST-2000  
AFRICAN NOVELS*

**Supervisor:** Dr O Nyambi  
**Co-Supervisor:** Dr R Makombe  
**MASTER OF ARTS WITH  
SPECIALISATION IN HUMAN  
GEOGRAPHY**

**MNGOMEZULU, Mohlophahi**  
Joshua

**Dissertation Title:**  
*ENVIRONMENTAL IMPACT  
OF CATTLE FARMING ON  
COMMUNAL GRAZING LAND:  
THE CASE OF BOTJHABELA  
SMALLHOLDER FARMS,  
QWAQWA*

**Supervisor:** Dr TW Okello



DEAN |

**PROF PD VERMEULEN**

ASSISTANT DEAN |

**PROF AOT ASHAF**

## **BACHELOR'S DEGREES**

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

MNGUNI, Nompilo Siyethaba  
Vuyokazi

MOLEFE, Nteboheng Patience  
MOTSOENENG, Boitumelo

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

KOQO, Katiso Patrick

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

DUBE, Sinethemba

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

MOLEFE, Taelo Bokang

### **BACHELOR OF SCIENCE MAJORING IN BOTANY AND LIFE SCIENCE**

MANATHA, Ntombifuthi  
MOKOENA, Malefu  
MSIBI, Lungelo

### **BACHELOR OF SCIENCE MAJORING IN CHEMISTRY AND BOTANY**

HADEBE, Nonhlanhla  
KONILE, Mamello  
LEKENA, Nkhahlang  
LEOTLELA, Richard Maroyi  
MAHLANGU, Maria Ntebuseng  
MBELE, Malejaha Victoria  
MOKOENA, Mpho Ronald  
MOLOI, Lerato  
MOTSOENENG, Leah Mpho  
NDLOVU, Sbhongiseni  
NTINI, Zola  
NXUMALO, Nomhle Priscilla  
NYAWO, Sipho Alfred  
SENOKOANE, Matheko  
Constitution  
TSHABALALA, Hlengiwe  
ZULU, Dominic Siyanda

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

GAWA, Sokhana Yoliswa  
KHUMALO, Londiwe Sandile  
KHUZWAYO, Benelile Gladys  
LEKESI, Lehlohonolo Petrus  
MADONSELA, Richard Xolani  
MCHUNU, Ntobeko Frederick  
MIYA, Lindobuhle Alfred

MOFOKENG, Foromane Edwin  
MOFOKENG, Refilwe Gladness  
MOKOENA, Dieketseng Aletta  
MOKOENA, Lebohang Mirror  
MOKOENA, Rasekepe Sam  
MTSHALI, Nokukhanya  
NDHLOVU, Dimakatso Julia  
NHLAPO, Jabulile Innocentia  
RAMOLAHLOANE, Hope Thabo  
SHIBA, Sindiswa Suzan  
TSELE, Tumelo Nathnail  
TSOTETSI, Nkululeko Kamohelo

### **BACHELOR OF SCIENCE MAJORING IN CHEMISTRY AND ZOOLOGY**

MGAGA, Sizakele Gladness  
MOTSWENYANE, Bongiwe  
TSOTETSI, Palesa Andile  
Andrena

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

KHUMALO, Ayanda Mhlengi  
MAPURU, Morena John  
MNCUBE, Zandile  
MOKOENA, Naledi Calvin  
MOTAUNG, Motshewa Jennet  
MOTHIBI, Karabelo Paulina  
NDLOVU, Xoliswa Bridget  
SIKHOSANA, Kholeka Thembeke  
XHAKAZA, Ndimiso Siyabonga

### **BACHELOR OF SCIENCE MAJORING IN LIFE SCIENCE**

MBONGWA, Senelisiwe Thandeka  
Fairhope





MZIZI, Sindiswa  
VAN WYK, Maria

## **BACHELOR OF SCIENCE MAJORING IN MATHEMATICS AND CHEMISTRY**

MAXEGWANA, Tshepo Edmont

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

MPHUTHI, Teboho Rubele

## **BACHELOR OF SCIENCE MAJORING IN ZOOLOGY AND LIFE SCIENCE**

BUTHELEZI, Lungile  
MABULE, Mahadi Francisca  
MASHILOANE, Elliot  
MOSIKIDI, Toka\*  
RADEBE, Nonhlahla

## **BACHELOR HONOURS DEGREES**

### **BACHELOR OF SCIENCE HONOURS MAJORING IN BOTANY**

MOSEA, Dipuo  
SOKHELA, Lethiwe Nonkululeko  
Londeka

### **BACHELOR OF SCIENCE HONOURS MAJORING IN GEOGRAPHY**

GULE, Londiwe Simthembile  
Nokwanda

### **BACHELOR OF SCIENCE HONOURS MAJORING IN PHYSICS**

MUTHEE, Dorah Kawira  
TSOTETSI, Dieketseng Glara

### **BACHELOR OF SCIENCE HONOURS MAJORING IN POLYMER SCIENCE**

HLATYWAYO, Nomagugu Grace  
KHAMBULE, Samkelisiwe Portia  
MAGUBANE, Ntombiyenkosi  
MOKOENA, Tiisetso Ephraim  
SEBOTSA, Mojabeng Maria  
SEROMO, Lebohang  
TSOTETSI, Lebohang Adam

### **BACHELOR OF SCIENCE HONOURS MAJORING IN ZOOLOGY**

DLAMINI, Nomasonto Portia  
MOKOENA, Matshediso Anastacia\*  
MORURI, Palesa  
STANDER, Adriaan Hendrik\*

## **MASTER'S DEGREES**

### **MASTER OF SCIENCE MAJORING IN BOTANY**

LEHASA, Selloane Gloria

**Dissertation Title:** *BIOLOGICAL  
ACTIVITY, ISOLATION AND  
CHARACTERISATION OF ACTIVE  
COMPOUNDS FROM PLANTS*

### *USED AGAINST LYMPHATIC FILARIASIS*

**Supervisor:** Dr LV Komoreng  
**Co-Supervisor:** Prof MMO  
Thekiso

**MDLETSHE**, Nhlakanipho  
Wonderboy

**Dissertation Title:** *COMPARISON  
OF PHARMACOLOGICAL  
ACTIVITY OF RHOICISSUS  
TRIDENTATA AND RHOICISSUS  
TOMENTOSA FOR THE  
TREATMENT OF ELEPHANTIASIS  
IN SOUTH AFRICA*

**Supervisor:** Dr LV Komoreng  
**Co-Supervisor:** Prof MMO  
Thekiso

**MOLOI**, Sellwane Jeanette

**Dissertation Title:** *A  
COMPARATIVE PHYSIOLOGICAL,  
PROTEOMIC AND BIOCHEMICAL  
ANALYSIS OF SORGHUM  
SEEDLINGS UNDER SALT  
STRESS*

**Supervisor:** Dr R Ngara  
**Co-Supervisor:** Dr NG Shargie

**NGCALA**, Mamosa Gloria\*

**Dissertation Title:** *MOLECULAR  
RESPONSES OF SORGHUM*



*CELL SUSPENSION CULTURES  
TO HIGH TEMPERATURE  
STRESS*

**Supervisor:** Dr R Ngara  
**MASTER OF SCIENCE  
MAJORING IN ENTOMOLOGY**

**MOFOKENG**, Simon Lehlohonolo

**Dissertation Title:** *DRAGONFLY  
BIOTIC INDEX ASSESSMENT OF  
THE AFROMONTANE RIPARIAN  
ZONES WITHIN GOLDEN GATE  
HIGHLANDS NATIONAL PARK,  
SOUTH AFRICA*

**Supervisor:** Dr E Bredenhand

**MASTER OF SCIENCE  
MAJORING IN  
ENVIRONMENTAL GEOGRAPHY**

**GCAYI**, Siphokazi Ruth

**Dissertation Title:** *PREDICTING  
SOYBEAN GRAIN YIELD  
(GLYCINE MAX (L.) MERR)  
USING REMOTE SENSING*

**Supervisor:** Dr SA Adelabu  
**Co-Supervisor:** Dr G Chirima

**SEKHELE**, Ntebohiseng Mpho

**Dissertation Title:** *ASSESSING  
THE EFFECTS OF GRAZING  
ON VEGETATION COVER  
AND ASSOCIATED SOCIO-  
ECONOMIC LIVELIHOODS*

*IN THE CLARENS NATURE  
RESERVE IN THE FREE STATE,  
SOUTH AFRICA*

**Supervisor:** Dr TW Okello  
**Co-Supervisor:** Dr SA Adelabu

**MASTER OF SCIENCE  
MAJORING IN GEOGRAPHY**

**MALAKA**, Sewela Francinah

**Dissertation Title:** *ESTIMATION  
OF GREENHOUSE GAS  
EMISSIONS FROM  
AGRICULTURE IN THE  
EASTERN FREE STATE, SOUTH  
AFRICA*

**Supervisor:** Prof G Mukwada  
**Co-Supervisor:** Dr ME Moeletsi

**MASTER OF SCIENCE  
MAJORING IN POLYMER  
SCIENCE**

**MUKWADA**, Lesley Tsitsi

**Dissertation Title:**  
*PREPARATION AND  
CHARACTERISATION OF  
BIODEGRADABLE POLYMER  
NANOCOMPOSITES*

**Supervisor:** Dr J Mofokeng

**MASTER OF SCIENCE  
MAJORING IN ZOOLOGY**

**NYOKA**, Ngitheni Winnie-Kate

**Dissertation Title:** *HOW  
DOES BIOCHAR AFFECT THE  
TOXICITY OF IMIDACLOPRID  
ON SELECTED LIFE  
CYCLE PARAMETERS AND  
BIOMARKER RESPONSES  
OF TWO TERRESTRIAL  
OLIGOCHAETES?*

**Supervisor:** Dr P Otomo  
**Co-Supervisor:** Dr M Leeto

**SEETSI**, Anna

**Dissertation Title:**  
*HAEMOPARASITE INFECTIONS  
AND RELATIONSHIP  
WITH ADAPTIVE IMMUNE  
RESPONSES IN AFROMONTANE  
LIZARD OF THE EASTERN FREE  
STATE PROVINCE, SOUTH  
AFRICA*

**Supervisor:** Dr M Leeto  
**Co-Supervisor:** Prof MMO  
Thekiso





## DOCTORAL DEGREES

### DOCTOR OF PHILOSOPHY MAJORING IN BOTANY

**GOCHE**, Tatenda

Tatenda Goche was born on 26 November 1987 in Mutare, Zimbabwe. He received his secondary education in Chitungwiza, Zimbabwe, where he matriculated at Zengeza 1 High School in 2007. He obtained an Honours degree in Agriculture and a Master of Science degree in Crop Science specialising in Plant Breeding in 2015 at the University of Zimbabwe. He worked as an intern at the Centre for Maize and Wheat Improvement from 2010 to 2011, and at the Tobacco Research Board in Zimbabwe from 2013 to 2015. Tatenda served as the Deputy Chairperson of the International Student Council at the University of the Free State Qwaqwa Campus from 2016 to 2017.

With his thesis titled: **CHARACTERISATION OF THE PHYSIOLOGICAL, BIOCHEMICAL AND MOLECULAR RESPONSES OF SORGHUM TO DROUGHT STRESS**, the candidate makes a contribution to the adaptive responses of plants to water deficits using sorghum varieties. The drought-tolerant variety effectively protects its cellular machinery by maintaining relative water content and total chlorophyll content at optimal levels, which ultimately sustains plant growth and development. In addition, this superior variety rapidly switches on drought-inducible genes, proteins, and metabolites with key roles in protective, signalling, and gene-regulatory functions. Proline and glycine betaine largely accumulate in the drought-tolerant variety during the stress period and function in stabilising proteins and in osmotic adjustment. Root proteomic analysis also revealed the up-regulation of redox, transcription, translation, and signal transduction – related proteins and the down-regulation of proteases compared to the susceptible one. The study further presents putative sorghum-marker genes with potential application in screening germplasm for drought/heat tolerance.

**Promoter:** Dr R Ngara

**Co-Promoter:** Dr S Chivasa

### DOCTOR OF PHILOSOPHY MAJORING IN ENVIRONMENTAL GEOGRAPHY

**MBIRIRI**, Mavis

Mavis Mbiriri was born on 17 June 1981 in the Makoni district of Zimbabwe. She received her secondary education and matriculated at Marlborough High School, Harare in 1999. She obtained a Diploma in Education from the University of Zimbabwe (2003), a Bachelor of Science Honours degree in Education (Geography) in 2008, and a Master of Science degree in Natural Resources Management and Environmental Sustainability from Bindura University of Science Education (2012). In 2013, she obtained a Certificate in Occupational Safety, Health and Environmental Management from the National Social Security Authority, Zimbabwe.

With her thesis: **IMPACTS OF SURFACE AIR TEMPERATURE VARIABILITY ON AGRICULTURAL DROUGHTS IN SOUTHERN AFRICA: THE CASE OF THE FREE STATE PROVINCE OF SOUTH AFRICA**, the candidate makes a



contribution to the subject of climate change and climate variability, which is globally relevant. With this contribution, she assesses the role of temperature variability in the evolution of agricultural drought in the Free State, thus informing policy development within the domain of climate-change adaptation. The results of this research deepen our understanding of agricultural droughts in the province. The study concludes that the Free State has experienced a significant increase in both maximum and minimum temperatures between 1960 and 2013. However, the analysis of the Standardised Precipitation - Evapotranspiration Index indicates that temperature increase does not have any significant impact on agricultural drought. The study recommends the adoption of proactive approaches to water resources and biodiversity management, environmental education and awareness among farmers, as well as further research on the role of other environmental factors on agricultural droughts in the region.

**Promoter:** Prof G Mukwada

**Co-Promoter:** Prof D Manatsa

## DOCTOR OF PHILOSOPHY MAJORING IN POLYMER SCIENCE

**GUMEDE**, Thandi Patricia

Thandi Patricia Gumede was born in Harrismith on 6 September 1991. She received her secondary education in Harrismith, where she matriculated at New Horizon College in 2008. She obtained her BSc degree in Chemistry/Physics and Biology in 2012, BSc Honours degree in Polymer Science in 2013, and MSc degree in Polymer Science in 2015 at the University of the Free State. She started her career as a laboratory assistant at the University of the Free State (Qwaqwa Campus) in 2011. In 2016, she was appointed as an Academic Facilitator in the department, and currently she is a Lecturer at the Central University of Technology.

With her thesis, ***DEVELOPMENT OF BIONANOCOMPOSITES BASED ON PCL/PBS DOUBLE CRYSTALLINE BLENDS AND CARBON NANOTUBES***, the candidate makes a contribution to the solving of environmental problems caused by the slow degradation of petro-based polymers. In her research, she worked on biodegradable polymer blends and nanocomposites. Since biodegradable polymers generally have inferior physical properties in terms of strength and dimensional stability, and since most of them are expensive and difficult to process, she is attempting to solve these problems through blending and inclusion of nanoparticles. In her study, she blended PCL and PBS biodegradable polymers, and introduced multi-walled carbon nanotubes (MWCNTs) by mixing a MWCNTs/polycarbonate masterbatch with PCL, PBS, and the PCL/PBS blends, and investigated the crystallisation behaviour and kinetics of these systems. Her results will assist in controlling the crystallinity of such systems, since crystallinity is directly related to the strength and toughness of polymer-related systems.

**Promoter:** Prof AS Luyt

**Co-Promoters:** Prof AJ Müller and Dr EHG Langner

## DOCTOR OF PHILOSOPHY WITH SPECIALISATION IN PHYSICS

**MALEVU**, Thembinkosi Donald

Thembinkosi Malevu was born in Johannesburg on 22 October 1989. He received his secondary education in Ezizuzele Primary School (Newcastle), where he matriculated at Emfundweni High School in 2007. He obtained the degrees Chemistry, Physics, and Biology in 2011, Physics Hons in 2012, master's in Nanoscience in 2014, and PhD in Physics in 2018, all from the University of the Free State.



He started his career as a laboratory assistant in the Department of Physics at the UFS Qwaqwa Campus in 2010. In 2015, he was appointed as Assistant Lecturer at the Maluti TVET in Qwaqwa, and at present he is Lecturer in the field of Applied Physics at the University of KwaZulu-Natal.

With his thesis, ***FABRICATION OF LOW-COST PEROVSKITE-BASED SOLAR CELLS THAT USE RECYCLED LEAD AND LEAD COMPOUNDS FROM DEPLETED SEALED-LEAD ACID (SLA) BATTERIES***, the candidate makes a contribution to the existing knowledge of the newly emerged 4th generation solar cells known as perovskites. He presented a novel way of synthesising rare 6R polytyped lead iodide from depleted sealed lead-acid batteries. The structure, particle morphology, optical and photoluminescence properties were investigated to find their contribution to the performance of perovskite solar-cell devices. The positive results of this investigation serve as an indication of the value this type of intervention holds for the attempt to find a solution to the development of perovskite solar cells. The candidate has presented his work at both national and international conferences, where the South African Institute of Physics awarded him both as best presenter and as promising young Physics researcher.

**Promoter:** Dr KG Tshabalala

**Co-Promoter:** Dr RO Ocaya



# 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.





## CONGRATULATIONS FROM THE ALUMNI OFFICE

Warmest congratulations on your graduation and best wishes for your next adventure! We are very proud of you. We hope that you will stay in touch with your Alma Mater and share your future achievements with other Kovsie alumni.

### CELEBRATE EXCELLENCE

Alumni are a real measure of a university's brand and we strive to keep you informed of the crop of exceptional young leaders and pioneers emerging from Kovies. We do this through our online platforms, social media, publications like BULT and events such as the Chancellor's Distinguished Alumni Awards.

### GROW THE COMMUNITY

We exist not only to keep you, our most valued brand ambassadors, connected to your alma mater but to help you stay connected to each other. We encourage engagement and networking opportunities through events, informal visits and guest lectures. You can connect with alumni globally and reconnect with former class mates through the Alumni Office.

### ONLY A KOVSIE KNOWS THE FEELING

The extraordinary achievements of Kovies, both current and past, have placed the University of the Free State on the world stage.

Read about some of those achievements at: [www.ufs.ac.za/alumni/noteworthy-alumni](http://www.ufs.ac.za/alumni/noteworthy-alumni). These alumni have gone on to inspire the next generation of Kovies and their communities.

### GIVE BACK

The UFS values value your financial contributions, your time and your skills. Strengthen your bond with your Alma Mater by becoming involved in projects, events and initiatives aimed at creating a fulfilling student and alumni experience for fellow Kovies.

Give to a variety of impactful projects via

- the Kovie ABSA affinity credit card
- a MySchool card
- Mentorship opportunities
- Organisational involvement
- Our donations web page [www.ufs.ac.za/giving](http://www.ufs.ac.za/giving)

### UPDATE YOUR DETAILS

- email: [alumni@ufs.ac.za](mailto:alumni@ufs.ac.za) – Include your date of birth, cell phone number and full names or
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