



# GRADUATION CEREMONY

QWAQWA CAMPUS

FRIDAY 14 APRIL 2023

14:00

VISION130  
*Renew and Reimagine  
towards 2034*

Faculties of Economic and Management Sciences, and Natural and Agricultural Sciences

Bachelor's degrees, honours degrees, master's degrees, and doctoral degrees



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



# PROGRAMME

14 APRIL 2023 | 14:00  
QWAQWA 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 <https://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 119 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  
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**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 2023

## Honorary Awards | Honorary Doctorates

1950	GLP Moerdyk – DLitt (h.c.)	1987	JA Stegmann – DCom (h.c.)		MK Seely – DSc (h.c.)
1951	NC Havenga – LLD (h.c.)		WA Joubert – LLD (h.c.)		C Seerveld – DPhil (h.c.)
1952	Thos Blok – DEd (h.c.)		B Kok – DPhil (h.c.)		F van Z Slabbert – DPhil (h.c.)
	SHS Rubidge – DSc (h.c.)		WP Venter – DCom (h.c.)		JC Steyn – DLitt (h.c.)
1955	CR Swart – LLD (h.c.)	1988	JJN Cloete – DAdmin (h.c.)		PA Verhoef – DTh (h.c.)
	CA v Niekerk – LLD (h.c.)		FC Fensham – DLitt (h.c.)		L van den Heever – LLD (h.c.)
1958	CPB Brink – LLD (h.c.)		JW vd Riet – DPhil (h.c.)		HA Wessels – LLD (h.c.)
	CF Visser – DEd (h.c.)	1989	BJ Meyer – DSc (h.c.)	2005	A du P Heyns – DMed (h.c.)
1959	DB Bosman – DLitt (h.c.)		N van Uden – PhD (h.c.)		JJF Durand – DPhil (h.c.)
	SP le Roux – DScAgric (h.c.)	1990	MG Corbett – LLD (h.c.)		JA Groenewald – DSc (h.c.)
	DF Malherbe – DLitt (h.c.)		JS Rabie – DLitt (h.c.)		WH Neuser – DTh (h.c.)
	GH v Rooyen – MA (h.c.)	1991	SS Brand – DCom (h.c.)		M Ramos – PhD (h.c.)
1960	SPE Boshoff – DLitt (h.c.)		JWL de Villiers – DSc (h.c.)		SJ Terreblanche – DCom (h.c.)
1961	T Boydell – DPhil (h.c.)		GT Fagan – DArch (h.c.)	2006	T Moss – PhD (h.c.)
1962	ES Botes – DEd (h.c.)		JH Hofmeyer – PhD (h.c.)		PV Cox – PhD (h.c.)
	PE Rousseau – DSc (h.c.)		E v Heerden – DLitt (h.c.)	2007	BJ (Bannie) Britz – DArch (h.c.)
1963	EH Louw – LLD (h.c.)	1992	JP Louw – DLitt (h.c.)		KPD Maphalla – PhD (h.c.)
	EN Roberts – DSc (h.c.)		H Olivier – DSc (h.c.)	2008	D Ferreira – DSc (h.c.)
	JGF (Kaalkop) vd Merwe – DCom (h.c.)	1993	JD Anderson – DMed (h.c.)	2009	JC Look – PhD (h.c.)
	HF Verwoerd – DLitt et Phil (h.c.)		RR Arndt – DSc (h.c.)		LTC Harms – LLD (h.c.)
1966	PSZ Coetzee – DPhilTh (h.c.)		SJ Naudé – LLD (h.c.)	2010	P Gordhan – PhD (h.c.)
	PJ du Toit – DSc (h.c.)	1994	JJ Human – DPhil (h.c.)		BBS Ngubane – PhD (h.c.)
	MS Louw – DCom (h.c.)		JA Myburgh – DMed (h.c.)		AH Strydom – PhD (h.c.)
1967	SM Naudé – DSc (h.c.)		JP vd Walt – DSc (h.c.)	2011	M Jones – PhD (h.c.)
	LC Steyn – LLD (h.c.)	1995	WA Landman – DEd (h.c.)		D Tutu – DTh (h.c.)
	BJ Vorster – LLD (h.c.)		WL Mouton – DPhil (h.c.)		P Fourie – DLitt (h.c.)
1968	SJ Naudé – DCom (h.c.)	1996	WDO Marasas – DSc (h.c.)		OG Winfrey – DEd (h.c.)
1969	CW (Nellie) Swart – DPhil (h.c.)		NE Wiehahn – LLD (h.c.)		RWM Frater – PhD (h.c.)
	AJJ Wessels – DCom (h.c.)	1997	AP Brink – DLitt (h.c.)		A Sawyer – DEd (h.c.)
1970	GS Nienaber – DLitt (h.c.)		B Hurwitz – DPhil (h.c.)	2012	RJ Goldstone – LLD (h.c.)
	HO Mönnig – DSc (h.c.)	1998	FC Müller – DMed (h.c.)		ER v Heerden – DLitt (h.c.)
1971	N Diederichs – DCom (h.c.)		FM Claerhout – DPhil (h.c.)		M Nussbaum – DLitt (h.c.)
	RS Verster – DPhil (h.c.)	1999	JJF Hefer – LLD (h.c.)		OW Prozesky – MD (h.c.)
1972	LW Hiemstra – DPhil (h.c.)		S Nigam – DSc (h.c.)		FDJ Brand – LLD (h.c.)
	PJ Meyer – DPhil (h.c.)		WL Nkuhlu – DCom (h.c.)	2013	ZKG Mda – DLitt (h.c.)
1975	PJ Nienaber – DLitt (h.c.)		MA Ramphela – DPhil (h.c.)	2014	ML Blum – PhD (h.c.)
	De la H de Villiers – DScAgric (h.c.)		HJO van Heerden – LLD (h.c.)		L Mulvey – DLitt (h.c.)
	GJ Stander – DSc (h.c.)		FJ van der Merwe – PhD (h.c.)	2015	L Brahimi – DPhil (h.c.)
1976	AJA Roux – DSc (h.c.)	2000	MH Daling – DCom (h.c.)		JM Samuel – DEd (h.c.)
1978	SP Botha – DSc (h.c.)		TN Liversedge – PhD (h.c.)		MA Oduyoye – DTh (h.c.)
	EM van Zinderen Bakker – DSc (h.c.)		I Mahomed – LLD (h.c.)		JD Sacks – DEcon (h.c.)
	HB Thom – DEd (h.c.)	2001	BP Gilbertson – DCom (h.c.)	2016	RJ Khoza – DEcon (h.c.)
1979	FCL Bosman – DPhil (h.c.)		NR Mandela – LLD (h.c.)		TA Manuel – DEcon (h.c.)
	G Cronjé – DSocSc (h.c.)		EC Taglauer – DSc (h.c.)		M du Preez – PhD (h.c.)
	CJF Human – DCom (h.c.)	2002	BH Meyer – PhD (h.c.)		J Samoff – DPhil (h.c.)
1980	G Boonzaier – DPhil (h.c.)		BAK Rider – LLD (h.c.)		F Haffajee – PhD (h.c.)
1981	PW Botha – DPhil (h.c.)		CF Slabber – PhD (h.c.)	2017	PH Holloway – DSc (h.c.)
	B Human – DCom (h.c.)		JM Stetar – DEd (h.c.)		M Botha – LLD (h.c.)
	SG Shuttleworth – DSc (h.c.)	2003	EWA de Corte – DEd (h.c.)	2019	BL Fanaroff – DSc (h.c.)
1982	BLS Franklin – DPhil (h.c.)		HA Serebro – DPhil (h.c.)		J Mofokeng wa Makhetha – DLitt (h.c.)
	GvN Viljoen – DEd (h.c.)		AG Sykes – DSc (h.c.)		MB Molemela – LLD (h.c.)
1983	L Luyt – DCom (h.c.)	2004	S Badat – DPhil (h.c.)	2021	ZM Yacoob – LLD (h.c.)
	SF Zaaïman – DPhil (h.c.)		R Bringle – DPhil (h.c.)		SM Pityana – DPhil (h.c.)
1984	HS Steyn – DSc (h.c.)		J de Wet – DMus (h.c.)		RJ van Niekerk – DLitt (h.c.)
	FR Tomlinson – DScAgric (h.c.)		CF Fauconnier – DSc (h.c.)	2022	WK Byanyima – PhD (h.c.)
	JH vd Berg – DMed (h.c.)		GJ Gerwel – DPhil (h.c.)		DM Davis – LLD (h.c.)
1985	L Alberts – DSc (h.c.)		WD Jonker – DTh (h.c.)		DE Moseneke – LLD (h.c.)
	GG Cillié – DPhil (h.c.)		A Krog – DLitt (h.c.)		AL Sachs – LLD (h.c.)
	SPD le Roux – DLitt (h.c.)		K Mokhele – DPhil (h.c.)		MJ Wingfield – DSc (h.c.)
	A Polson – DPhilMed (h.c.)		CJC Nel (Postuum) – PhD (h.c.)	2023	M Musk – DDiet (h.c.)
	J du P Scholtz – DPhil (h.c.)		L Quayle – DMus (h.c.)		A Ekwamu – DSc (h.c.)
1986	S Grové – DMus (h.c.)		T (Karel) Schoeman – DLitt (h.c.)		D Pepler – DSc (h.c.)
	FP Retief – DMed (h.c.)		YK Seedat – DMed (h.c.)		PCJ Vale – PhD (h.c.)

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

1994	Prof FO Müller (Shield of Honour)
	RE Schoombie (Shield of Honour)
1995	Prof FO Müller (Chancellor's Medal)
	RE Schoombie (Chancellor's Medal)
1996	Prof S Mittman (Shield of Honour)
1997	Prof M Jansens (Shield of Honour)
1998	Prof CJC Nel (Chancellor's Medal)
	Prof C Swanepoel (Chancellor's Medal)
1999	WJ (Hansie) Cronje (Shield of Honour)
	Prof David Justice (Shield of Honour)
2000	Prof P Rosseel (Shield of Honour)
	Prof MJ Viljoen (Chancellor's Medal)
2001	Prof PC Potgieter (Chancellor's Medal)
2002	T Moss (Shield of Honour)
	Prof CD Roode (Chancellor's Medal)
2003	Prof HC Janse van Rensburg (Council Medal)

2008	Prof SA Petersen (Shield of Honour)
	Ludo Helsen (Shield of Honour)
2009	Prof JU Grobbelaar (Council Medal)
2010	Mrs AM Dippenaar (Chancellor's Medal)
2014	Dr H Verster (Chancellor's Medal)
2014	Mr JL Pretorius (Chancellor's Medal)
2016	Mr AD Osler (Chancellor's Medal)
	Ms M van der Merwe (Chancellor's Medal)
2017	Ms JS Isaacs (Chancellor's Medal)
2019	Mr JF de Villiers (Chancellor's Medal)
	Ms EM Oosthuizen (Council Medal)
2022	Dr N Pearce (Chancellor's Medal)
	Mr N Janse van Rensburg (Council Medal)
2023	Prof MG Lötter (Chancellor's Medal)
	Prof SC Brown (Council 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. 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!

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

Letsatsi lena ke le kgethehileng ka nnete. 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 tshetsa 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 fihlela sehlohlolo sena sa katleho. Le fihlile motsotsong ona mme re motlotlo ka lona haholo.

Ka dinako tsohle amohelang le ho lemoha bohlokwa ba dintlha tseo le di fihleletseng ha jwale le tlhola 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 tlhola ya ho ithuta setheong sa thuto se nang le nalane e ntle e kgemang le bomphato ba yona ba hlomphehang naheng, jwalo ka ha ho boletswa 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 hlalisang phetoho le mokgwa o hlalisang melemo e meholo ka ho fetisisa. Le hoja mishini ya yunivesithi ya rona ka dinako tsohle e bile ho le hlomella ka tsebo le bokgoni bo hlokalalang ho etsa phetoho dithutong, re boela re lemoha hore dintho tsa boleng di bohlokwa ho etsa phapang metseng ya lona.

UFS e kgothaletsa haholo ho etsa bonnete ba hore baithuti le mofo ba na le boiphihlelo ho hlalohetseng ka mahetla ba yunivesithi. Maikemisetso sa rona a ho hahamella diphihlelo tse ipabolang, re motlotlo hore tikoloho ya rona ke e loketseng bakeng sa fana ka bohlahele le tsebo ho atleha. Ka labaka lena, makgabane a rona bakeng sa diphihlelo tse ipabolang, mehopollo e metjha le tshusumetso e ntle, boikarabelo, tlhokomelo, le toka e se nang leeme setjhabeng, le ho tswella ke dintho tse bopeletsweng 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 tlang, hopolang ho phehella ditabatabelo tsa lona ka



tjheseho, mme le tswelle pele ho ba le takatso ya ho etsa phapang bophelong ba batho ba bang. Etsang hore le dikadiketswe ke batho ba sebele metseng ya sebele, ha le ntse le ruta le ho jala mosa, kutwelobohloko, tjanjello, le temoho ya ditaba tsa sebele. Haeba le batla ho sebetsana le dipakane tse sa qetwang le ho theha lefathe le betere – hahang marogo, dulang le le bohlahele, le ho theha maqhama a lona a ditsebedisano. Bophelo e ka ba bo phephetsang haeba o sebetsa o le mong – le ha ho le jwalo, diphetho tse babatsehing di ka fihlellwa ka tsebedisano le ho ba ngatana-ningwe.

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 katleho e tswelang pele mekutung ya rona kaofela!

**S**iyanamukela emcimbini wokwethweswa kweziqo weNyuvesthi yase-Free-State.

Namuhla usuku olungeke lwakhohlakala. Mincane kakhulu imicimbi enedumela okudlula lo wokwethweswa iziqu. Alubalulekile kunina kuphela lolu suku, kodwa nakulabo ebebewa bevuka nani. Abaningi benu bebehlahelwe ukubhekana nengwadla ukuze bafike kulesi siphetho sanamuhla. Abaningi benu abokuqala ngqa emindenini yabo ukufinyelela kulesi sigaba sempilo. Niwujululeke lo mzuu ngakho kumele nijabule ngendlela engefaniswe. Hlala njalonzalo ukutusa futhi ukubonga ukubaluleka kokuphumelela kwakho njengoba ukhula usuka ekubeni umfundi weNyuvesthi yase-Free State udlelela ekubeni isifundiswa sayo.

Bafundi, nibe nethuba eliyinqayizivele lokufunda esikhungweni semfundo ephakeme esizishaya isifuba ngerekhodi elihamba phambili uma liqhathaniswa nelozakwabo ezingeni lezwe njengoba kugqamile ezikhungweni ezimbili ezikala ukuthuthuka kwamanyuvesi okuyi-Times Higher Education World University kanye ne-Impact Rankings. Ubufakazi obuphathekayo bukhomba ukuthi imfundo ephakeme inethonya lokusebenza njengesikhali soguquko nanjengentuba yokusimama njalonzalo. Noma sazi ukuthi inhlosongangi yenyuvesi yethu ukukugixabeza ngolwazi namakhono adingekayo ukwenza ushintsho emkhakheni wakho wemfundo, kodwa asikushayi indiva ukuthi amava nobuqotho kusabalulekile nakho ekutheni nenze ushintsho nasemiphakathini yenu.

INyuvesthi yase-Free State ikwenza ngobuyoninco ukuthi iqinisekise ukuthi abafundi nabasebenzi banomaka ongesuswe ezinhlizweni zabo wokuthi iyini inyuvesi. Entshisekelweni yethu yobuyoninco, siyaziqhenya ekutheni isikhungo sethu siyinkundla efanelekile ukuthi kusimame ulwazi nobunjulab' chopho. Lokho kusitshela ukuthi, amava obuyoninco bethu, ukuthuthuka ngolwazi lwesimanjemanje nomthelela walo, ukungabalekeli amaphutha, ukubekezelelana, ukungakhetshi iphela emasini, kanye nokucabangela isizukulwane esilandelayo kusezimpandeni zazo zonke izinhlelo zenyuvesi ezikhona.

Bafundi, noma ngabe yini ozozibandakanya nayo engomusweni/ekusaseni, ungakhohlwa ukuthi inhliziyi yakho ilele kuphi, ungalinge ulahlekelwe unembeza wokuletha uguquko ezimpilweni zabanye. Zibandakanye nabantu abahluzile futhi abaphuma emiphakathini ephilayo, ithi ukwenza lokho ube nobuntu, uzwele, ukubekezela, uphinde uhlolisise ukuthi yini ekhungathe umphakathi. Uma ufuna ukufezekisa amaphupho aleli lizwe ulenze libe izwe elingcono – centa indlela yakho, ungabheki emuva futhi ungalutheki, bese usondeza izingcithab' chopho eduze. Impilo ingase ibe umqansa uma uyinkomo edla yodwa – kodwa nasi isisombululo, okuningi kungaphumelela uma uqonda ukuthi injobo ithungelwa ebandla.

Kukuwe ukuthi uzimatanise nabantu abahlelekile, bese ulwisana nokuxabana okwenza bagcine abantu bengasabhekani, bese welula isandla kulabo abakhishwa inyumbazane nabaphila ngonkosi sikelela.

Sithi halala kubo bonke abazothwesa iziqu!  
Sengathi ningahlale niphumelela nanoma yikuphi lapho nihamba khona!

# VISION130

*Renew and Reimagine  
towards 2034*

**T**he University of the Free State (UFS) aims to continue growing and extending its influence and impact locally, regionally, and globally. Vision 130 is an elaboration of our strategic intent to reposition the institution for 2034, when the university will commemorate its 130th anniversary. It reflects our ambition to be a university with a consistent outward focus, and to be profound in what we deliver – building on past achievements, while constantly transforming ourselves in order to stay relevant within the dynamic and ever-changing international higher education sphere.

## **VISION**

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**

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

## **VALUES**

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 PARTNERSHIPS, AND SOCIETAL IMPACT**  
 Dr M Qhobela  
 PhD (KSU)



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



**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)



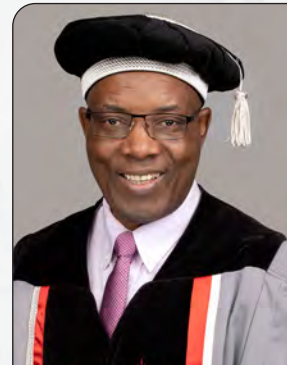
**DEAN:  
HEALTH SCIENCES**

Prof GJ van Zyl  
PhD (UFS)



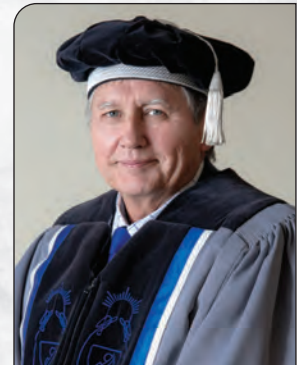
**DEAN:  
THE HUMANITIES**

Prof MA Masoga  
PhD in Philosophy (UFS)



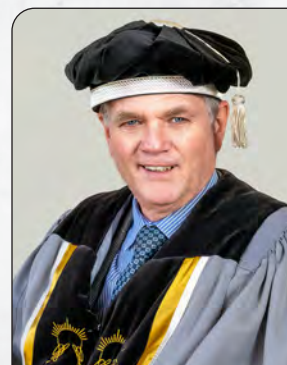
**DEAN:  
LAW**

Prof SD Kamga  
LLD (UP)



**DEAN:  
NATURAL AND  
AGRICULTURAL SCIENCES**

Prof PD Vermeulen  
PhD (UFS)



**ACTING DEAN:  
THEOLOGY AND RELIGION**

Prof F Tolmie  
PhD, DTh (UFS)

# QWAQWA CAMPUS SENIOR LEADERSHIP



**CAMPUS PRINCIPAL**

Dr M Mandew  
PhD (UN)



**CAMPUS VICE-PRINCIPAL:  
SUPPORT SERVICES**

Mr TI Manchu  
MA (UFS)



**CAMPUS VICE-PRINCIPAL:  
ACADEMIC AND  
RESEARCH**

Prof MP Sithole  
PhD (Cambridge)



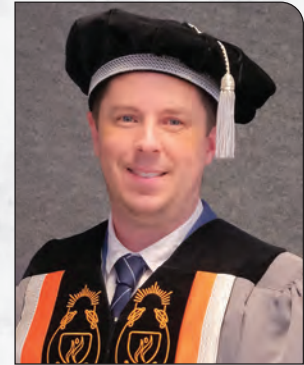
**ASSISTANT DEAN:  
ECONOMIC AND  
MANAGEMENT SCIENCES**

Dr C Mudzingiri  
PhD (UFS)



**ASSISTANT DEAN:  
EDUCATION**

Dr CT Tsotetsi  
PhD (UFS)



**ASSISTANT DEAN:  
THE HUMANITIES**

Dr J McDonald  
PhD (London)



**ASSISTANT DEAN:  
NATURAL AND  
AGRICULTURAL SCIENCES**

Prof A Le Roux  
PhD (SU)

## GUEST SPEAKER

MR TEMBA HLASHO



**M**r Temba Hlasho assumed duty as Executive Director: Student Affairs at the University of the Free State on 1 July 2021.

He has valuable experience in leading and providing strategic direction to student service divisions, and has developed, reviewed, and implemented departmental strategies. He has worked in senior management and interacted to a large extent with student structures and the Student Representative Council, gaining appropriate experience in understanding student dynamics, intersectionality, and the complexities of the higher-education sector.

Mr Hlasho's vision includes enabling and supporting learning and living environments, professionalising Student Affairs, promoting and ensuring social justice, social cohesion, and critical diversity, strengthening student governance and engagement for academic success, and the alignment of funding to prioritised activities that support the Academic Project.

He holds a fifth dan black belt in judo and is an executive member and the current President of Judo South Africa. He is an executive member of the Commonwealth Judo Association and serves on the BOD of the University Sport Company.



**DEAN |  
PROF P BURGER**

**ASSISTANT DEAN |  
DR C MUDZINGIRI**

**BACHELOR'S DEGREES**

**BACHELOR OF  
ADMINISTRATION**

DAKA, Pulane Elizabeth  
 DHLAMINI, Makanana Gladys  
 DLAMINI, Andile Goodman  
 DLAMINI, Samkelo  
 DLAMINI, Siboniso Thandanani  
 DLAMINI, Thandi Macy  
 GAMBU, Zandile Amanda  
 GUMEDE, Sibekezelo  
 GWALA, Mphakamiseni Alfred  
 HLALELE, Neo  
 HLONGWA, Ayanda Asnath  
 KAMEDE, Veronica  
 KOLOBETSO, Selinah Karabo  
 KOMA, Mpolokeng Joyce  
 KOZA, Nombulelo Precious  
 KUBHEKA, Nokukhanya  
 Nonkululeko  
 KUBHEKA, Siphesihle Sydney  
 KUMALO, Faruku Simon  
 LAMULA, Nhlakanipho

LEPONO, Clinton  
 MABASO, Mfanafuthi Simiso  
 MABASO, Philasande Sibonelo  
 MABASO, Sanele Mthunzi  
 MABESELE, Motlalepula  
 MAKAE, Dimakatso Agnes  
 MAKHUBO, Ntombi Ranidar  
 MANDANA, Melina Phindile  
 MANQELE, Lethukuthula  
 MANZINI, Nikiwe  
 MAQHUBELA, Pheleka  
 MASANGANE, Tumelo  
 MASHEGO, Princess  
 MATHEBULA, Richard  
 MAVIMBELA, Bongani  
 Sihlebongani  
 MAZWI, Chulumanco  
 MBHELE, Nobuhle Pamela  
 MDAKANE, Slindile Pearl\*  
 MDLALOSE, Lindokuhle  
 MDLALOSE, Malibongwe  
 Siphokazi  
 MDLOLO, Ayanda Samukelisiwe  
 MEYA, Thandi Beauty  
 MHLABA, Mpolokeng Elizabeth  
 MKHIZE, Mondli James  
 MKHIZE, Nomvelo\*  
 MKHIZE, Zamantungwa Mfanelo  
 MKWANAZI, Tebello Clement  
 MKWENA, Precious Lindokuhle  
 MNCULWANE, Mpho Ignatia  
 MNGUNI, Noxolo

MOFOKENG, Lebohang  
 Sheringham  
 MOFOKENG, Moleboheng  
 Lorraine  
 MOFOKENG, Nthabiseng Qeto  
 MOFOKENG, Siphon Daniel  
 MOHODI, Tebello Edward  
 MOKHITLI, Madilemo Martha  
 MOKOENA, Dineo Alice  
 MOKOENA, Malitlhare Annah  
 MOKOENA, Monnana Amos  
 MOLOI, Alosi Ernest  
 MOLOI, Thato Gannet  
 MOSIA, Ntswaki Alinah  
 MOTAUNG, Dibuseng Irene  
 MOTAUNG, Jethro  
 MOTAUNG, Mamogebelo Hilda  
 MTHABELA, Kenneth Sphelele  
 MWELASE, Lindokuhle  
 Knowledge  
 NCANE, Blondy  
 NDLOVU, Cebisile Precious  
 NDWENI, Jabulile  
 NGCOBO, Sanele Sbusiso  
 NGOBENI, Sibongile\*  
 NGUBANE, Nontobeko Londeka  
 NKABINDE, Thembinkosi  
 NKALA, Thuthukani Bandile\*  
 NKOPANE, Kgitumetse Precious  
 NTELA, Poppy Rosinah  
 RADEBE, Mandla Emmanuel  
 RAMOSOELU, Dibuseng



SEKAMOTHO, Selloane

SEKGOBELA, Maybe Wendy

SELLO, Lerato Pulane

SENOOANE, Itumeleng

SHANGASE, Silondokuhle

SHANGASE, Thobani

SHAZI, Senzekile

SHELEMBE, Nondumiso  
Thokozaphiwe

SIBEKO, Mthobisi\*

SIBEKO, Zanokuhle Lusanda

SIBISI, Nhlakanipho Peaceful

SIKHAKHANE, Gugulethu

SIKHAKHANE, Welile

SIKOSANA, Matieho Anna

SIMELANE, Nonkululeko Brilliant

SITHOLE, Nokwanda Thandekile

STEMMER, Tshepiso Gloria

TAUNYANE, Mmowe Kgauhelo

TSHABALALA, Busisiwe Linah

TSHABALALA, Francina Ouma

TSHABALALA, Ntombikanise  
Yvonne

TSHUKUDU, Annie Priscilla

TYUMBU, Palesa Precious

VILANE, Colile Promise

ZULU, Siphesihle Noluthando

ZULU, Thandekile

ZULU, Wandile Nobuhle

ZUMA, Senamile

ZUMO, Nnini Cathrine

ZWANE, Alisa Patricia

## **BACHELOR OF COMMERCE IN GENERAL MANAGEMENT**

HLATSHWAYO, Thembeka  
Sindiswa

MAHLANGU, Khethiwe Martha

MODISE, Dimakatso Perl

MUTHAKHI, Ndamulelo

## **BACHELOR OF COMMERCE WITH SPECIALISATION IN GENERAL MANAGEMENT**

MBOYISA, Fezile

MOKOATLE, Wendy

TSHABALALA, Motlalepula John

## **BACHELOR OF COMMERCE WITH SPECIALISATION IN MANAGEMENT**

HADEBE, Zathini Phumlani

HLATSHWAYO, Xolani

KUNENE, Bongeka

MABASO, Nomvula Lina

MAZIBUKO, Nhlakanipho Doctor

MNGADI, Sindisa

MOKOENA, Tumelo Vincent

MOTETE, Katleho Constance

MTHANTI, Akhona Ayanda  
Nomfundo

NALA, Sandisiwe Nozibusiso

NENE, Kwanele Bongwiwe

NHLAPHO, Nosihle

RADEBE, Qiniso Zamahlubi  
Cebisile

THAKENG, Mamello

TLAKE, Lehlohonolo

TOBELA, Felicia Palesa

ZINDELA, Anele Nomvula

ZONDI, Sbonelo



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

**ASSISTANT DEAN |**  
**PROF A LE ROUX**

## **BACHELOR'S DEGREES**

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

DLADLA, Seluleko Ngcebo

MASINA, Sibongile

MDANYANA, Milokuhle Kaizen

NARE, Temoso

RAMOTHLOKOANE, Lomile  
Gladys

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

MAKHAFOLA, Bokamoso Michelle

MOKHOTHU, Relebohile

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

MOLEFE, Basetsana Caliphonia

MTHEMBU, Simphiwe Mbalenhle

MTHETHWA, Nonhlanhla

NSIBANDE, Lethukuthula  
Happyboy

RALENKOANA, Senate Adelinah

### **BACHELOR OF SCIENCE IN MATHEMATICS AND GEOGRAPHY**

MOFOKENG, Thembelihle

### **BACHELOR OF SCIENCE MAJORING IN BIOLOGICAL SCIENCES**

BLAYI, Leah Liyabona

MAZIBUKO, Lungelo Stanley

MCHUNU, Lungile Nokubongwa

NTHAPO, Boitumelo

ZULU, Noluthando

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

LESENYEHO, Pius Pampiri

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

MODIBEDI, Sylvia

MSWANE, Sibahle Joy

NTJEBE, Nthabiseng Josephine

RAMOSOELU, Selloane

SITHOLE, Zinhle

TLALI, Malefu Julia

### **BACHELOR OF SCIENCE MAJORING IN CHEMICAL AND PHYSICAL SCIENCES**

HADEBE, Nompilo Ndondo

NDLELA, Sabelo

NGUBANE, Kwanele Cynthia

SHEZI, Bonginkosi

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

MAZIBUKO, Xolile Pretty

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

DAMBE, Julia Tsidi

DLAMINI, Mpho Charlotte

MAPHAKISA, Matshediso  
Dorothea

MHLUNGU, Siphamandla Mzamo

MTHEMBU, Thandi Sarah

NTOMBELA, Gugu Nombuyiselo

SOKHELA, Victor

SONDEZI, Ntombikayise  
Thandeka

VILAKAZI, Sphamandla Peter



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

NHLAPO, Biki Shadrack

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

BUTHELEZI, Nhlakanipho

HADEBE, Siboniso Mlungisi

KHUMALO, Mahluli

MAZIBUKO, Yolanda Pretty

MBONGO, Zinhle

RADEBE, Sakhile

RAMATHIBE, Mohlouoa Jafta

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

HLAKOTSA, Noel Lester

SHABALALA, Siyanda Sonwabile

## **BACHELOR OF SCIENCE MAJORING IN GEOGRAPHY AND LIFE SCIENCES**

KABA, Welile Promise\*

KATSANDE, Nomsa Florence

RAMAELE, Maipato Lizzy

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

MOSIKILI, Bongiwethu

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

DLALISA, Zandile Getrude

MASEKO, Ntombizodwa Julia

SABISA, Ntsoaki Wistorinah

SIBISI, Nompumelelo Penelop

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

MAKHALEMELE, Katileho France

SEHAOLE, Isaac Molefi

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

JOE, Mary

MACHUGA, Motsomishi Lizzy

MOFOKENG, Molato

## **HONOURS DEGREES**

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

BUTHELEZI, Thulile

CARVALHO, Gcinile Blessing

MSIBI, Sinethemba Ntombi

NDIMANDE, Muzikayifani Penuel

NDLOVU, Ntokozi Sinenjabulo

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

NDALENI, Dimakatso Dumisile  
Queen\*

NDIMA, Nosipho

VILAKAZI, Sanelisiwe

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

CHOEU, Gedro Malehudu

MAROLE, Mbali

MOLEBATSI, Dineo

NKOMO, Qiniso

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

KHUMALO, Londiwe Nokubongwa

KUMALO, Fisokuhle Innocentia

MOTSIELOA, Tshepang  
Lehlohonolo

MZOLO, Siphumelele

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

SISHANGE, Nkanyiso Ntuthuko





## MASTER'S DEGREES

### MASTER OF SCIENCE MAJORING IN BOTANY

**MOLOI**, Lerato

**Dissertation Title:** PHYSIOLOGICAL, BIOCHEMICAL AND ROOT PROTEOME RESPONSES OF MAIZE SEEDLINGS TO DROUGHT STRESS

**Supervisor:** Dr R Ngara

**Co-Supervisor:** Dr A Gokul

**MOSEA**, Dipuo

**Dissertation Title:** METABOLIC AND PROTEOMIC RESPONSES OF SORGHUM CELL CULTURES TO POLYETHYLENE GLYCOL-INDUCED OSMOTIC STRESS

**Supervisor:** Dr S Chivasa

**MUTHEGO**, Dakalo\*

**Dissertation Title:** MOLECULAR CHANGES OF SORGHUM CELL SUSPENSION CULTURES IN RESPONSE TO EXOGENOUS ABSCISIC ACID

**Supervisor:** Dr R Ngara

### MASTER OF SCIENCE MAJORING IN CHEMISTRY

**HLATYWAYO**, Nomagugu Grace

**Dissertation Title:** PREPARATION AND CHARACTERISATION OF PORPHYRIN- FUNCTIONALISED SILICA CONJUGATES FOR THE REMOVAL OF HEAVY METALS IN WASTE-WATER

**Supervisor:** Dr RF Shago

### MASTER OF SCIENCE MAJORING IN GEOGRAPHY

**MOFOKENG**, Lehlohonolo

**Dissertation Title:** AN ASSESSMENT OF ECO-HYDROLOGY FACTORS ON WATER DEMAND MANAGEMENT OF THE ORANGE – SENQU RIVER HEADWATERS, SOUTH AFRICA

**Supervisor:** Dr PS Mahasa

### MASTER OF SCIENCE MAJORING IN PHYSICS

**MOKOENA**, Mosidi

**Dissertation Title:** STRUCTURAL AND OPTICAL PROPERTIES OF

RARE-EARTH ACTIVATED PHOSPHOVANADATE MATERIALS PREPARED BY CBD

**Supervisor:** Dr SJ Motlounq

**Co-Supervisors:** Prof BF Dejene and Dr KG Tshabalala

**PHOKOJOE**, Rethabile Andries\*

**Dissertation Title:** SYNTHESIS AND CHARACTERIZATION OF  $\text{LiNi}_{0.8}\text{Mn}_{0.1}\text{Co}_{0.1}\text{O}_2$  (NMC811) DOPED WITH VARIOUS TRANSITION METAL IONS ( $\text{Zn}^{2+}$ ,  $\text{Cu}^{2+}$ ,  $\text{Cd}^{2+}$  and  $\text{Pb}^{2+}$ ) FOR APPLICATION IN ENERGY STORAGE MATERIALS

**Supervisor:** Prof LF Koao and Dr M Kebede

### MASTER OF SCIENCE MAJORING IN ZOOLOGY

**MZIZI**, Sindiswa

**Dissertation Title:** NEW BEHAVIOURAL ECOTOXICOLOGY BIOASSAYS BASED ON GRAVITAXIS AND THE TOXICITY OF IMIDACLOPRID ON THE ANT LINEPITHEMA HUMILE

**Supervisors:** Dr PV Otomo and Dr PN Mothapo



## DOCTORAL DEGREES

### DOCTOR OF PHILOSOPHY MAJORING IN BOTANY

**MAPAURA, Anthony**

Anthony Mapaura was born in Marondera on the 30th of August 1969. He received his secondary education in Marondera, where he matriculated at the Rakodzi High School in 1994. He obtained a National Diploma in Biological Sciences Techniques at the Harare Polytechnic College in Zimbabwe in 1995. He received a BSc. in Agricultural Management at the Zimbabwe Open University in 2003 and his MSc. in Tropical Ecology at the University of Zimbabwe in 2008. He started his career as a Research Technician at the National Herbarium and Botanic Garden, Harare, and currently serves as Principal Research Officer at the Institute.

With his thesis titled, **DETERMINING THE TRAJECTORY OF GRAMINOID INVASIONS IN SOUTHERN AFRICA'S MOUNTAINS: THE CASE OF NASSELLA**, Anthony contributed to an improved understanding of this group of invasive grasses that have historically been underrepresented in invasion biology research. The Nassella species were found to be more widely distributed than previously known and are predicted to continue to expand their ranges. All three Nassella species present a serious threat to South African grasslands and this work will play an important role in guiding future management strategies

**Supervisor:** Prof S Steenhuisen

**Co-Supervisors:** Dr K Canavan, Prof VR Clark, Prof DM Richardson

### DOCTOR OF PHILOSOPHY MAJORING IN GEOGRAPHY

**HADEBE, Patronella Emah**

Patronella Hadebe was born on 12 June 1988 in Pretoria. She matriculated at Zinikeleni Secondary School in Mpumalanga in 2005 obtaining position 7 in the Grade 12 top ten. She later attained a Bachelor of Arts Degree majoring in Public Administration in 2009. She graduated with an Honours Degree in Public Administration in 2011 and a Master's Degree in Town and Regional Planning in 2016 from the University of Pretoria. Her career began as an Intern at the National Department of Transport and she rose through the rank and later moved to the Nkangala District Municipality as a Divisional Manager responsible for Transport Planning.

With her thesis titled, **A COMPARATIVE ASSESSMENT OF SPATIAL PLANNING OF THE CITY OF JOHANNESBURG METROPOLITAN MUNICIPALITY AND THE CITY OF TSHWANE METROPOLITAN MUNICIPALITY IN GAUTENG, SOUTH AFRICA** the candidate contributes urban geography focusing on how spatial planning impacts spatial transformation. Using a mixed-method approach and systems theory, Patronella sampled 200 residents from Soshanguve and Alexandra and 44 government officials to understand and explain the role of spatial planning in Tshwane and Johannesburg. Applying the systems theory facilitated a multidisciplinary approach to spatial planning in terms of transportation, human settlement and infrastructural development which enabled Patronella to draw connections between urban planning, development planning and urban design. The study has provided a methodological approach which may be used by other urban planning and geography scholars who intend to undertake similar studies in politically sensitive environments with special focus to spatial planning and citizens access to basic services.

**Supervisor:** Prof S Adelabu

**Co-Supervisor:** Dr R Matamanda and Prof T Okello



## **MASHIANE, Katlego Kgabo**

Katlego was born in Polokwane the capital city of Limpopo, in South Africa. He was raised in a small village of Ga-Mabotja situated just 25 km out of the capital and this is where he started school at Leetetja Primary. This village is surrounding the Rocky Mountains characterised by boulders outcrops and this enables Katlego to interact with Nature consistently in growing. Upon completion of matric in the year 2010, he studied BSc, Environmental Sciences and MSc in Geography and the University of Limpopo and Pretoria, respectively. He is a versatile scientist, having worked for the National Research Foundation and South African National Parks.

With his thesis titled, **GRASS NUTRIENTS ESTIMATION AS AN INDICATOR OF RANGELAND QUALITY USING SATELLITE REMOTE SENSING**, the candidate sought to identify and model the main driver of plant biodiversity in grass plant communities using both in-situ sampling techniques and satellite multi-spectral remote sensing. This study focused on the premise that species diversity is beneficial for providing ecosystem services on which humans rely and that biodiversity loss will reduce ecosystem services. In the study site, the most prevalent ecosystem service is grazing of both domestic and wild animals, which are controlled by the availability of grass species. The study made use of a random forest machine learning algorithm for selecting optimal bands which can be used to estimate species richness, diversity and nitrogen in a protected national conservation park. For species richness and diversity, Near Infrared emerged as the most important variable, together with the vegetation in indices such as EVI and SAVI. These best-performing spectral bands have used the input to model the occurrence of biodiversity and nutrients.

**Supervisor:** Prof S Adelabu

**Co-Supervisors:** Prof A Ramoelo

# THE SEANAMARENA THE TRADITIONAL BASOTHO BLANKET



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

South 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.



# 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.

### 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/)

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

T: +27 51 401 9199 | E: [alumni@ufs.ac.za](mailto:alumni@ufs.ac.za) | [www.ufs.ac.za](http://www.ufs.ac.za)

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Renewal and Reimagination  
for Greater Impact



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ALUMNI