



APRIL 2021

GRADUATION CEREMONY

Master's and Doctoral Degrees

BLOEMFONTEIN
CAMPUS

Faculties of Economic and Management Sciences, Education, Health Sciences, The Humanities, Law, Natural and Agricultural Sciences and Theology and Religion

Master's and Doctoral Degrees

THURSDAY | 22 APRIL 2021 | 10:00



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

PROGRAMME

22 APRIL 2021 | BLOEMFONTEIN CAMPUS

CONSTITUTION OF THE CONGREGATION

Chancellor: Prof B Mohale

OFFICIAL WELCOME AND WORD OF THANKS

Rector and Vice-Chancellor: Prof FW Petersen

INTRODUCTION OF GUEST SPEAKER

Vice-Rector: Research, Innovation and Internationalisation
Prof RC Witthuhn

GUEST SPEAKER

Executive Chairman: Izingwe Holdings (Pty) Ltd
Dr SM Pityana

MUSICAL ITEM

Franz Schubert (1797 – 1828)
Ständchen / Serenade
with Mongezi Mosoaka (tenor) and Margot Viljoen (piano)

PRESENTATION OF CANDIDATES

Vice-Rector: Research, Innovation and Internationalisation
Prof RC Witthuhn

PRESENTATION OF RECIPIENT OF AN HONORARY QUALIFICATION

Dean: Faculty of Law
Prof JC Mubangizi

CONGRATULATORY MESSAGE

Chancellor: Prof B Mohale

NATIONAL ANTHEM OF SOUTH AFRICA

Nkosi Sikelel' iAfrika

with Thesele Kemane (bass-baritone) and the Odeion String Quartet:
Samson Diamond (violin) | Margot Viljoen (violin)
Jeanne-Louise Moolman (viola) | Anmari van der Westhuizen (cello)

DISSOLUTION OF THE CONGREGATION

Chancellor: Prof B Mohale

PLEASE NOTE

List of candidates receiving degrees, diplomas and certificates:
An * next to a name indicates that the degree, diploma or certificate is awarded with distinction.



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.

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 our 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.

The UFS creates opportunities and growth through leading learning and teaching, focused research, and impactful engagement with society.

Situated in the heart of South Africa, our character of caring and diversity translates into an outstanding university experience.



BLOEMFONTEIN CAMPUS



QWAQWA CAMPUS



SOUTH CAMPUS

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.



MESSAGE FROM THE RECTOR AND VICE-CHANCELLOR

Dear Student

Congratulations on obtaining your degree! As a postgraduate student, you have become part of a fraternity of exceptional individuals who graduated before you at the University of the Free State (UFS).

You have accomplished much, and I know that you will continue to do so. During the past year, you may have felt robbed of so many things – but you were also blessed in ways that you might only realise later in life. You had to dig deep into your own reserves to get through lonely study hours and uncertain times – allowing you to discover and develop your own strengths and character.

We are proud to confer this degree upon you and we salute you for the years of hard work, perseverance, and dedication. As a university recognised for academic excellence and quality education, we are grateful to have partnered with you during your postgraduate journey – may you continue to explore and discover, wherever you are in life.

I also acknowledge and thank those who have helped you along the way to this big day – including your promoter, fellow students, friends, and loved ones. The more we learn, the more we realise how much we need each other and how much we contribute to one another's triumphs. Together, we will always win.

I invite you to stay connected with the UFS in the years to come, and to give back by supporting your alma mater. The continued involvement of our alumni strengthens the special community of alumni of this 117-year-old university.

May you experience a great sense of achievement, knowing that you have had an exceptional and enriching time at Kovsies.

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

I wish you well in your career and with your future endeavours.

PROF FW PETERSEN
RECTOR AND VICE-CHANCELLOR
UNIVERSITY OF THE FREE STATE

Beste Student

Baie geluk met die verwerwing van jou graad! As nagraadse student het jy deel geword van 'n gemeenskap van buitsonderlike individue wat voor jou aan die Universiteit van die Vrystaat (UV) gegradueer het.

Jy het baie vermag en ek weet jy sal voortgaan om dit te doen. Gedurende die afgelope jaar het jy waarskynlik gevoel dat jy beroof is van soveel dinge – maar jy is ook geseën op maniere wat jy waarskynlik eers later in jou lewe sal besef. Jy moes diep in jou eie reserwes delf om deur eensame ure van studie en onseker tye te kom – wat jou in staat gestel het om jou eie krag en karakter te ontdek en te ontwikkel.

Ons is trots om hierdie graad aan jou toe te ken en ons salueer jou vir die jare van harde werk, deursettingsvermoë en toewyding. As 'n universiteit wat erken word vir akademiese uitnemendheid en gehalte-onderrig, is ons dankbaar om deel van jou nagraadse reis te kon wees – mag jy voortgaan om te verken en te ontdek, waar jy jou ook al in die lewe bevind.

Ek gee ook erkenning aan en bedank diegene wat jou gehelp het op die pad na hierdie groot dag – onder wie jou promotor, medestudente, vriende en geliefdes. Hoe meer ons leer, hoe meer besef ons hoe nodig ons mekaar het en hoeveel ons tot mekaar se oorwinnings bydra. Saam sal ons altyd wen.

Ek nooi jou uit om in die toekoms met die UV in verbinding te bly en om terug te gee deur jou alma mater te ondersteun. Die voortgesette betrokkenheid van ons alumni versterk die spesiale alumnigemeenskap van hierdie 117-jaar-oue universiteit.

Mag jy 'n wonderlike gevoel van prestasie ervaar, wetende dat jy 'n voortreflike en verrykende tyd by Kovsies gehad het.

Die UV is immers 'n plek wat uitnemendheid inspireer en lewens verander.

Ek wens jou sterkte toe met jou loopbaan en met jou toekomstige ondernemings.

PROF FW PETERSEN
REKTOR EN VISEKANSELIER
UNIVERSITEIT VAN DIE VRYSTAAT



Moithuti ya Ratehang

Re a o lebohisa ka ho fumana mangolo a hao a degree. Jwalo ka moithuti wa postgraduate, o fetohile karolo ya batho ba kgethehileng ba fumaneng mangolo a bona a graduation pele ho wena mona University of the Free State (UFS).

O fihleletse ho hongata, mme kea tseba hore o tla tswela pele ho etsa jwalo. Nakong ya selemo se fetileng, e ka nna ya ba o ile wa ikutlwa o amohilwe dintho tse ngata – empa o ile wa putswa ka diitseta tse ngata. O ile wa tlameha ho kenye letsoho ka botebo mehloding ya hao e ka thoko le ho qeta dihora tsa hao o le mong o ithuta le dinako tse se nang botsitso – sena se ile sa o dumella hore o utolle le ho ntshetsa pele matla a hao le botho ba hao.

Re motlotlo ho o neha degree ena le ho o thoholetsa bakeng sa dilemo tsa mosebetsi o thata, phehello, le boinehelo. Jwalo ka yunivesithi e hlomphehang ka ho ipabola ka dithuto tsa yona le boleng ba thuto, re thaba haholo hore re bile bomphato le wena nakong ya leeto la hao la postgraduate – e se e ka o ka tswela pele ho fuputsa le ho sibolla, kae kapa kae moo o leng teng bophelong.

Ke boela ke leboha le batho ba ileng ba o thusa tseleng ya hao ho filha letsatsing lena la bohlokwa – ho kenyeletswa le promothara ya hao, bathuti-mmoho, metswalle, le baratuwa. Ha re tswela pele ho ithuta ka ho eketsehileng, re lemoha ka ho eketsehileng kamoo e mong a hlokang e mong kateng le hore re na le seabo se sehlole hakae katehlong ya ba bang. Jwalo ka ngatana-nngwe, kamehla re tla atleha.

Ke o mema hore o dule o hokahane le UFS dilemong tse tlang, le ho kgutlisetsa ka ho tshetsa alma mater ya hao. Seabo se tswelang pele sa alumni tsa rona se matlafatsa mokgatlo o kgethehileng wa alumni tsa yunivesithi ena e nang le dilemo tse 117.

E se e ka o ka ba le boikutlo bo kgethehileng ba phihlello, mme o tsebe hore o bile le nako e kgethehileng le e enneng mona Kovsies.

UFS, bonneteng, ke sebaka se susumetsang mosebetsi o tswileng matsoho le ho fetola bophelo.

Ke o lakaletsa tse ntle mosebetsing wa hao le mekutung ya hao ya ka moso.

MOPROFESARA FRANCIS W PETERSEN
MOREKTORO LE MOTLATSA MOKANSELIERI
YUNIVESITHI YA FREISTATA

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)

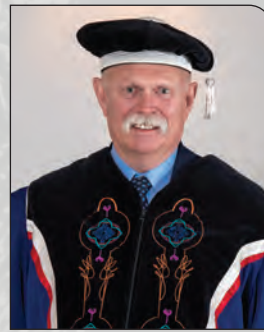
OFFICE BEARERS



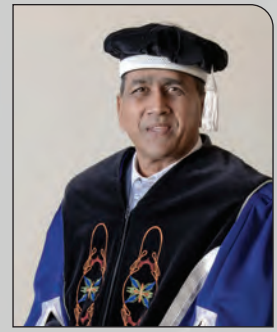
CHANCELLOR
 Prof B Mohale
 Professor of Practice (JBS)



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



CHAIR OF COUNCIL
 Dr W Louw
 PhD (SU)



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



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



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



REGISTRAR:
 Mr NN Ntsababa
 MPA (NMU)



**CAMPUS PRINCIPAL:
 SOUTH CAMPUS**
 Dr M Madioppe
 DEd (Unisa)



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



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



**PRESIDENT:
 INSTITUTIONAL STUDENT
 REPRESENTATIVE COUNCIL**
 Mr J Thoka

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)



**DEAN:
THEOLOGY AND RELIGION**

Prof RS Letšosa
PhD (PU/CHE)

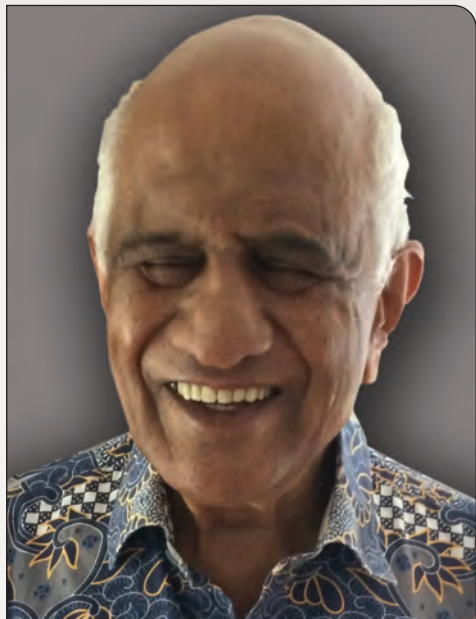


**ACTING DEAN:
STUDENT AFFAIRS**

Ms N Morris
MBA (Wits)

HONORARY DOCTORATE

JUSTICE ZAKERIA MOHAMMED (ZAK) YACOOB



Justice Zakeria Mohammed (Zak) Yacoob is a retired Justice of the Constitutional Court of South Africa. He became blind at the age of 16 months after contracting meningitis and matriculated at the Arthur Blaxall School for the Blind in Durban.

He completed his LLB at the University of Durban-Westville (UDW), where he joined the ANC underground movement. As an advocate (1973-1998), he defended political prisoners charged with defying the unjust apartheid laws, challenged detentions without trial, house arrests, and other restrictive decrees. Justice Yacoob also participated in anti-apartheid and community organisations, including the United Democratic Front, Detainees Parents' Support committee, DHAC, and disability organisations.

He was part of the Democratic Lawyers Association and took silk in 1991. Justice Yacoob participated in:

the negotiation process, and played a role in finalising the Bill of Rights in the 1993 Interim Constitution;

the Independent Electoral Commission responsible for South Africa's first democratic election in 1994;

the Independent Panel of Experts that advised the Constitutional Assembly in preparing the 1996 final Constitution.

As judge of the Constitutional Court of South Africa from 1998 to 2013, he became known nationally and internationally for his contribution to the socio-economic rights jurisprudence of South Africa.

Justice Yacoob attended national and international conferences and workshops on human and socio-economic rights, constitutionalism, disability, and blindness. He was also Chancellor of the UDW (2001- 2003). Justice Yacoob received the 2013 Felicia and Sydney Kentridge Award for Service to the Law in Southern Africa, and honorary doctorates from the Universities of Fort Hare, KwaZulu-Natal, Witwatersrand, Stellenbosch University, and the University of Pretoria.

He was Chair of SANAC Trust, served voluntarily on the boards of various civil society organisations, and as ombud at the University of KwaZulu-Natal.

Justice Yacoob participated in local and international commissions, among others, into a SARS commissioner's fitness to hold office and assessing the correctness of the conviction of the Cuban Five by the USA in London (March 2014). He chaired the People's 2015 Tribunal in the Netherlands into atrocities committed in 1965 by the then Government of Indonesia; and chaired a People's Tribunal into Economic Crimes in South Africa (2018).

Justice Yacoob retired as judge of the Constitutional Court at the end of January 2013.

GUEST SPEAKER

DR SIPHO MILA PITZYANA



Dr Siphon Mila Pityana holds a BA (Hons) from the University of Essex, an MSc from the University of London, and a Dtech (Honoris Causa) from the Vaal University of Technology.

He is a business leader with extensive

experience, having served in both executive and non-executive capacities on several local and international boards of blue-chip companies. He is the founder and Chairman of the private investment firms, Izingwe Capital and Izingwe Holdings. He is currently Chairman of the JSE-listed Redefine Properties and non-executive Director of the Absa Bank Group. He recently stepped down as Chairman of AngloGold Ashanti Limited, the world's third largest gold producer.

Dr Pityana is also President of the apex business confederation, Business Unity South Africa, where he led engagements with government and other stakeholders regarding economic development. He has played an important role in international business initiatives, including his role as Chair of the World Economic Forum Africa Stewardship board.

He serves on the Presidential Jobs Council, is the leader of the business delegation to the National Economic Development and Labour Council, and was one of the founding members of the governing body of the Commission for Conciliation, Mediation and Arbitration.

In addition to his private-sector track record, Dr Pityana has had extensive public-sector experience and international exposure. He was the first Director-General of the Department of Labour in the Mandela government. During his tenure in this role, he pioneered the transformative labour laws that restored the dignity of ordinary workers. As the Foreign Affairs Director-General, he has represented South Africa in various international fora, including the United Nations, African Union, and Commonwealth.

His passion for education has seen him serve as Registrar of the University of Fort Hare, Chairperson of the National Student Financial Aid Scheme (NSFAS), and he recently retired as Chairperson of the University of Cape Town Council. Dr Pityana is known for his commitment to the cause of social justice. He was the founding Chairperson of the Council for the Advancement of the South African Constitution CASAC and former convener and founder of Save South Africa. Together with other eminent citizens, he recently launched the Save our Democracy campaign.



DEAN |
PROF HJ KROUKAMP

MASTER'S DEGREES

MASTER OF BUSINESS ADMINISTRATION

BOOI, Siphumle
CHAWAREMERA, Edson
Simbarashe
FOURIE, Gert Snyman
MABALEHA, Ntseliseng Carol
MAJENGE, Lubabalo
MASHIBINI, Bongani
Perseverence
MASHOPHA, Kefuoe Mathenjiwe
MASISI, Mathapelo
MASISI, Moanaco Gosiamé
MEADES, Johannes Lodewikus
MOKHOBO, Lemphane
MOTSAMAI, Reitumetse Elizabeth
NDLOVU, Mlondolozzi*
POOPA, Neo Sylvia
PUTSOANE, Mahlalele Mosa
RAMONYATSI, Teboho Augustinus
Augustinus
SAAYMAN, Herman Petrus
Jacobus
SEBETE, Tumelo Alina
VAN DER MERWE, Amandie
VERHOEF, Jacobus Christiaan

MASTER OF COMMERCE WITH SPECIALISATION IN ECONOMICS

JANA, Getrude Rujeko

MASTER OF COMMERCE WITH SPECIALISATION IN FINANCIAL ECONOMICS AND INVESTMENT MANAGEMENT

JORDAAN, Hercules Viljoen

MASTER OF DEVELOPMENT STUDIES

AIHUKI, Vistorina Kaunahafo

ALEC, Boitumelo

HENNING, Aletta Petronella

Dissertation Title: A BUSINESS
MODEL FOR ARTS EDUCATION
IN A NON-FORMAL CONTEXT

Supervisor: Dr JH van Zyl

Co-Supervisor: Mrs GG Pretorius

KUNENE, Nomcebo Abigail

KUZWAYO, Emily Kenalemang

MANYAMA, Mpho Jason

MOSIA, Dikeledi Mabel

PHIRI, Chimwemwe*

PLAATJIE, Lindelwa Martha

SELEMELA, Konesoang Bohlale

TAU, Motsieli Joseph

MASTER OF INDUSTRIAL PSYCHOLOGY

DIEDERICKS, Jacobus Johannes

JONKER, Marli

MASTER OF PUBLIC ADMINISTRATION

MAKUMBI, Itumeleng Cynthia

PHOLOANA, Matshidiso Miklas

DOCTORAL DEGREES

DOCTOR OF PHILOSOPHY WITH SPECIALISATION IN BUSINESS ADMINISTRATION

KONDO, Tirivangani Jona

Thesis Title: A FRAMEWORK FOR THE DEVELOPMENT OF ENTREPRENEURSHIP WITHIN THE SECONDARY SCHOOL EDUCATION SYSTEM IN ZIMBABWE



Tirivangani Jona Kondo was born in Harare on the 7th of January 1974. He received his secondary education in Masvingo, where he matriculated at Victoria High School in 1990. He obtained a Diploma in Education in 1994, a degree in Physical Education & Sport in 2005, a Master's in Strategic Management with a distinction in 2015, and the PhD in Business Administration in 2021 at the University of Free State. He started his career as a teacher in Mt Darwin in 1995. In 2009 he was appointed Headmaster at Barwick School in Mutorashanga and at present, he is a Principal at Rydings College.

With his thesis, titled: **A FRAMEWORK FOR THE DEVELOPMENT OF ENTREPRENEURSHIP WITHIN THE SECONDARY SCHOOL EDUCATION SYSTEM IN ZIMBABWE**, the candidate makes a strong contribution to knowledge and scholarship in the field of entrepreneurship education. With this contribution, he sought to use the current debates on entrepreneurship education to equip students with skills and competencies for self-employment and job creation, particularly in countries with high levels of unemployment. The framework for entrepreneurship within the secondary education system is a novel idea and stands to benefit many youths on the African continent and solves a real-world problem that many other nations are faced with.

Promoter: Dr D Van Rooyen

RUWANIKA, Eliot Quinz Farai

Thesis Title: A LEADERSHIP COMPETENCE FRAMEWORK FOR THE BEVERAGES MANUFACTURING INDUSTRY IN ZIMBABWE

Eliot Quinz Farai Ruwanika was born on the 1st of January 1959 in the Guruve district in Zimbabwe. He is a Fellow of the Chartered Institute of Secretaries and Administrators and a registered public accountant with the Public Accountants and Auditors Board in Zimbabwe. He holds an MBA degree from MANCOSA. He started his working career in 1982 as an Accounts Clerk in the Coca Cola system in Zimbabwe, rising through the ranks to become an Accountant; Finance and Administration Executive; and Divisional General Manager. He joined FAO of the United Nations in 2007 and is currently a Finance and Administration Officer.

With his thesis, titled: **A LEADERSHIP COMPETENCE FRAMEWORK FOR THE BEVERAGES MANUFACTURING INDUSTRY IN ZIMBABWE**, the candidate developed a leadership framework (LCF) for Sustainable Development (LCFSD). A synthesis of sustainable development and leadership theories resulted in a draft LCF that informed a qualitative field enquiry. A subsequent thematic data analysis, interpretation and validation produced a LCFSD metaphorically depicted by a bicycle. It comprises the following pillars: strategic competences; core competences; core values and collaborative competences. Strategic competences are presencing; intergenerational systemic behaviour; reflexivity; stakeholder engagement; strategic awareness; sustainability thinking; knowledge of metrics of measurement; inclusivity skills; and multiple leadership styles. Core competences are social responsiveness; ecosystem thinking; self-leadership; knowledge of SDGs; and innovative thinking. Core values are ethics; caring for all; respect for all; diplomacy; beliefs in sustainable development; doing the best for local communities; and sustainability living. Collaborative competences are building diverse teams and partnering skills.

Promoter: Dr L Massyn

DOCTOR OF PHILOSOPHY WITH SPECIALISATION IN DEVELOPMENT STUDIES

KIBONA, Bertha Aliko

Thesis Title: HIGHER EDUCATION AND HUMAN DEVELOPMENT: STUDENTS' AND GRADUATES' PERSPECTIVES FROM TWO TANZANIAN UNIVERSITIES



Bertha Kibona was born in 1991 in Mbeya, Tanzania. She received her secondary education in Mbeya, where she matriculated at Pandahill Secondary School in 2008 and Sangu High School in 2011. She obtained a degree in Banking and Finance in 2014 and a master's degree in Finance and Investment in 2016, both from the Institute of Finance Management in Tanzania. She then pursued her PhD in development studies (2018-2020) at the University of the Free State.

With her thesis, titled: **HIGHER EDUCATION AND HUMAN DEVELOPMENT: STUDENTS' AND GRADUATES' PERSPECTIVES FROM TWO TANZANIAN UNIVERSITIES**, the candidate contributes to the scholarship on the developmental role of universities in Africa. Using a mixed methods approach, she draws on the perspectives of students and graduates in two Tanzanian universities, one public and one private to explore broader role of universities. While the dominant realisation of the value of universities in Tanzania aims predominantly at economic competitiveness and opportunities, there are instances of concern about human development, especially from the participants' identification of valuable beings and doings, which involved both economic and social values. The study argues that universities are social institutions that ought to contribute to the public good to foster both economic and human development in broad ways, and that this is consistent with a decolonial vision. Universities should not be seen as commodities for profit generation, but as institutions that contribute to the needs of society.

Promoter: Prof MJ Walker

Co-Promoter: Dr P Mukwambo

MANASE, Ndakaitei

Thesis Title: NARRATIVES OF CAPABILITY FORMATION FOR STUDENTS WITH LEARNING DISABILITIES AT A SOUTH AFRICAN UNIVERSITY

Ndakaitei Manase was born in 1977 and grew up in Bocha Mutare, Zimbabwe. She attended school at Murehwa primary and Marange high school. Her tertiary education journey began at Mutare Polytechnic College, Zimbabwe where she obtained a Higher Diploma (Secretarial Studies). She later enrolled for a Postgraduate Diploma (HIV/AIDS Management) at Stellenbosch University, South Africa and graduated with a distinction in 2011. She proceeded to a Master of Philosophy (HIV/AIDS Management - Stellenbosch). In 2017, she obtained another master's degree in Sociology (Cum Laude) at the University of the Free State and in 2018, started her study for the Doctor of Philosophy.

With her thesis, titled: **NARRATIVES OF CAPABILITY FORMATION FOR STUDENTS WITH LEARNING DISABILITIES AT A SOUTH AFRICAN UNIVERSITY**, Ndakaitei Manase contributes original knowledge to the growing field of learning disabilities in higher education. The candidate analysed the narratives of students with learning disabilities, and interviewed lecturers and staff members at the UFS Centre for Teaching and Learning and the Disability Unit, as well as interrogating relevant policy documents to produce a rich account of students' learning experiences. The study identified a set of human capabilities or freedoms that includes the capability to demonstrate one's full potential, which can be enhanced by disability support. The study established that, while there are university arrangements that enhance students' capabilities, students with learning disabilities are also stigmatized through separate provision of support. The study thus recommends the institutionalisation of university spaces and all educational components should be designed to accommodate diversity and enable students with disabilities to achieve the educational and general life goals they value.



Promoter: Dr. P Del Monte

Co-Promoter: Dr P Mukwambo

Co-Promoter: Dr MJ Walker

MAZINGA, Martino Kamwano

Thesis Title: THE ROLE OF PUBLIC UNIVERSITIES IN FOSTERING GRADUATES' CAPABILITIES FOR RURAL DEVELOPMENT IN MALAWI

Martino Kamwano Mazinga was born on 23rd of November 1977 in Dowa District, Malawi. He did his secondary education at Mlale Minor Seminary. He attained a Diploma in Philosophy (Distinction), Bachelor of Arts in Philosophy (Magna Cum Laude) at St. Joseph's Institute in South Africa, before he studied for Masters of Arts in Literature at University of Malawi and Masters of Development Studies at the University of the Free State. Martino's professional career in humanitarian and livelihood programs with rural communities in Malawi has seen him rise to the ranks of National Director for the Catholic Development Commission – Caritas Malawi.

With his thesis, titled: **THE ROLE OF PUBLIC UNIVERSITIES IN FOSTERING GRADUATES' CAPABILITIES FOR RURAL DEVELOPMENT IN MALAWI**, the candidate contributes to scholarly knowledge on the broader topic of higher education and rural development. The candidate re-affirms the ongoing calls for universities' contextual relevance in graduate preparation. He argues that universities can foster graduates' capabilities for rural development through rural sensitive curricula and pedagogies that would stimulate or expand their agency and aspirations for rural poverty reduction. The candidate re-imagines a different kind of university that is oriented towards promoting human development in contexts of rurality and rural poverty. He proposes a multi-layered framework of graduate preparation that is contextually oriented, capability-based, and recognizes multiple conversion factors that influence graduate training. The candidate argues that graduate preparation ought to go beyond a focus on employability attributes and foster capabilities, agency and aspirations for rural social change.

Promoter: Dr M Höppener

Co-Promoter: Dr NN Mtawa

Co-Promoter: Prof MJ Walker

DOCTOR OF PHILOSOPHY WITH SPECIALISATION IN ECONOMICS

JORDAAN, Henine

Thesis Title: SMMES' ACCESS TO FINANCE FROM FORMAL LENDING INSTITUTIONS IN THE FREE STATE GOLDFIELDS



Schooled at Hoërskool Die Kruin and matriculating in 1989, Henine Jordaan has been a lecturer in Economics at the former Vista University and current Central University of Technology since 1995. She has a strong background in community service engagement in the Lejweleputswa District in collaboration with the Free State's Department of Basic Education. This passion to uplift disadvantaged communities has been a natural motivation for a PhD focusing on the access to finance of SMMEs in deeply rural South Africa. Henine is married and has three children, one of which who shares her love for Economics and completed his master's degree in 2020.

With her thesis, titled: **SMMES' ACCESS TO FINANCE FROM FORMAL LENDING INSTITUTIONS IN THE FREE STATE GOLDFIELDS**, she investigates the factors affecting the access to finance of SMMEs in the Matjhabeng municipal area through a mixed-methods research design. The results provide valuable insights into understanding not only the criteria banks use to assess the granting of loans to SMMEs in impoverished rural areas, but also the perspective of the SMMEs themselves regarding the challenges they face when dealing with banks. Although banks were found to be accommodating in their policies to grant credit, the nature and extent of their risk-aversion mindset evidenced in the lending process were found reduce the likelihood to award loans. Given that they have stringent regulatory and legislative requirements to adhere to, the study provides practical recommendations to both banks and the owners of SMMEs that can improve the likelihood of accessing credit for SMMEs in rural areas across South Africa.

Promoter: Dr J Coetzee

NDLOVU, Duduzile

Thesis Title: MONETARY AND FISCAL POLICY SPILLOVER AND COORDINATION IN THE SACU AREA

Duduzile Ndlovu was born on the 21st of November 1982 in Moscow. She matriculated at Matopo High in Zimbabwe in 2001 and attained a BSc Honours degree in Economics in 2005 at the University of Zimbabwe. She graduated with a BCom Honours in Applied Econometrics in 2008 and a Master of Commerce in Applied Econometrics in 2009 at the UFS. Her career began in 2009 as a lecturer at the Department of Economics at the UFS. In 2011, she was appointed as a researcher in the Faculty of Economic and Management Sciences, a position she holds to date. She is married to Mr Sindiso Ndlovu and has a son, Khanya.

With her thesis titled: **MONETARY AND FISCAL POLICY SPILLOVER AND COORDINATION IN THE SACU AREA**, the candidate contributes to the literature on economic and monetary integration, focusing on the Southern African Customs Union (SACU) region. By investigating the nature and degree of policy spillover effects and policy coordination across the SACU region, she explores the economic, monetary and fiscal policy case for the SACU region to become a fully-fledged monetary union. In her thesis she employed various econometric techniques to explore the degree of economic, monetary and fiscal integration and policy spillover. The study concludes that, while monetary policy spillovers and the spillover effects seen through testing the South African dominance hypothesis make a case for monetary integration and a monetary union, the lack of coordination between fiscal and monetary policy means that fiscal and monetary policy coordination first needs to improve before a move can be made towards full monetary integration.

Promoter: Prof P Burger



DOCTOR OF PHILOSOPHY WITH SPECIALISATION IN PUBLIC ADMINISTRATION AND MANAGEMENT

RAMPHOMA, Sefako Samuel

Thesis Title: SUPPLY CHAIN MANAGEMENT FOR SERVICE DELIVERY IN THE LEJWELEPUTSWA MUNICIPAL DISTRICT

Sefako Samuel Ramphoma was born in Kutlwanong on the 17th of October 1966. He received secondary education in Kutlwanong where he matriculated at Rearabetswe Secondary School in 1986. He obtained his Bachelor of Commerce Honours degree at Vista University (Welkom) in 2007 and his Master of Commerce degree at NWU (Vanderbijlpark) in 2012. He started his career as a teacher in Vredefort in 1990. In 2009 he was appointed as junior lecturer in the Department of Business Management at the Central University of Technology, Welkom campus, where he is presently a lecturer.

With his thesis, titled: **SUPPLY CHAIN MANAGEMENT FOR SERVICE DELIVERY IN THE LEJWELEPUTSWA MUNICIPAL DISTRICT**, the candidate makes a valuable contribution to the scholarship on supply chain management in local governments. With this contribution, he identifies the supply chain barriers that impede service delivery in local governments and presents a framework for how these barriers can be overcome. The exploratory qualitative research results of this investigation serve as an indication of the value this type of intervention holds for the attempt to find a solution to improved service delivery in local governments. The study concludes that barriers in the supply chain impede service delivery in local governments and that a framework for the management of the supply chain can overcome these barriers and therefore result in improved service delivery.

Promoter: Dr CJ Hendriks



DEAN |

PROF LC JITA

MASTER'S DEGREES

**MASTER OF EDUCATION
WITH SPECIALISATION IN
CURRICULUM STUDIES**

DUVENHAGE, Monique*

Dissertation Title: GRADE 8
AND 9 TOWNSHIP LEARNERS'
RESPONSE TO A PROBLEM-
BASED MATHEMATICS
EXTENSION PROGRAMME

Supervisor: Dr AE Stott

MAKURU, Bobojane Ezekiel

Dissertation Title: TEACHERS'
PERCEPTIONS ON THE
USE OF INFORMATION
AND COMMUNICATION
TECHNOLOGY FOR TEACHING
BIOLOGY IN LESOTHO

Supervisor: Dr T Jita

NCALA, Lucky Ernest

Dissertation Title: CASE
STUDIES OF INQUIRY-

BASED INSTRUCTION IN LIFE
SCIENCES CLASSROOMS OF
SELECTED HIGH SCHOOLS IN
STANDERTON

Supervisor: Dr M Tsakeni

Co-Supervisor: Dr T Jita

NYEMBE, Queenhy Rita Lamile

Dissertation Title: THE
CONTEXT-BASED APPROACH
IN TEACHING AND LEARNING
OF COMMON FRACTIONS IN
GRADE 7

Supervisor: Dr TJ Moloj

Co-Supervisor: Dr MS Mosia

SEGOOA, Mapule Yvonne

Dissertation Title: EXPLORING
TEACHERS' EXPERIENCES
OF TEACHING READING
IN FOUNDATION PHASE
CLASSROOMS

Supervisor: Dr MJ Ramabenyane

Co-Supervisor: Dr CD Martin

MASTER OF EDUCATION

**WITH SPECIALISATION IN
EDUCATION MANAGEMENT
AND LEADERSHIP**

NTSHANGASE, Mhlengi Innocent

Dissertation Title: EXPLORING
SCHOOL PRINCIPALS' LIVED
LEADERSHIP EXPERIENCES OF
CREATING HIGH PERFORMING
SCHOOLS IN A SOUTH AFRICAN
TOWNSHIP

Supervisor: Dr. SD Makhasane

**MASTER OF EDUCATION
WITH SPECIALISATION IN
PSYCHOLOGY OF EDUCATION**

LEBONA, Mathabo Joalene
Catherine

Dissertation title: ENHANCING
AN ENABLING ENVIRONMENT
FOR LEARNERS WITH SPECIAL
EDUCATIONAL NEEDS (LSEN)
IN RURAL PRIMARY SCHOOLS
IN LESOTHO

Supervisor: Dr. K. R. Mukuna

Co-supervisor: Dr. F. P. Khanare

DOCTORAL DEGREES

DOCTOR OF PHILOSOPHY WITH SPECIALISATION IN COMPARATIVE EDUCATION AND EDUCATION MANAGEMENT

MAIBI, Makhoali Elizabeth Kelello

Thesis Title: DEVELOPING A STRATEGY TO FACILITATE MULTIGENERATIONAL COLLABORATION OF TEACHERS TO IMPROVE THEIR COMMUNICATION SKILLS FOR TEACHING



Makohaoli Elizabeth Kelello Maibi was born in Matatiele in 1956. She matriculated at Mt Hargreaves High in 1974. She was awarded BA (Law) degree by Fort Hare University, BAED, BED, UED, Vista University, MED, RAU. She started her career at the Qwaqwa government as an assistant legal advisor and later at the Standard Bank of SA. She worked as a teacher at Tseki Senior secondary from 1982. In 1987 she got transferred to Makabelane Secondary School. In 1988 she was promoted as Head of Department at Seemahale Secondary School. In 1992 she was promoted as a Principal at Setjhaba se Maketse. She retired in 2016.

With her thesis, titled: **DEVELOPING A STRATEGY TO FACILITATE MULTIGENERATIONAL COLLABORATION OF TEACHERS TO IMPROVE THEIR COMMUNICATION SKILLS FOR TEACHING**, the candidate seeks to develop a strategy to facilitate multigenerational collaboration of teachers to improve their communication skills for teaching. The team identified the challenges inhibiting its effectiveness, explored how effective it was facilitated in other settings, identified conditions that ensured its effectiveness, highlighted threats and risks that have to be anticipated and resolved. To unpack the subject, the team used a myriad of methodologies informed by wide spectrum of theoretical perspectives. Conceptually the team interrogated the operational concepts of intergenerational and communication skills. Multiple case studies were used to generate data. Critical discourse was used to analyse data. The findings brought about the development of the strategy. A team was established to design a strategy and set goals from different perspectives, teachers were encouraged to share learning and pool their resources together. Through the use of intra-organisational resources, awareness training on communication competency was applied. Team teaching was used.

Promoter: Dr MR Qhosola

Co-Promoter: Prof MG Mahlomaholo

DOCTOR OF PHILOSOPHY WITH SPECIALISATION IN CURRICULUM STUDIES

MARAKE, 'Maphole Georgina

Thesis Title: MAPPING SCIENCE TEACHERS' KNOWLEDGE OF FORCE AND MOMENTUM TO CLASSROOM PRACTICES IN SELECTED SCHOOLS IN LESOTHO

'Maphole Marake was born in Lithabaneng Berea Lesotho on the 24th of October 1967. She completed a Cambridge Overseas Secondary Certificate (COSC) in 1987 and attained a Secondary Teachers' Certificate in 1990. She graduated with a BSecEd degree at the National University of Lesotho (NUL) in 2007 and completed a Master of Education-degree at the University of the Free State in 2013. Her career as a teacher started in 1991 and she rose through the ranks to become an inspector of physics in Lesotho post primary schools.

With her thesis, titled: **MAPPING SCIENCE TEACHERS' KNOWLEDGE OF FORCE AND MOMENTUM TO CLASSROOM PRACTICES IN SELECTED SCHOOLS IN LESOTHO**, the candidate contributes to the scholarship on science teachers'



knowledge and its relationship to classroom practice. Using a mixed-methods approach, Marake sampled 100 Grade-11 physical science teachers in five districts of Lesotho to investigate their knowledge base on specifically the science concepts of force and momentum. While the teachers appear to have adequate mastery of the content related to force and momentum, there was a mismatch between their knowledge and its expression in practice during teaching. The mismatch is partly attributed to the teachers' lack of and/or insufficient planning of lessons and lesson events. The study recommends the need to develop a system and culture of thorough planning of lessons by groups of teachers and anticipation of possible student responses, akin to what the Japanese do during Lesson Study.

Promoter: Prof LC Jita

Co-Promoter: Dr M Tsakeni

DOCTOR OF PHILOSOPHY WITH SPECIALISATION IN EARLY CHILDHOOD DEVELOPMENT AND LEARNING

MARAISANE, Mamontsuo Jacintha Lintle

Thesis Title: THE INFLUENCE OF LESOTHO GRADE R TEACHERS' SCIENCE CONTENT KNOWLEDGE ON THEIR CLASSROOM PRACTICES

Mamontsuo Lintle Maraisane was born on the 31st of January 1976 at Roma, Maseru, Lesotho. She obtained her Primary Teachers' Certificate in 1998 at the former National Teacher Training College currently called Lesotho College of Education whereby she works as a Head of Department in Early Childhood Development and Special Education. She was awarded a BEd (Pre-school and Foundation Phase) with distinction by the University of the Free State (UFS) in 2007. She attained an honours degree in Curriculum Studies in 2010 at the same university. The Faculty of Education awarded her the best performer in Master of Education Degree in Curriculum Studies in 2013.

With her thesis, titled: **THE INFLUENCE OF GRADE R TEACHERS' SCIENCE CONTENT KNOWLEDGE ON THEIR CLASSROOM PRACTICES**, the candidate contributes to scholarship in the early childhood education sector and science teaching by exploring how Grade-R teachers translate their science content knowledge into effective classroom practices. Using a mixed-methods approach, a survey of 100 Grade-R teachers' science content knowledge informed the selection of four teachers to be interviewed, observed and their lesson plans analysed for further insights on the relations between knowledge and classroom practice. The study found that teachers' science content knowledge was fragmented. While they had the expected common content knowledge, limited specialised content knowledge and adequate horizon content knowledge, their content knowledge generally had weak or no influence on classroom practices. The study recommends that teacher training institutions and Ministries of Education need to organise ECD programmes to enhance teachers' content knowledge to align with classroom practice.

Promoter: Prof LC Jita

Co-Promoter: Dr T Jita



DOCTOR OF PHILOSOPHY WITH SPECIALISATION IN HIGHER EDUCATION STUDIES

BOONZAAIER, Johannes Nicolaas

Thesis Title: QUALITY ASSURANCE OF POST SCHOOL MECHANICAL ENGINEERING EDUCATION AND TRAINING PROGRAMMES FOR ADULT LEARNERS

Johannes Nicolaas Boonzaaier was born in Springbok on the 18th of April 1965. He received his secondary education in Springbok, where he matriculated at the Namaqualand High School in 1983. He obtained the National Higher Diploma Mechanical Engineering in 1989, Higher Teachers Diploma in 1990, Engineers Competence Certificate in 1994, BA degree in 1999, Master's degree in 2003, and the PhD in Higher Education Studies in 2020 at the University of the Free State. He started his career as engineering student / trainee for certificated engineer in Cape Town in 1994. In 1985, he was appointed in the Engineering Department at Gold Fields and at present, he is Senior Engineering Training Specialist (Nuclear Power Generation) at Eskom Koeberg Nuclear Power Station.

With his thesis, titled: **QUALITY ASSURANCE OF POST SCHOOL MECHANICAL ENGINEERING EDUCATION AND TRAINING PROGRAMMES FOR ADULT LEARNERS**, the candidate investigated quality assurance in engineering education and training in both public and private TVET colleges in South Africa. Quality assurance in the current regulatory framework was analysed and contextualised to establish what is required and its impact on the operations of public and private providers. A mixed methods research approach was used to investigate the experience of public and private TVET with the current QA system in South Africa. The study concluded that there is a need for a centralised oversight body with a far more streamlined system, better stakeholder consultation, less political interference and with a deeper appreciation of the contributions both public and private TVET providers make to the education and training of learners in South Africa and of a standard commensurate with international standards.

Promoter: Prof FJ Nieuwenhuis

DOCTOR OF PHILOSOPHY WITH SPECIALISATION IN PHILOSOPHY AND POLICY STUDIES IN EDUCATION

INAL, Aydin

Thesis Title: THE MANIFESTATION OF FETHULLAH GÜLEN'S EDUCATIONAL PHILOSOPHY IN HORIZON EDUCATIONAL TRUST SCHOOLS IN SOUTH AFRICA

Aydin Inal was born in Turkey where he grew up and trained as a physics teacher. In 1998, he obtained a BScEd degree from the Middle East Technical University, Ankara and moved to South Africa. He received an MEd degree from the University of



Cape Town in 2002. In South Africa, he was part of a team that started an independent Horizon Education Trust school in 1999. He served as a teacher, deputy principal, and principal at this school. In 2009, he took up the executive director position at the Turquoise Harmony Institute in Johannesburg and currently serves as the institute's regional director in Cape Town.

With his thesis, titled: **THE MANIFESTATION OF FETHULLAH GÜLEN'S EDUCATIONAL PHILOSOPHY IN HORIZON EDUCATIONAL TRUST SCHOOLS IN SOUTH AFRICA**, the candidate subjectively (re)constructs an education philosophy constituting Islamic thought, openness, tolerance, and social activism. His cogent analysis of the extent to which Gülen's philosophy manifests in Horizon Educational Trust schools' policies and practices provides a rigorous interpretation of Islamic intellectualism. The study reveals that key themes constituting Gülen's philosophy can be traced in policy and practice, albeit in a haphazard manner. The candidate recommends that a well-articulated philosophy of education that foregrounds holistic education as a significant component would contribute towards a common understanding of Horizon Education Trust schools' aims and objectives. The candidate argues that a written policy on the interplay between guidance (*rehberlik*) and teaching by example (*temsil*) should be extended to include values embedded in African philosophy of education.

Promoter: Dr A Le Roux

Co-Promoter: Dr FJ Kruger



DEAN |

PROF GJ VAN ZYL

HEALTH SCIENCES EDUCATION

DOCTORAL DEGREES

DOCTOR OF PHILOSOPHY IN HEALTH PROFESSIONS EDUCATION

HAGEMEISTER, Dirk Thomas

Thesis Title: A FRAMEWORK FOR INTEGRATED EMERGENCY CARE EDUCATION IN SOUTH AFRICAN UNDERGRADUATE MEDICAL PROGRAMMES

Dirk Thomas Hagemeister is a German born and trained family physician. After obtaining a research-based MD in 1999 and serving in various functions in the German Armed Forces Medical Services, he joined his South African wife in her home country in 2005. In addition to his professional qualifications, which include diplomas in emergency care, sports medicine and HIV management, he holds a BA in Philosophy and History and master's degrees in public health and in bioethics. He is involved with academic training since 2008, with a focus on emergency training as BLS, PALS and ACLS instructor.

With his thesis, titled: **A FRAMEWORK FOR INTEGRATED EMERGENCY CARE EDUCATION IN SOUTH AFRICAN UNDERGRADUATE MEDICAL PROGRAMMES** the candidate explores the regulatory environment, the international scholarly body of knowledge and the current practice of undergraduate medical training in emergency care. Employing qualitative research methodology, in-depth interviews with key informants at South African medical schools are complemented by nominal group technique research with graduates from one of the programmes. Themes and categories derived from these empirical parts are compiled into a framework. This framework tries to illustrate the complex relationship between the three constituents of high-standard clinical practice, up-to-date educational practice and institutional culture. While thematically rooted in the specific topic of emergency care training, through improved understanding of the factors influencing the teaching practice, such a framework might also contribute to the improved teaching of other inter-disciplinary, longitudinal themes in undergraduate medical education.

Promoter: Prof MJ Labuschagne

VAN WYK, Riaan

Thesis Title: THE ROLE OF A SUSTAINABLE INTEGRATED SYSTEMS APPROACH TO HIGH-TECHNOLOGY CLINICAL SIMULATION IN SOUTH AFRICA



Riaan van Wyk was born on the 6th of April 1977 and matriculated at Jim Fouche High School (Bloemfontein) in 1995. He obtained a BComm (IT) degree at the University of the Free State in 2000 and joined the private sector as IT Systems engineer. His involvement in tertiary education began in 2012 as technical expert at the Clinical Simulation and Skills Unit at the University of the Free State. He obtained his Postgraduate diploma in Health Professions Education in 2014 and a Master's degree in Health Professions Education in 2016.

With his thesis, titled: **THE ROLE OF A SUSTAINABLE INTEGRATED SYSTEMS APPROACH TO HIGH-TECHNOLOGY CLINICAL SIMULATION IN SOUTH AFRICA**, the candidate contributes to scholarship in clinical simulation. Using a multi-method approach, data were collected from simulation facilities at South African public, accredited health professions training institutions. Data gathering covered six operational subsystems, namely management, funding, staffing, physical environment, curriculum integration and research. This information was used to identify challenges experienced by the facilities in high-technology simulation activities in these operational subsystems. A Delphi questionnaire was developed to reach consensus amongst simulation experts on approaches to alleviate the various identified challenges. Using the results of the Delphi questionnaire, recommendations and guidelines were developed not only to address the challenges but also to illustrate how the different subsystems influence each other. Although the focus is on high-technology simulation, the majority of recommendations and guidelines will be applicable to all simulation activities.

Promoter: Prof MJ Labuschagne

Co-Promoter: Prof G Joubert

SCHOOL OF BIOMEDICAL SCIENCES

MASTER OF MEDICAL SCIENCE WITH SPECIALISATION IN ANATOMY AND CELL MORPHOLOGY

SMAL, Sunette Amanda

Dissertation Title: ASSESSING
THE SEXUAL DIMORPHISM OF
THE UPPER LIMB IN A FREE
STATE SKELETAL POPULATION
USING UNIVARIATE
MEASUREMENTS

Supervisor: Dr P Maass

Co-Supervisor: Dr H Potgieter

SCHOOL OF HEALTH AND REHABILITATION SCIENCES

MASTER'S DEGREES

MASTER OF OCCUPATIONAL THERAPY

JANSE VAN RENSBURG, Elana

Dissertation Title: DESCRIBING
THE PERFORMANCE OF FIVE-
YEAR-OLD CHILDREN ON 11
SUBTESTS OF THE REVISED
CLINICAL OBSERVATIONS BY
SAISI

Supervisor: Mrs E Janse van
Rensburg

Co-Supervisor: Mrs C Potgieter

MASTER OF OPTOMETRY

FRASER, Johanna Antoinette

Dissertation Title: USE OF
DIAGNOSTIC TECHNIQUES
BY PRIVATE PRACTISING
OPTOMETRISTS IN SOUTH
AFRICA

Supervisor: Mr N Naicker

Co-Supervisor: Prof TA
Rasengane

VAN VUUREN, Chandré

Dissertation Title:
PERILIMBAL CONJUNCTIVAL
PIGMENTATION AND ITS
ASSOCIATION WITH VERNAL



KERATOCONJUNCTIVITIS IN
CHILDREN FROM THE WEST
RAND

Supervisor: Dr E Kempen

**MASTER OF SCIENCE IN
DIETETICS**

GREYVENSTEYN, Desiré

Dissertation Title:
NUTRIGENOMICS:
PERCEPTIONS OF SOUTH
AFRICAN DIETITIANS AND
GENERAL PRACTITIONERS

Supervisor: Ms EM Jordaan

Co-Supervisor: Prof CM Walsh

HENNOP, Imke

Dissertation Title: KNOWLEDGE,
ATTITUDES AND PRACTICES
OF HEALTHCARE WORKERS
RELATED TO BREASTFEEDING
IN THE MOTHEO DISTRICT,
FREE STATE

Supervisor: Prof CM Walsh

DOCTORAL DEGREES

DOCTOR OF PHILOSOPHY IN DIETETICS

JORDAAN, Elizabeth Margaretha

Thesis Title: DEVELOPMENT OF A NUTRITION SCREENING TOOL FOR THE PREDICTION OF BIRTH OUTCOMES OF WOMEN ATTENDING THE ANTENATAL CLINIC AT PELONOMI HOSPITAL

Marizeth Jordaan was born in Bloemfontein on the 17th of September 1988. She received her secondary education at Eunice High School where she matriculated in 2006. She obtained the degree in BSc in Dietetics (2010) as well as MSc in Dietetics (2015) at the University of the Free State. She started her career as a Community Service Dietitian at the Motheo District Office, Bloemfontein (2011) after which she was appointed as a junior lecturer in the Department of Nutrition and Dietetics, University of the Free State in 2012. Currently, she is a lecturer in the Department of Nutrition and Dietetics.

With her thesis, titled: **DEVELOPMENT OF A NUTRITION SCREENING TOOL FOR THE PREDICTION OF BIRTH OUTCOMES OF WOMEN ATTENDING THE ANTENATAL CLINIC AT PELONOMI HOSPITAL**, the candidate makes a meaningful contribution to understanding factors that are associated with poor birth outcomes, including premature birth, stunting and wasting at birth. A total of 682 pregnant women attending the antenatal clinic at Pelonomi Hospital were included at baseline and 331 mothers with their 347 babies were included in the follow-up phase of this study. Based on the variables identified as independent predictors of overall birth outcomes, the candidate developed an 8-item nutrition-related screening tool to detect those pregnant women who are at risk of poor birth outcomes. The screening tool can assist nursing staff to identify high risk pregnancies and to refer at an early stage, when nutrition intervention can still positively impact on birth outcomes.

Promoter: Prof CM Walsh

Co-Promoter: Prof G Joubert



ROBB, Liska

Thesis Title: A RISK ASSESSMENT PROFILE AND DIET QUALITY INDEX FOR INADEQUATE CHOLINE INTAKE IN PREGNANT WOMEN IN BLOEMFONTEIN, SOUTH AFRICA

Liska Robb was born in Bloemfontein, South Africa on the 16th of May 1987. She received her secondary education at Jim Fouché Secondary School, Bloemfontein, where she matriculated in 2005. She obtained the degree BSc Dietetics (2009) and MSc Dietetics (2013) at the University of the Free State (UFS). She started her career in 2010 as a community service dietitian at Botshabelo District Hospital. In 2011, she joined the Department of Nutrition and Dietetics at the UFS as a part-time junior lecturer and is currently a full-time lecturer in this department.

With her thesis, titled: **A RISK ASSESSMENT PROFILE AND DIET QUALITY INDEX FOR INADEQUATE CHOLINE INTAKE IN PREGNANT WOMEN IN BLOEMFONTEIN, SOUTH AFRICA**, the candidate makes a meaningful contribution to understanding choline intake in pregnant women. Adequate choline intake and optimal diet quality play a critical role in normal development of the foetus and the short- and long-term health of the offspring. Dietary intake (including intake of the nutrient choline), anthropometry, medical history and household food security were determined in a sample of 682 pregnant women attending the antenatal clinic at Pelonomi Regional Hospital. Factors that could affect choline intake in this population were identified. In addition, a diet quality index, with a focus on choline-rich foods, was developed for use in pregnant women in South Africa.

Promoter: Prof CM Walsh

Co-Promoter: Prof G Joubert

DOCTOR OF PHILOSOPHY DOCTOR IN HUMAN MOVEMENT SCIENCE

DEACON, Lizl

Thesis Title: EFFECT OF SHORT-TERM MACRONUTRIENT MANIPULATION ON ENDURANCE CAPACITY OF LONG-DISTANCE RUNNERS

Lizl Deacon was born in Bloemfontein on the 14th of November 1985. She received her secondary education in Bloemfontein where she matriculated at Secondary School Sand du Plessis in 2003. She obtained her Baccalareus degree in Human Movement Science (2006), followed by a B.A. Hons in Human Movement Science (Biokinetics) in 2007 and M.A. in Human Movement Science (Biokinetics) in 2011 at the University of the Free State. She started her career as a Biokineticist at the South African National Defence Force in 2009. In 2021, she started her Data Management career at the internationally acclaimed clinical research company, Iqvia.



With her thesis, titled: **EFFECT OF SHORT-TERM MACRONUTRIENT MANIPULATION ON ENDURANCE CAPACITY OF LONG-DISTANCE RUNNERS**, the candidate contributes to a topic that has received extensive attention and highlights the significance to investigate this issue as an individual approach rather than an over-generalised assumption. She addresses the importance to shift focus to a more modern-day dietary approach to improve endurance performance and highlights the need for further studies to provide more proof on the superiority of either a high-fat or high-carbohydrate diet for endurance performance improvement. The necessity for individual practicality of current and future recommendations and strategies demands recognition and the consequence of an individualised dietary approach prior to endurance events should only be implemented after trial and error practices. She encourages endurance athletes to apply dietary strategies within the framework of their training setting, body composition and physiological needs, and attend to their nutritional requirements to ensure good health, encourage optimal performance, and decrease the likelihood of burn-out and, consequently, injuries.

Promoter: Prof FF Coetzee and Prof B Coetzee

Co-Promoter: Dr WC du Toit

DU PLESSIS, Aletta Margaretha

Thesis Title: DEVELOPMENTAL COORDINATION DISORDER (DCD) IN CHILDREN: ASSESSMENT, IDENTIFICATION AND INTERVENTION

Alretha du Plessis was born in Bloemfontein on the 25th of February 1987. She matriculated in Johannesburg at Hoërskool President in 2005. She received a B.A degree in Human Movement Sciences at the North-West University in 2008 and a Post Graduate Certificate in Education in 2009. She furthered her studies at the University of the Free State and obtained a B.A Honours degree in Human Movement Sciences in 2010 and a Master's degree in Human Movement Sciences specialising in Kinderkinetics in 2013. Her tertiary education career started in 2011 until 2013 at the University of the Free State and later continued at the North-West University in 2019.

With her thesis, titled: **DEVELOPMENTAL COORDINATION DISORDER (DCD) IN CHILDREN: ASSESSMENT, IDENTIFICATION AND INTERVENTION**, the candidate contributes to the field of Kinderkinetics and children in low socio-economic environments. Results are provided on the prevalence of possible DCD in the Mangaung District's low socio-economic environments, leading to an increased awareness to ensure earlier intervention for children experiencing motor difficulties. Furthermore, the study determined whether teachers could identify children with DCD and highlighted the importance of identifying an appropriate screening tool for teachers to use for early identification. The candidate's literature review was used to develop an e-Delphi survey that provided insights from experts in the field of Kinderkinetics on important components to include in a motor intervention framework for children with DCD. A motor intervention framework was developed as the starting point to assist children with DCD, specifically in the field of Kinderkinetics. Two articles have been accepted for publication in accredited journals.

Promoter: Dr M de Milander

Co-Promoter: Prof FF Coetzee



WASSENAAR, Amelia Salomie

Thesis Title: ASTROTOURISM AS AN INCOME-GENERATING OPPORTUNITY IN SOUTH AFRICAN NATIONAL PARKS

Amélia Wassenaar was born in Bethal on the 7th of November 1984. She completed her secondary education in Standerton. She obtained a B.A. Human Movement Science degree with distinction at the University of the Free State (2006), B.A. Hons in Human Movement Science (Recreation and Tourism) with distinction at the University of the Free State (2007) and M.Phil Wildlife Management at the University of Pretoria (2012). At present she is pursuing a corporate career in the marketing department of Afrivet.

With her thesis, titled: **ASTROTOURISM AS AN INCOME-GENERATING OPPORTUNITY IN SOUTH AFRICAN NATIONAL PARKS** the candidate makes a contribution in a little-known research area. The potential role of astrotourism activities in the diversification of experiential offerings within South African National Parks is explored. Findings indicated an increased consciousness among tourists related to the environmental impact of their recreational behaviour, as well as a preference for tourist activities with a low environmental impact. The investigation contributes to knowledge relating to astrotourism and its potential to be developed in a responsible manner as a low environmental impact activity within South African National Parks. The development of such tourist activities may serve to generate an income for conservation through value-adding experiences while contributing to employment and economic growth in the destinations chosen. The candidate has achieved a local and global reach with the study culminating in the development of the Four-Component Operational Astrotourism Model. This approach provides comprehensive practical input to implement astrotourism activities.

Promoter: Dr BA Coetzee

<p>SCHOOL OF CLINICAL MEDICINE</p> <p>MASTER OF MEDICAL SCIENCE WITH SPECIALISATION IN MEDICAL PHYSICS</p> <p>VAN DER WALT, Hester Catharina</p> <p>Dissertation Title: DEVELOPMENT OF A BRACHYTHERAPY TREATMENT PLANNING MODULE FOR</p>	<p>CERVIX CANCER UTILISING BIOLOGICAL DOSE METRICS</p> <p>Supervisor: Dr W Shaw</p> <p>MASTER OF MEDICINE IN ANAESTHESIOLOGY</p> <p>DU PLESSIS, Nadia Sarah</p> <p>MASTER OF MEDICINE IN FAMILY MEDICINE</p> <p>PETER, Paul Ifeanyi</p>	<p>MASTER OF MEDICINE IN INTERNAL MEDICINE</p> <p>MAKAN, Rahm</p> <p>MASTER OF MEDICINE IN ORTHOPAEDIC SURGERY</p> <p>ERASMUS, Lourens Jacobus HARTZENBERG, Ferdinand</p> <p>MASTER OF MEDICINE IN UROLOGY</p> <p>DAHMS, Willem</p>
--	--	--



SCHOOL OF NURSING

MASTER'S DEGREES

MASTER OF NURSING

HUMAN, Charne Eloise*

Dissertation Title:
COMPETENCIES FOR
MIDWIFERY ULTRASOUND
EDUCATION AND PRACTICE IN
SOUTH AFRICA

Supervisor: Dr C Spies

Co-Supervisor: Dr EE Bekker

JORDAAN, Hanlie

Dissertation Title:
DEVELOPMENT OF AN
INSTRUMENT TO MEASURE
THE CLINICAL LEARNING
ENVIRONMENT IN HEALTH
SCIENCES

Supervisor: Dr L Hugo-van Dyk

KAPP, Jacinta Maria

Dissertation Title: CHALLENGES
FACING NURSE EDUCATORS
IN THE IMPLEMENTATION OF
HIGH FIDELITY SIMULATION AT
A PUBLIC NURSING COLLEGE

Supervisor: Mrs AC Jacobs

MARAIS, Cecelia*

Dissertation Title: LEARNING
NEEDS OF CAREGIVERS
OF OLDER PERSONS IN
RESIDENTIAL CARE FACILITIES:
AN EXPLORATIVE CASE STUDY

Supervisor: Dr DE van Jaarsveldt

Co-Supervisor: Dr C Spies

MOFOKENG, Mita Sarah

Dissertation Title: HEALTH
LITERACY OF SESOTHO-
SPEAKING PATIENTS
DIAGNOSED WITH CHRONIC
CONDITIONS: SETSOTO, FREE
STATE PROVINCE

Supervisor: Prof M Reid

Co-Supervisor: Dr M Pienaar

NTSUPA, Mamokete Anna

Dissertation Title: EXPLORING
REGISTERED NURSES'
COMPLIANCE TO STANDARDS
FOR MEDICAL MALE
CIRCUMCISION

Supervisor: Mrs MR Mpele

Co-Supervisor: Dr L Hugo-van
Dyk

VAN RENSBURG, Elsabet*

Dissertation Title: HEALTH
LITERACY OF SESOTHO-
SPEAKING PATIENTS WITH

ENDSTAGE RENAL DISEASE IN
THE FREE STATE PROVINCE

Supervisor: Prof M Reid

Co-Supervisor: Dr M Pienaar

MASTER OF SOCIAL SCIENCE IN NURSING

MOFOKENG, Ntoki Anna

Dissertation Title: ENHANCING
THE THERAPEUTIC ROLE OF
REGISTERED NURSES IN A
CARE-AND-REHABILITATION
FACILITY

Supervisor: Dr R Jansen



SCHOOL OF PATHOLOGY

DOCTORAL DEGREES

DOCTOR OF PHILOSOPHY WITH SPECIALISATION IN VIROLOGY

BARAKZAI, Iqra Aziz

Thesis Title: DRUG RESISTANCE MUTATIONS IN NEWLY DIAGNOSED HIV-INFECTED INFANTS AND IN CHILDREN AND ADOLESCENTS WITH VIROLOGICAL FAILURE ON ART

Iqra Barakzai was born on the 14th of April 1989 in Pakistan. She matriculated at Ladybrand High School in 2006. She attained a Bachelor of Science degree in Medical Microbiology at the University of the Free State in 2011. She graduated with a Bachelor of Science Honours in Medical Microbiology with distinction from the University of Pretoria in 2012 and a Master of Science in Medical Microbiology in 2016. She is currently employed as a Medical Scientist at the National Health Laboratory Service in Bloemfontein.

With her thesis, titled: **DRUG RESISTANCE MUTATIONS IN NEWLY DIAGNOSED HIV-INFECTED INFANTS AND IN CHILDREN AND ADOLESCENTS WITH VIROLOGICAL FAILURE ON ART**, the candidate investigated HIV drug resistance in paediatric patients in central South Africa. The study identified increasing levels of pre-treatment drug resistance in newly diagnosed HIV-infected infants, however, protease inhibitor resistance remained rare. The findings confirmed the continued efficacy of recommended antiretroviral regimens for initiating treatment and the utility of dried blood spot samples for surveillance activities. The prevalence of HIV drug resistance in children and adolescents failing antiretroviral treatment was also shown to be increasing, impacting negatively on current and future treatment options for these patients. These findings highlight the importance of access to HIV drug resistance testing both at an individual and programmatic level.

Promoter: Prof D Goedhals

DEAN'S MEDALS

AWARDED TO A STUDENT WHO ACHIEVED THE BEST RESULTS IN RESPECT OF A MASTER'S DEGREE IN THE FACULTY OF HEALTH SCIENCES

Sebotsana Paula Rasebotsa

(Master of Medical Science with specialisation in Virology)

Cecilia Marais

(Master of Nursing)



DEAN |
PROF H HUDSON

MASTER'S DEGREES

MASTER OF ARTS IN GOVERNANCE AND POLITICAL TRANSFORMATION

ADEBIYI, Peace Ibukunoluwa
ALLI, Asief
MATSOELE, Emmanuel
MELOE, Matake Kenalemang

MASTER OF ARTS WITH SPECIALISATION IN AFRIKAANS AND DUTCH

KEMP, Charné
SCHALL, Robert*
VORSTER, Adele

MASTER OF ARTS WITH SPECIALISATION IN GENDER STUDIES

MKANDAWIRE, Edfas Paul*

MASTER OF ARTS WITH SPECIALISATION IN LANGUAGE PRACTICE

WILCOCK, Beverley

Dissertation Title: THE FRAMING AND REFRAMING OF SPORTS NEWS THROUGH TRANSLATION IN A CONVERGED MEDIA ORGANISATION

Supervisor: Dr M van Rooyen

MASTER OF ARTS WITH SPECIALISATION IN POLITICAL SCIENCE

DE KLERK, René

Dissertation title: LIBERAL DEMOCRACY IN SUB-SAHARAN AFRICA: A SOCIAL AND POLITICAL ANALYSIS OF CONSTITUTIONAL LIBERALISM WITH APPLICATION TO SENEGAL, BOTSWANA AND MAURITIUS

Supervisor: Prof H Solomon

MASTER OF ARTS WITH SPECIALISATION IN SESOTHO

MAKHALEMELE, Mahlomola Paulos

Dissertation Title: ANALYSIS AND INTERPRETATION OF HUMOUR IN JJ MOILOA'S LITERARY WORKS

Supervisor: Dr EN Malete

MOSIA, Tseko Isaac

Dissertation Title: PATRIARCHAL EXPRESSIONS IN MODERN SESOTHO NOVELS: A FEMINIST PERSPECTIVE

Supervisor: Mr BD Letlala

Co-Supervisor: Dr EN Malete

MASTER OF ARTS WITH SPECIALISATION IN SOCIOLOGY

LAURIE, Nada

Dissertation Title: SOCIALLY CONSTRUCTED DEATH RITUALS AND DECISION-MAKING REGARDING DISPOSAL AFTER DEATH

Supervisor: Dr K de Wet

Co-supervisor: Dr N Redelinghuys

MASTER OF PSYCHOLOGY

MONAKEDI, Lesiba Sydney

Dissertation Title: PERSPECTIVES ON FAMILY RESILIENCE IN THE FACE OF UNEMPLOYMENT

Supervisor: Dr L Nel

MASTER OF SOCIAL SCIENCE IN CLINICAL PSYCHOLOGY

MOKWALA, Mmamothibedi Precious

ZWANE, Thembelihle Fortunate

MASTER OF SOCIAL SCIENCE WITH SPECIALISATION IN SOCIOLOGY

COETZEE, Jano

Dissertation Title: EXPLORING ADDICTION EXPERIENCES THROUGH A SOCIOLOGICAL LENS

Supervisor: Prof Katinka de Wet

MASTERS OF SOCIAL SCIENCE IN COUNSELLING PSYCHOLOGY

BOTHA, Theo Erns*



DOCTORAL DEGREES

DOCTOR OF PHILOSOPHY IN MUSIC

DAVEL, Irma

Thesis Title: THE UNIFYING EFFECT OF MUSIC IN A COMMUNITY - A CASE STUDY OF THE LADY GREY PASSION PLAY

Irma Davel was born in Theunissen on the 27th of March 1957. She received her secondary education in Theunissen where she matriculated at the Piet Crowther High School in 1975. She obtained the degree BA Mus in 1981, Hons in 1981, the degree M Mus in 2003 and the PhD in Music in 2021 at the University of the Free State. She started her career as a music educator in Pretoria in 1980. In 2009 she was appointed in the Department of Education, and at present, she is a music educator at the High School Burgersdorp.

With her thesis, titled: **THE UNIFYING EFFECT OF MUSIC IN A COMMUNITY – A CASE STUDY OF THE LADY GREY PASSION PLAY**, the candidate focuses on the extent to which music, as an integrated part of a community project, can be instrumental in building bridges in a diverse community. With this research into the unifying effect of music, she augments current scholarship regarding the degree to which positive social transformation may be effected through the hosting of an annual community project – in this case, the Lady Grey Passion Play. Using a qualitative method approach, conducting semi-structured interviews and observation as data collection methods, the study corroborates and reinforces the argument that selectively including music in community projects can contribute to inculcating positive change regarding mutual respect, reciprocity, group forming, cohesiveness and positive energy, thereby lessening potential conflict in a heterogeneous community.

Promoter: Dr F De Villiers

Co-Promoter: Prof RBI Beukes (posthumously)

SCOTT, Douglas Walter

Thesis Title: A RADICAL CONSTRUCTIVIST APPLICATION OF ZIPF'S LAW TO MUSIC AS A SEMIOTIC THEORY OF COGNITION

Douglas Scott's research focuses on the intersection of the emotional, conceptual, practical and creative aspects of music. Because of the diverse nature of the integrations he seeks between disciplines, he draws from a wide range of influences,



including mathematics, semiotics and gesture theory. His investigations are heavily influenced by his practical experience as a performer and teacher of the flute, voice, piano and ukelele, as well as his forays into stage acting and directing. He is also an active composer whose works have been performed on four continents and was until recently the chairman of the arts advocacy organisation NewMusicSA.

With his thesis, titled: **A RADICAL CONSTRUCTIVIST APPLICATION OF ZIPF'S LAW TO MUSIC AS A SEMIOTIC THEORY OF COGNITION**, the candidate contributes to cognitive music theory exploring the use of a statistical device that can allow insights from music analysis to inform our understanding of the mind. Building on the work of Charles Sanders Peirce, he proposes a semiotic theory (the semiotic eigencycle) that connects the human capacity for signification with the notion of a harmony of ideas that flows continuously between states of concord and discord. The significance of such a tool is that it allows acts of music making to serve as constructive models of cognition. This affords the analyst a means to study the relationship between structures inherent in musical surfaces and their effect on structures produced by behaviour and perception with a tool that represents a precisely defined and falsifiable cognitive-theoretical account of the mind.

Promoter: Dr MJ Wium

Co-Promoter: Dr E Huovinen

DOCTOR OF PHILOSOPHY WITH SPECIALISATION IN HEBREW

SCHEUMANN, Jesse Roy

Thesis Title: A SYNTACTIC ANALYSIS OF PHRASAL COORDINATION IN BIBLICAL HEBREW

Jesse Scheumann was born in Illinois, USA on 1 October 1989. He received his secondary education in Minnesota, USA, where he matriculated from a home school programme. He obtained the BA in Biblical and Theological Studies with distinction in 2010 from University of Northwestern-St. Paul, the MDiv with distinction in 2014 and the ThM with distinction in 2015 from Bethlehem College and Seminary, and the MA in Linguistics with distinction in 2017 from the University of Minnesota. He currently lectures Hebrew as an assistant professor at Sattler College in Boston, Massachusetts.

With his thesis, titled: **A SYNTACTIC ANALYSIS OF PHRASAL COORDINATION IN BIBLICAL HEBREW**, the candidate contributes to the linguistic study of Biblical Hebrew by comprehensively analysing 2,714 occurrences of the conjunction “and” in the Pentateuch. While previous studies have proposed multiple meanings and special uses of the conjunction, this study shows how a single use as a coordinating conjunction can explain the full distribution of data. The candidate demonstrates that coordination always creates a semantically richer constituent, that patterns of repetition (or non-repetition) of the conjunction



indicate whether items in a list form sub-groups, and that word order signals whether or not ellipsis has occurred. Coordination thus has important implications for biblical interpretation. This study illustrates the importance of integrating several modes of analysis within complexity thinking for a comprehensive understanding of coordination when studying Biblical Hebrew. Major insights of the research were presented at an international conference in December 2020.

Promoter: Prof JA Naudé

Co-Promoter: Prof CL Miller-Naudé

DEAN'S MEDAL

AWARDED TO A STUDENT WHO ACHIEVED THE BEST RESULTS IN RESPECT OF A MASTER'S DEGREE IN THE FACULTY OF THE HUMANITIES

Lyrene Kühn-Botma

(Master of Arts in Fine Arts)

DEAN |
PROF JC MUBANGIZI

MASTER'S DEGREES

MASTER OF HUMAN RIGHTS

MOKEMANE, Tsie Sydwel
MOSELI, Khothalang
NDOU, Thendo Miydoh
NESENGANI DAVHANA, Nduvho
SEATE, Ofentse

MASTER OF LAWS

THAISI, Kamogelo Arthur

MASTER OF LAWS WITH SPECIALISATION IN CONSTITUTIONAL LAW AND PHILOSOPHY OF LAW

MILNES, Nikki

Dissertation Title: RATIONALE
AND RATIONALITY OF SOUTH
AFRICAN ICC WITHDRAWAL:
ANALYSIS, CRITIQUE AND THE
WAY FORWARD

Supervisor: Prof CF Swanepoel

VAN DYK, Obakeng Terence*

Dissertation Title: THE
INFLUENCE OF THE
OUDEKRAAL AND *KIRLAND*

DECISIONS ON THE LEGAL
STATUS OF AN INVALID
ADMINISTRATIVE ACTION

Supervisor: Dr A Du Plessis

MASTER OF LAWS WITH SPECIALISATION IN CRIMINAL LAW

DE KOCK, Roselle

Dissertation Title: THE
PREVENTION OF STATE
CAPTURE IN SOUTH AFRICA
WITH PARTICULAR REFERENCE
TO CONSTITUTIONAL
GUIDELINES

Supervisor: Prof CF Swanepoel

MASTER OF LAWS WITH SPECIALISATION IN ENVIRONMENTAL LAW

KHALANYANE, Thatohatsi Eileen

MASTER OF LAWS WITH SPECIALISATION IN FINANCIAL PLANNING LAW

ADAM, Luqman Achmat
MOLELEKWA, Walter Gaopalelwe
ODENDAAL, Pietro*

MASTER OF LAWS WITH SPECIALISATION IN LABOUR LAW

KHUELE, Matsitso Leomile
RAMOSHEBI, Motlohi Tshediso
Samuel
ZUNGU, Nqobile Angel

MASTER OF LAWS WITH SPECIALISATION IN LAW OF BUSINESS ENTITIES

MOLAPO, Lihaelo Bridgett
PROUSALOGLOU, Yolandi

MASTER OF LAWS WITH SPECIALISATION IN PRIVATE LAW

MOKABA, Reneilwe Rinny
MORIE, Tshepo Cheryl-Lee
VAN DEN BERG, Chris-Meri*



DEAN |
PROF PD VERMEULEN
AGRICULTURAL SCIENCES

MASTER'S DEGREES

MASTER OF SCIENCE IN AGRICULTURE MAJORING IN AGROMETEOROLOGY

RAVULUMA, Muthianzhele

Dissertation Title: PERFORMANCE OF MAIZE-BEAN CROPPING SYSTEMS IN HOMESTEAD GARDENS IN THABA NCHU, SOUTH AFRICA

Supervisor: Dr WA Tesfuhoney
Co-Supervisor: Dr ZA. Bello

MASTER OF SCIENCE IN AGRICULTURE MAJORING IN GRASSLAND SCIENCE

STEHN, Imke Jutta*

Dissertation Title: AN ECOLOGICAL STUDY OF TARCHONANTHUS CAMPHORATUS L. IN THE NORTHERN CAPE PROVINCE OF SOUTH AFRICA

Supervisor: Prof GN Smit

MASTER OF SCIENCE IN AGRICULTURE MAJORING IN PLANT BREEDING

MEYER, Carmen

Dissertation Title: POPULATION GENETIC STRUCTURE OF SCLEROTINIA SCLEROTIUM IN SOUTH AFRICA

Supervisor: Dr A Minnaar-Ontong

MASTER OF SCIENCE IN AGRICULTURE MAJORING IN PLANT PATHOLOGY

SEMU, Eunica

Dissertation Title: EVALUATION OF RHIZOBACTERIAL MIXTURES FROM COWPEA FOR POTENTIAL APPLICATION AS BIOFERTILISERS AND BIOPESTICIDES

Supervisor: Prof WJ Swart

Co-Supervisor: Dr M Nyoni

MASTER OF SCIENCE MAJORING IN AGRICULTURAL ECONOMICS

NETSHIFHEFHE, Khwathiso*

Dissertation Title: WATER FOOTPRINT AND ECONOMIC FEASIBILITY ASSESSMENT OF PRODUCING BIODIESEL FROM SUNFLOWER IN SOUTH AFRICA

Supervisor: Prof H Jordaan

MASTER OF SCIENCE MAJORING IN WILDLIFE

SCHEIJEN, Ciska Petronella Johanna*

Dissertation Title: SEX- AND STRESS HORMONES AND RELATED BEHAVIOUR IN GIRAFFES (GIRAFFA CAMELOPARDALIS) ON A PRIVATE GAME RESERVE IN SOUTH AFRICA

Supervisor: Dr F Deacon

MASTER OF SUSTAINABLE AGRICULTURE

MANGALISO, Siyabonga

DOCTORAL DEGREES

DOCTOR OF PHILOSOPHY MAJORING IN ANIMAL BREEDING

MDYOGOLO, Sinebongo

Thesis Title: DETECTION OF SELECTION SIGNATURES AND GENES ASSOCIATED WITH FITNESS IN SOUTH AFRICAN AFRIKANER AND BRAHMAN CATTLE



Sinebongo Mdyogolo was born on the 6th of June 1989 at Machibini village outside Queenstown. She received her secondary education at Hexagon High School in Queenstown, where she matriculated in 2006. She obtained the degree Bachelor of Science in 2011, Honours Degree (Genetics) in 2012, Master's Degree (Genetics) in 2015 and a PhD (Animal Breeding and Genetics) in 2021 at the University of the Free State. Part of the research for her PhD was conducted in the United States of America at Iowa State University under the supervision of Professor Emeritus, Max. F Rothschild.

With her thesis, titled: **DETECTION OF SELECTION SIGNATURES AND GENES ASSOCIATED WITH FITNESS IN SOUTH AFRICAN AFRIKANER AND BRAHMAN CATTLE**, the candidate makes a valuable contribution to the South African livestock industry. The research first focused on methods that might be used to increase the density of genotypic data cost effectively by ways of genotype imputing and salvaging unusable genotypes. This high-density single nucleotide polymorphism (SNP) data was then used to detect the underlying genetic factors that may be associated with adaptation and fitness in the South African Afrikaner and Brahman cattle breeds as well as the biological pathways that may be associated with adaptation to the harsh environmental conditions. Results indicated that while selection pressure in the Brahman was focused on production, fertility and adaptation the focus in the Afrikaner was on fertility and adaptation. This is an indication that the Afrikaner is kept under a harsher production environment.

Promoter: Prof FWC Neser

Promoter: Prof ML Makgahlela

Co-Promotor: Dr MD MacNeil

Co-Promoter: Prof MM Scholtz

<p>BUILDING SCIENCES</p>	<p>MOTLAMELLE, Lebitso NAUDE, Nerina Beryl OOSTHUIZEN, Daniella Jocelyn RORICH, Nicoll SMITH, Colin Wilsnach STEWART, Shane Vernon VAN DER MERWE, Suzani* VAN DER WATT, Jaco* VANOS, Danielle VOLLMER, Nicola Andrea*</p>	<p>Dissertation Title: EXTRAPOLATING THE UNSEEN: ABOVE, BELOW AND BEYOND THE SURFACE OF THE PAGES OF MY SKETCHBOOKS</p>
<p>MASTER'S DEGREES</p>	<p>MASTER OF ARCHITECTURE WITH SPECIALISATION IN DESIGN</p>	<p>Supervisor: Prof J Noble</p>
<p>MASTER OF ARCHITECTURE</p>	<p>PRETORIUS, Henry Benjamin*</p>	<p>MASTER OF HUMAN SETTLEMENTS</p>
<p>CARLISLE, Leigh-Anne DE BRUYN, Chenél JORDAAN, Michke* KASSIMATIS, Dehan* LINDEQUE, Aat* LOUBSER, Margaux LOUW, Christelle LUDICK, Devan MATHOBISA, Kgalalelo Tshegofatso</p>		<p>TSHINAVHE, Fulufhedzani Freedom</p>
		<p>Dissertation Title: EXPLORING THE CHALLENGES IN SUPPLYING HOUSING IN THE GAP HOUSING MARKET WITH SPECIFIC REFERENCE TO</p>



THE CITY OF JOHANESBURG
METROPOLITAN MUNICIPALITY

Supervisor: Mr T Stewart

MASTER OF LAND AND PROPERTY DEVELOPMENT MANAGEMENT WITH SPECIALISATION IN PROJECT MANAGEMENT

KRUGER, Ruben Johan

ROBBERTSE, Catherine Elizabeth

MASTER OF LAND AND PROPERTY DEVELOPMENT MANAGEMENT WITH SPECIALISATION IN VALUATION

CHAUKE, Mikateko Hazel

COETZEE, Drian Josua

DZUDA, Allen

ESTERHUYZE, Priscilla Annette

MAGANYA, Hilda

MAZOMBA, Babalwa Khanyisa

MAZELE, Odwa

MASTER OF SCIENCE MAJORING IN QUANTITY SURVEYING

KNOBEL, Liezl

Dissertation Title: AN ASSESSMENT OF COST AND SOCIO-ECONOMIC IMPLICATIONS OF APPLYING INNOVATIVE ACTIVE DESIGN PRINCIPLES IN CONSTRUCTION: AN EXPLORATORY STUDY

Supervisor: Prof K Kajimo-Shakantu

Co-Supervisor: Mrs T Bremer

MASTER OF URBAN AND REGIONAL PLANNING

BEUKES, Conwell Reginald Cornelius

CRONJE, Martin Petrus

DANTI, Sekate Jan

DUBE, Ontebile Lucretia*

ENGELBRECHT, Aldo

GCILITSHANA, Monalisa Sinazo Sonwabiso

KALAOANE, Rets'Epile Charity

KAMBONDE, Frieda Ndapewa

KARUMENDU, Tjunao

LEHOBBO, Monaphathi Timothy

LEKHU, Lebogang Boitumelo Angelo

MAILA, Thato Lorraine

MAPHOSO, Nonhlanhla Portia*

MBENYANA, Akhona

MDWANE, Zukiswa Christlene*

MJEKULA, Avuyile

MNCUBE, Nompumelelo Perceverence

MOABI, Diteboho

MOLAOA, Boitumelo

MOLELE, Pheeha Arthur

MUDAU, Khuthadzo

MULAUDZI, Tshimbiluni Annah

NCHE, Tokelo Reginah Patience

NGOBENI, Hlayiso

NGOZWANA - MAZWI, Sweetness Neliswa

PUTSOANE, Tebello

SHIGWEDHA, Benjamin Tate

SYLVANUS, Helena

TIANI, Maselino

NATURAL SCIENCES

MASTER'S DEGREES

MASTER OF DISASTER MANAGEMENT

CHOCHE, Mogomotsi Cathrine

JANSEN, Sara-Jane Merle

MOHLALA, Makgoke Walter

MASTER OF ENVIRONMENTAL MANAGEMENT

BROWN, Jody Frank *

MWANDLA, Siphumelele Purity Nonsikelelo

RAMAHLOKO, Mahlape Violet

SEALE, Maapea Odette

SEDIBANA, Lucretia

WORTHMANN, Charissa Irmild *

MASTER OF SCIENCE IN NANOSCIENCE

FIEKKIES, Jermaine Turner Ryan



MASTER OF SCIENCE MAJORING IN APPLIED STATISTICS

BESSELAAR, Johannes Frederik

MASTER OF SCIENCE MAJORING IN BIOCHEMISTRY

GIDAGA, Mphumzi Songezo*

Dissertation Title: A
COMPARATIVE, IN VITRO
ANALYSIS OF THE INFLUENCE
OF FUNGAL CYTOCHROME
P450 REDUCTASES ON
CYTOCHROME P450
MONOOXYGENASE ACTIVITY

Supervisor: Prof DJ Opperman

Co-Supervisor: Prof MS Smit

NEL, Lynette*

Dissertation Title: THE
CYP52OMES FROM *CANDIDA*
ALBICANS AND *CANDIDA*
TROPICALIS

Supervisor: Prof DJ Opperman

Co-Supervisor: Prof MS Smit

OGUNYINKA, Mercy Ibukunoluwa

Dissertation Title:
HETEROLOGOUS EXPRESSION
AND SECRETION OF
ROTAVIRUS VP6 BY *ARXULA*
ADENINIVORANS

Supervisor: Prof HG O'Neill

Co-Supervisor: Prof J Albertyn

Co-Supervisor: Mrs L Steyn

SEGONE, Neo

Dissertation Title: ZOOTIC
POTENTIAL OF VIRAL ENTERIC
PATHOGENS IN SOUTH
AFRICAN DOMESTICATED
ANIMALS

Supervisor: Prof HG O'Neill

Co-Supervisor: Dr A Strydom

MASTER OF SCIENCE MAJORING IN BOTANY

NDIKI, Mawethu Lukhanyo

Dissertation Title: EVALUATING
COLOUR AND FORM
SIGNATURE TO IDENTIFY
INVASIVE ALIEN PLANT
SPECIES

Supervisor: Dr AC van Aardt

Co-Supervisor: Dr GP Potgieter

MASTER OF SCIENCE MAJORING IN CHEMISTRY

ERASMUS, George Henry

Dissertation Title: SYNTHESIS
AND ANTIDIABETIC ACTIVITY
OF THE HONEYBUSH TEA
CONSTITUENT, MACLURIN AND
DERIVATIVES

Supervisor: Dr SL Bonnet

Co-Supervisor: Dr A Wilhelm

MATEYISE, Nandisiwe Ghandi
Sibongile*

Dissertation Title:
EXPERIMENTAL AND
COMPUTATIONAL CHEMISTRY
STUDY OF OLIGOTHIOPHENE
BETADIKETONES AND THEIR
METAL COMPLEXES

Supervisor: Dr MM Conradie

Co-Supervisor: Prof J Conradie

MASTER OF SCIENCE MAJORING IN CONSUMER SCIENCE

BUKU, Phelokazi Zimbini Zintle

Dissertation Title:
HOUSEHOLD FOOD WASTE:
AN EXPLORATORY STUDY,
INVESTIGATING THE
CONSUMER PERCEPTIONS
AND ATTITUDES IN
BLOEMFONTEIN, FREE STATE

Supervisor: Dr N Cronjé

LEEUEW, Molise Michael

Dissertation Title: CONSUMER
BEHAVIOUR TOWARDS, AND
CONSUMER ACCEPTABILITY
OF, VETKOEK/IGWINYA FROM
DIFFERENT OUTLETS IN
BLOEMFONTEIN, SOUTH
AFRICA, WITH SPECIAL
EMPHASIS ON THE TEXTURAL
PROPERTIES



Supervisor: Dr C Bothma

Supervisor: Dr I van der Merwe

MASUKU, Mandisa Nontsikelelo

Dissertation Title: SENSORY PROFILING AND LIPID QUALITY OF VETKOEK (IGWINYA) IN SOUTH AFRICA: A CASE STUDY

Supervisor: Dr C Bothma

Co-Supervisor: Dr I van der Merwe

Co-Supervisor: Prof A Hugo

MASTER OF SCIENCE MAJORING IN ENVIRONMENTAL MANAGEMENT

DU RANDT, Lischen

MEHLOMAKHULU, Zimkhitha

MASTER OF SCIENCE MAJORING IN FORENSIC GENETICS

DOOLEY, Kyla Bianca*

Dissertation Title: GENETIC ANALYSIS OF 27 Y-STR LOCI IN DIFFERENT POPULATION GROUPS FROM SOUTH AFRICA FOR FORENSIC PURPOSES

Supervisor: Dr Karen Ehlers

Co-Supervisor: Mr MT Madisha

MASTER OF SCIENCE MAJORING IN FORENSIC SCIENCES

WILLIAMS, Elandré*

Dissertation Title: THE ANALYSIS OF ENDOGENOUS STEROIDS IN HUMAN URINE BY GC-C-IRMS

Supervisor: Prof MJ van der Merwe

Co-Supervisor: Mr T Viljoen

MASTER OF SCIENCE MAJORING IN GENETICS

DE LA REY, Johan*

Dissertation Title: METHYLATION ANALYSIS OF TYPE 2 DIABETES MELLITUS (T2DM) GENES IN CASES AND CONTROLS FROM CENTRAL SOUTH AFRICA

Supervisor: Dr GM Marx

Co-Supervisor: Mr PA Bester

JACOBS, Ruan

Dissertation Title: GENETIC VARIATION IN DIVERSE SOUTHERN AFRICAN GREATER KUDU (TRAGELAPHUS STREPSICEROS) POPULATIONS

Supervisor: Prof JP Grobler

Co-Supervisor: Dr WG Coetzer

Co-supervisor: Mrs H Bindeman

MASTER OF SCIENCE MAJORING IN GEOGRAPHY

NKUNA, Basani Lammy

Dissertation Title: MAPPING AND MONITORING WINTER WHEAT CROP USING BIOPHYSICAL PARAMETERS AND MULTI-TEMPORAL SENTINEL-2 IMAGERIES

Supervisor: Dr Adriaan van der Walt

Co-Supervisor: Dr S Newete

Co-Supervisor: Dr A Nyamugama

Co-Supervisor: Prof K Abutaleb

MASTER OF SCIENCE MAJORING IN GEOHYDROLOGY

GIBSON, Kirsty

Dissertation Title: THE APPLICATION OF MACHINE LEARNING TECHNIQUES TO SIMULATE AND PREDICT CHANGES IN GROUNDWATER LEVELS IN THE GAUTENG AND NORTH WEST DOLOMITE AQUIFER, SOUTH AFRICA

Supervisor: Prof K Witthueser



MURRAY, Kes John

Dissertation Title: TESTING AND EVALUATING THE SUSTAINABLE ABSTRACTION OF GROUNDWATER FROM A SECONDARY AQUIFER TO PAARL, SOUTH AFRICA: A PUMPING AND CHEMICAL DATA ANALYSIS ON A HIGH YIELDING FRACTURED ROCK AQUIFER

Supervisor: Dr SS De Lange

THWALA, Kedibone

Dissertation Title: GEOCHEMICAL CHARACTERISATION OF THE WITBANK COALFIELDS, SOUTH AFRICA

Supervisor: Prof KT Witthueser

Co-Supervisor: Dr RN Hansen

VAN WYK, Wilna Anet

Dissertation Title: FRESH GROUNDWATER CIRCULATION INVESTIGATION FROM DEEP BOREHOLE KZF-01, WITH STABLE ISOTOPIC AND RADIOCARBON DATING METHODS AROUND THE CERES, TANQUA KAROO AND CEDERBERG REGION

Supervisor: Dr SS de Lange

**MASTER OF SCIENCE
MAJORING IN GEOLOGY**

NEL, Ryan

Dissertation Title: STRATIGRAPHY OF THE CANGO CAVES GROUP OF THE NEOPROTEROZOIC TO EARLY PALAEOZOIC SALDANIA BELT, NORTH OF OUDTSHOORN, SOUTH AFRICA

Supervisor: Dr HE. Praekelt

Co-Supervisor: Prof GJB Germs

**MASTER OF SCIENCE
MAJORING IN HUMAN
MOLECULAR GENETICS**

ERASMUS, Johannes Mattheus

Dissertation Title: GENETIC AND MOLECULAR ANALYSIS OF MALE INFERTILITY IN A PRIVATE PRACTICE IN SOUTH AFRICA

Supervisor: Mrs S Schneider

Co-Supervisor: Prof PH Wessels

**MASTER OF SCIENCE
MAJORING IN MATHEMATICAL
STATISTICS**

KORI, Tjamela Ernest

Dissertation Title: MEASURING SYSTEMIC RISK IN THE SOUTH AFRICAN BANKING SECTOR

Supervisor: Mr F Koning

SOUTHEY, Sonelca Zoetjé *

Dissertation Title: MULTIPLE IMPUTATION METHODS FOR CATEGORICAL DATA

Supervisor: Dr MJ von Maltitz

**MASTER OF SCIENCE
MAJORING IN MICROBIOLOGY**

BRINK, Jacobus Theunissen
Rabie

Dissertation Title: THE ROLE OF EHT1 IN CANDIDA ALBICANS BIOFILM FORMATION, LIPID METABOLISM AND VIRULENCE

Supervisor: Prof CH Pohl

Co-Supervisor: Prof J Albertyn

Co-Supervisor: Dr R Fourie

MJOKANE, Nozethu*

Dissertation Title: EXPLORING ASPIRIN'S PHOTO- AND CHEMO-SENSITISING PROPERTIES TO CONTROL MICROBIAL GROWTH, CAPSULE PRODUCTION AND MACROPHAGE PHENOTYPE ORIENTATION

Supervisor: Prof OM Sebolai

Co-Supervisor: Prof CH Pohl

Co-Supervisor: Dr OA Ogundeji

Co-Supervisor: Dr OS Folorunso



MASTER OF SCIENCE MAJORING IN MINERAL RESOURCE MANAGEMENT

BURGER, Franco*
DU TOIT, Marelize*
HENDERSON, Cindi
MJOLI, Zandile
NGALELA, Lawrence
SEBOLA, Tlou Piet
THOBEJANE, Gilbert Malose
VAN DER MERWE, Frederik Pieter*

MASTER OF SCIENCE MAJORING IN PHYSICS

LARA, Sekhantso Paul

Dissertation Title: FABRICATION OF MICROSTRUCTURES BY ELECTRON BEAM LITHOGRAPHY USING AES SYSTEM'S ELECTRON COLUMN

Supervisor: Dr RA Harris
Co-Supervisor: Prof JJ Terblans

MASTER OF SCIENCE MAJORING IN PLANT BREEDING

VAN DER MERWE, Jacques Benade

Dissertation Title: CHARACTERISATION AND ANALYSIS OF COMBINING ABILITY IN VEGETABLE- TYPE SOYBEAN FOR YIELD AND NUTRITIONAL QUALITY TRAITS

Supervisor: Dr R van der Merwe
Co-Supervisor: Dr A van Biljon

MASTER OF SCIENCE MAJORING IN PLANT PATHOLOGY

MAHLANGU, Bongani Andile

Dissertation Title: SELECTION AND ASSESSMENT OF WHEAT RHIZOBACTERIA AND ENDOPHYTES FOR BIOLOGICAL CONTROL OF DISEASES AND GROWTH PROMOTION IN WHEAT

Supervisor: Prof WJ Swart
Co-Supervisor: Dr M Nyoni

DOCTORAL DEGREES

DOCTOR OF PHILOSOPHY MAJORING IN CHEMISTRY

MULLER, Kina Ann

Thesis Title: A SOLID STATE AND KINETIC STUDY OF BIDENTATE OXYGEN DONOR COMPLEXES OF COPPER

Kina Ann Muller was born on the 14th of January in Vryburg. She matriculated from Eunice High School in 2004. She obtained her BSc degree in Physics, Chemistry and Biology in 2008, BSc Hons in Chemistry in 2009 and MSc in Chemistry in 2012 from the University of the Free State. She started her career as an instrument/laboratory technician in the Chemistry Department at



the Nelson Mandela University in Port Elizabeth in 2015 whilst continuing her PhD in Chemistry at the University of the Free State on a part-time base.

With her thesis, titled: **A SOLID STATE AND KINETIC STUDY OF BIDENTATE OXYGEN DONOR COMPLEXES OF COPPER**, the candidate contributes to the field of coordination chemistry and the solid-state structural behaviour of copper complexes, experimentally and theoretically. The study includes a detailed single crystal X-ray crystallographic investigation on a range of copper complexes, as well as a preliminary kinetic evaluation which enables basic principles to be evaluated that are associated with the oxidation of catechol. The quest for compounds showing anti-bacterial, anti-viral, anti-fungal as well as anti-parasitic properties has been a focus of pharmaceutical and chemical research for centuries. In continuation of the quest for more effective agents in this field of research, the present study focused on the synthesis and characterization of selected homoleptic and heteroleptic coordination compounds of copper(I) and copper(II).

Promoter: Prof A Roodt

Co-Promoter: Dr M Schutte-Smith

DOCTOR OF PHILOSOPHY MAJORING IN ENVIRONMENTAL MANAGEMENT

AVENANT, Maria Francina

Thesis Title: THE ROLE OF FISH IN A SUITE OF INDICATORS FOR ASSESSING ENVIRONMENTAL WATER REQUIREMENTS IN NON-PERENNIAL RIVERS IN THE ORANGE RIVER SYSTEM

Marinda Avenant (née Ligthart) was born on 7 April 1968 in Malmesbury, Western Cape. She matriculated from Swartland High School in 1986. She graduated with a BSc Honours (Zoology) in 1990 and obtained a Diploma in Higher Education in 1991, both from the University of Stellenbosch. After teaching for three years, she joined the Centre for Environmental Management (University of the Free State) in 1995 as course-coordinator. She obtained a Master of Environmental Management from the University of the Free State in 2000 and was appointed as a lecturer in the Centre for Environmental Management in 2003. For five years she was Acting Director of the Centre.

With her thesis, titled: **THE ROLE OF FISH IN A SUITE OF INDICATORS FOR ASSESSING ENVIRONMENTAL WATER REQUIREMENTS IN NON-PERENNIAL RIVERS IN THE ORANGE RIVER SYSTEM**, the candidate attempts, to quote the foreign examiner, to "[use] fish to determine the ecological condition of rivers that frequently have little or no water, [which] seems almost counterintuitive. [The examiner] couldn't help wondering how many people would have been willing to undertake such a study. The end result, however, is a remarkable compilation of data and an almost monumental thesis. The candidate has demonstrated a capacity to work independently and has presented a large body of original work. It represents a major contribution to knowledge about non-perennial rivers in South Africa." Parts of this study have been presented at four international conferences. It deserves to be published as a monograph if not as a series of papers.

Promoter: Dr SA Mitchell

Co-Promoter: Prof MT Seaman



DOCTOR OF PHILOSOPHY MAJORING IN GEOHYDROLOGY

GOMEZ ARIAS, Alba

Thesis Title: HYDROGEOCHEMICAL ASSESSMENT, WATER TREATMENT AND REVALORIZATION OF DUMPS, TAILINGS AND DRAINAGES PRODUCED AT PHALABORWA INDUSTRIAL COMPLEX

The candidate studied Geology at the University of Huelva, Spain. She has a master's degree in Geology and Environmental Management of Mineral Resources also conferred by the University of Huelva. She developed a novel water treatment system patented internationally and successfully used in South Africa and Europe. Co-authored one book, one book-chapter, six articles in high impact journals and 14 abstracts and proceedings. She offered eight talks in international conferences and was the keynote of a webinar hosted by the Association of Spanish Researchers in South Africa, the Spanish Embassy and the Delegation of European Union in South Africa.

Her thesis, titled: **HYDROGEOCHEMICAL ASSESSMENT, WATER TREATMENT AND REVALORIZATION OF DUMPS, TAILINGS AND DRAINAGES PRODUCED AT PHALABORWA INDUSTRIAL COMPLEX**, the candidates provides a comprehensive evaluation of Phalaborwa Industrial Complex, which led to the revalorization of the mining wastes as potential rare earth elements (REE) resources and as neutralization reagent, and culminated with the design of a water treatment system that would benefit from both characteristics of the wastes. The alkaline copper tailing was used to neutralize the extremely acidic wastewater from the phosphoric acid plant. The system, developed at bench scale, was able to remediate the water and, at the same time, to concentrate the REE contained in both the water and the tailing. This thesis attempts to find a solution to an environmental problem with the development of an eco-friendly and sustainable system that concentrate REE in a circular economy approach, while improving the quality of industrial wastewater.

Promoter: Prof PD Vermeulen

Co-Promoter: Prof JM Nieto Liñán

DOCTOR OF PHILOSOPHY MAJORING IN GEOLOGY

ODENDAAL, Adriaan Izak

Thesis Title: SEDIMENTARY CYCLES IN THE ADELAIDE SUBGROUP, SOUTHERN KAROO - A NEW PERSPECTIVE

Adriaan Odendaal was born on the 10th of August 1985 in Ermelo. After matriculating at Hoërskool Harrismith in 2004, he enrolled for a B.Sc. degree in Geology at the University of the Free State (UFS), completing his B.Sc. Honours degree at the UFS in 2010. In 2011 he registered as a part time M.Sc. student at the Department of Geology at the UFS, which was subsequently upgraded to a Ph.D. degree. From 2011 onwards, the candidate was appointed as a lecturer in the Department of Geology at the UFS.



With his thesis, titled: **SEDIMENTARY CYCLES IN THE ADELAIDE SUBGROUP, SOUTHERN KAROO – A NEW PERSPECTIVE**, the candidate makes a major contribution to understanding the early development of the Beaufort Group in the southern Karoo. The candidate conducted a sedimentological and stratigraphic investigation of the rocks of the Adelaide Subgroup of the Beaufort Group along the Nuweveld Escarpment. This entailed measuring seven lithostratigraphic profiles and tracing identifiable sandstone packages laterally, which aided in the identification and mapping of three lithostratigraphic units. These lithostratigraphic units represent three coarsening-upwards megacycles that are 100s of meters thick. The development of these coarsening-upwards megacycles is explained by the candidate as being associated with the advancement of tectonically influenced progradational distributive fluvial systems that deposited sediment basinwards. The candidate also documented, for the first time, the presence of lungfish aestivation burrows within the Lower Beaufort Group.

Promoter: Dr L Nel

Co-Promoter: Prof WA Van Der Westhuizen

DOCTOR OF PHILOSOPHY MAJORING IN MICROBIOLOGY

KGOTLE, Evodia Yolander

Thesis Title: ELUCIDATING THE BIOLOGICAL ROLE OF 3-HYDROXY FATTY ACID (3-OH C10:0) IN THE PATHOGENESIS OF *PSEUDOMONAS AERUGINOSA*

Evodia Kgotle was born on the 15th of July 1992 in Parys, South Africa. She matriculated at Boitlamo Secondary School in 2009. She graduated with a BSc degree at the University of the Free State in 2013. She later obtained a BSc (hons) degree in 2014 and MSc degree in 2016 from the same University. In 2014, she appointed as a practical demonstrated for undergraduate microbiology student Department of Microbial, Biochemical and Food Biotechnology at the University of the Free State. She served in this role until 2020.

With her thesis, titled: **ELUCIDATING THE BIOLOGICAL ROLE OF 3-HYDROXY FATTY ACIDS (3-OH C10:0) IN THE PATHOGENESIS OF *PSEUDOMONAS AERUGINOSA***, the candidate contributes work that shows that 3-OH C10:0 may be a virulence factor that is relevant for studying the immune response to pseudomonal infections. Through using a number of in vitro models i.e. a murine macrophage cell line and laboratory animals (nematodes and rats), she was able to document the effects of 3-OH C10:0. The obtained findings provide insight into how 3-OH C10:0 may also stimulate the host immune response. It should now be possible to design gene deletion studies that impair the effects of 3-OH C10:0. Such studies could assist in highlighting the biosynthetic pathway for 3-OH C10:0 as a possible target for developing anti-virulence drugs.

Promoter: Prof OM Sebolai

Co-Promoter: Prof CH Pohl-Albertyn

Co-Promoter: Prof J Albertyn



DOCTOR OF PHILOSOPHY MAJORING IN PHYSICS

MOKOENA, Teboho Patrick

Thesis Title: DEVELOPMENT OF LOW OPERATING TEMPERATURE GAS SENSING FOR ENHANCED DETECTION OF H₂S AND VOCs USING UNDOPED AND RARE EARTHS DOPED NiO BASED GAS SENSORS

Teboho Patrick Mokoena was born in Paul Roux, Free State on the 25th of September 1991. He matriculated at Thalabodiba Secondary School in 2008. He obtained BSc Chemistry and BSc Hons in Physics at UFS in 2012 and 2013, respectively. Later, he obtained MSc in Nanoscience specialized with Physics in 2016 and PhD Physics in 2021 at UFS. In 2017 he joined CSIR as a PhD candidate, and he was also a part-time lecturer at TUT where he lectured general Physics modules (GPS115B, PHU161B, PHI105D, and ESL111T) for first-year students at Arcadia and Pretoria campuses from 2019 to 2020.

With his thesis, titled: **DEVELOPMENT OF LOW OPERATING TEMPERATURE GAS SENSING FOR ENHANCED DETECTION OF H₂S AND VOCs USING UNDOPED AND RARE EARTHS DOPED NiO BASED GAS SENSORS** the candidate made a substantial impact by correlating the gas sensing with the luminescence properties of p-type NiO semiconductor metal oxide (SMO) doped with various rare earths. This particular approach of linking the sensing and luminescence features of SMO is currently limited in the sensing community. This unique study has produced four high quality publications including one review article, while another three are currently under review. The student has also produced two book chapters for Elsevier. The international examiner found this thesis to be of the highest quality and recommended that the thesis be accepted unconditionally.

Promoter: Prof DE Motaung

Co-Promoter: Prof HC Swart

Co-Promoter: Prof KT Hillie

DEAN'S MEDALS

AWARDED TO A STUDENT WHO ACHIEVED THE BEST RESULTS IN RESPECT OF A MASTER'S DEGREE IN THE FACULTY OF NATURAL AND AGRICULTURAL SCIENCES

Nicola Andrea Vollmer
(Master of Architecture)



DEAN |
PROF RS LETŠOSA

MASTER'S DEGREES

MASTER OF DIVINITY

ALLEN, Dylan
BASSON, Domonic Nathan
BEETS, Willem Marthinus
DE JONGH, Daniël Jacobus Francois
ELS, Jan Christoffel
GOTTSCALK, Ernst Karl
KASSIER, Ingrid*
VISSER, Gezina Aletta
WESSELS, René

MASTER OF THEOLOGY WITH SPECIALISATION IN CHURCH HISTORY AND POLITY

NEL, Martienus Johannes
USENI, Chifuniro Joseph

MASTER OF THEOLOGY WITH SPECIALISATION IN MISSIOLOGY

PONOANE, Ponoane

MASTER OF THEOLOGY WITH SPECIALISATION IN PRACTICAL THEOLOGY

ELSE, Jacques Charles
LATEGAN, Carin Rene
MAHLOMAHOLO, Mamokete Anastasia

MASTER OF THEOLOGY WITH SPECIALISATION IN RELIGION STUDIES

SETSHASE, Matau Eunice*

Dissertation Title: THE DECOLONIAL APPROACH IN THE EXPLORATION OF INDIGENOUS KNOWLEDGE SYSTEMS: A QUESTION OF TERMS

Supervisor: Dr J Mokhoathi

MASTER OF THEOLOGY WITH SPECIALISATION IN SPIRITUALITY

DU PLESSIS, Johannes Stefanus*

MASTER OF THEOLOGY WITH SPECIALISATION IN SYSTEMATIC THEOLOGY

BALOYI, Mbitsini Pauline

DOCTORAL DEGREES

DOCTOR OF PHILOSOPHY IN THEOLOGY WITH SPECIALISATION IN BIBLE TRANSLATION

HOUSTON, Tobias John

Thesis Title: DESIGNING A BIBLE TRANSLATION FOR CIYAWO SPEAKERS IN MOZAMBIQUE

Tobias Houston was born on the 30th of May 1989 in a rural area near the town of Gosford, approximately eighty kilometres north of Sydney, New South Wales, Australia. He matriculated at Green Point Christian College and received the Bachelor of Theology degree from Wesley Institute, Sydney, now called Excelsia College, in 2011. In 2017, Tobias obtained the MA (Theology) with specialisation in Bible Translation Management, with distinction, from the University of the Free State. Since



2011, Tobias has lived and worked in northern Mozambique for the Australian Baptist intercultural mission arm, Global Interaction, and currently coordinates an oral Bible translation project in Mozambican Ciyawo.

With his thesis, titled: **DESIGNING A BIBLE TRANSLATION FOR CIYAWO SPEAKERS IN MOZAMBIQUE**, the candidate utilised complexity theory, focusing on the function of a new translation in light of the contextual frames in formulating the design for a Mozambican Ciyawo language Bible translation. The candidate demonstrated the need for a functional Ciyawo Bible translation that responds to the complexity of the context appropriately. The narrative frames of history, Islam, and orality as they impact the Mozambican Yawo situation were presented, and a design for a new translation for Ciyawo speakers in Mozambique in reference to those frames was presented. This research contributes new information to the understanding of Ciyawo Bible translation, as well as insights regarding the various contextual frames of the Yawo situation as applied to Bible translation. The candidate also contributes to Bible Translation generally through the provision of a model by which other translation project stakeholders can benefit as they plan their own projects.

Promoter: Prof CL Miller-Naudé

Co-Promoter: Prof JA Naudé

DOCTOR OF PHILOSOPHY IN THEOLOGY WITH SPECIALISATION IN PRACTICAL THEOLOGY

ANDREW, Daniël Nicolaas

Thesis Title: FAITH COMMUNITIES AND SOCIAL COHESION IN SOUTH AFRICA: THE CASE OF CONGREGATIONS IN THE APOSTOLIC FAITH MISSION IN SOUTH AFRICA

Daniel Andrew was born in Mooresburg on the 5th of March 1972. He received his secondary education in Piketberg, where he matriculated at the Steynville Senior Secondary School in 1990. He obtained the degree BTh (Cum Laude) in 1995, the degree MTh in 1997, the degree MA (Development Studies) in 2013 and the PhD in Systematic Theology in 2006 at the University of the Western Cape. He started his career as a pastor in the Apostolic Faith Mission in Lutzville in 1996. In 2003 he was appointed in the Department of Religion and Theology as Part-time lecturer and at present he is Community Development Officer at the West Coast District Municipality.

With his thesis, titled: **FAITH COMMUNITIES AND SOCIAL COHESION IN SOUTH AFRICA: THE CASE OF CONGREGATIONS IN THE APOSTOLIC FAITH MISSION IN SOUTH AFRICA**, the candidate contributes towards understanding the role communities of faith can play in developing social cohesion in South Africa. With this contribution, he attempts to address the struggle South Africans are facing in order to overcome its past of discrimination and prejudice on the basis of race, class, gender and age. The study applies intergroup contact theory to explore how intergroup contact may reduce social exclusion, discrimination and polarization among diverse groups. A qualitative methodology was used, and focus-group interviews were conducted to obtain data from participants in five multicultural AFM congregations. The concept of intersectionality is shown to be a suitable lens for understanding the intersection between race, gender, class and age. The religious and spiritual capital in multicultural congregations can become a space for healing and transformation.

Promoter: Prof WJ Schoeman

Co-Promoter: Prof LJS Botha



ENGELBRECHT, Pierre Burger

Thesis Title: CONTEMPORARY CHRISTIAN FOLLOWERSHIP: THE EMMAUS NARRATIVE AS INTERPRETATIVE FRAMEWORK.

Pierre Burger Engelbrecht was born in Johannesburg on the 25th of July 1984. He matriculated at Hoërskool Jeugland, Kempton Park in 2002. He graduated with a Baccalaureus Theologiae (BTh) degree at the University of Pretoria in 2007 and a Master of Divinity (MDiv) in 2009 at the same University. He is married to Tarien and is the digital content manager at Ekerk. Ekerk is an online community of faith.

With his thesis, titled: **CONTEMPORARY CHRISTIAN FOLLOWERSHIP: THE EMMAUS NARRATIVE AS INTERPRETATIVE FRAMEWORK**, the candidate sheds new light on the concept of discipleship and helps facilitate a fresh conversation on discipleship. His research helps bridge the perceived gap between New Testament Theology and Practical Theology as well as between theology and praxis, using a hermeneutical explication and application of Luke 24:13-35 to give an interpretative framework for contemporary communities of faith. This is done by an in-depth narratological and theological explanation of the Emmaus narrative. The results show that Luke 24:13-35 provides new insights into largely ignored dimensions of discipleship and infuses the present theological discussion on discipleship with a broader missional understanding. It is pointed out that followership is a better epistemological framework for a contemporary understanding of discipleship and that the Emmaus narrative provides new insights into followership practices.

Promoter: Prof WJ Schoeman

Co-Promoter: Prof SJ Joubert

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.

THE
SEANAMARENA

THE
TRADITIONAL
BASOTHO BLANKET

YOKE PATTERNS



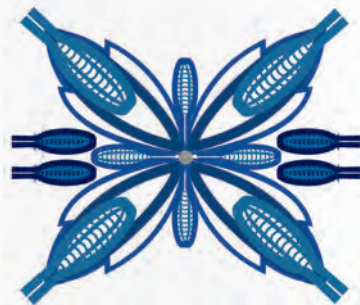
Yoke pattern for the Chancellor and Vice-Chancellor

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

Congratulations on your graduation and best wishes for your next adventure!
We are very proud of you and your achievements.



KEEP CONNECTED

Alumni are a real measure of a university's brand and we strive to keep you informed of the latest news about our young leaders, pioneers and the projects emerging from the UFS. We do this through our online platforms, social media, publications like **BULT** and events such as the **Chancellor's Distinguished Alumni Awards**. We hope that you will keep connected with your Alma Mater by sharing your future achievements with our alumni community.

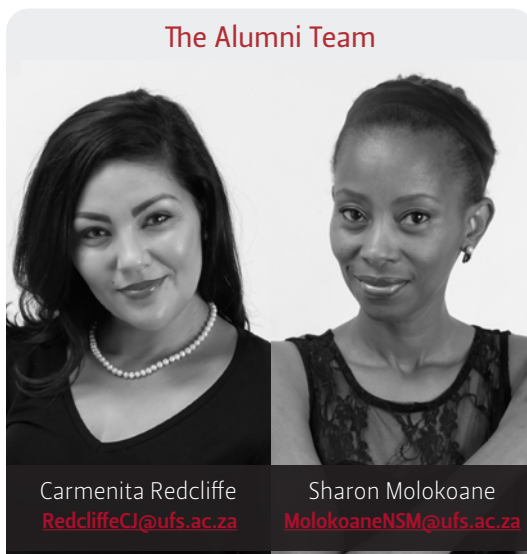
VOICES FROM THE FREE STATE

Voices from the Free State is a series of alumni initiated and led personal podcast narratives by outstanding alumni of the UFS who reflect on their experiences at the UFS, telling their stories, and explaining how their university years shaped their future and paved the way for their respective successes. Join the [Voices from the Free State](#) podcast series as we release a new podcast featuring a different alumnus on the first Monday of each month throughout 2021.

A CONNECTED COMMUNITY

We exist not only to keep you connected to your Alma Mater but to help you stay connected to each other. We encourage engagement and networking opportunities through virtual or hybrid events, informal visits and guest lectures. You can connect with alumni globally and reconnect with former peers through the Alumni Office.

The Alumni Team



Carmenita Redcliffe
RedcliffeCJ@ufs.ac.za

Sharon Molokoane
MolokoaneNSM@ufs.ac.za



Tertia de Bruin
FHS Alumni@ufs.ac.za

Lineo Mafereka
AlumniLesotho@ufs.ac.za

STRENGTHENING BONDS

We value your financial contributions, your time, your skills and your networks. Strengthen your bond with your Alma Mater by becoming involved in mentoring, projects, events and initiatives aimed at creating a fulfilling student and alumni experience for fellow UFS students and alumni. For more information about impactful projects or to donate visit our [donations webpage](#).

HERE FOR YOU

We are the Alumni Office team and we are here for YOU. Stay connected with us via email, our [website](#) or social media ([Facebook](#) and [LinkedIn](#)). Ensure that you update your details with us regularly so we may celebrate your unfolding journey and successes with you.

To update your details online at www.ufs.ac.za/alumni or email alumni@ufs.ac.za. Include your date of birth, cell phone number and full names.

T: +27 51 401 9199 | E: alumni@ufs.ac.za | www.ufs.ac.za

UFSUV | UFSweb | UFSweb | ufsuv

Inspiring excellence. Transforming lives.



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