

NELSON MANDELA

UNIVERSITY



December 2023

Summer Graduation

Ceremony 2

Faculty of Engineering, the Built Environment and Technology

Honorary Doctoral Degree

Faculty of Health Sciences

Faculty of Law

Honorary Doctoral Degree

Faculty of Science

13 DECEMBER 2023 | 14:30

VISION

To be a dynamic African university, recognised for its leadership in generating cutting-edge knowledge for a sustainable future

MISSION

To offer a diverse range of life-changing education experiences for a better world

VALUES

Excellence
Respect for Diversity
Ubuntu
Social justice and equality
Integrity
Sustainable stewardship



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OUR BRAND

We are Nelson Mandela University

Together we are **Nelson Mandela University**. We are the only university in the world to be named after Nelson Mandela. Our iconic South African statesman, humanitarian and leader is known globally for what he achieved.

We are honoured as **Nelson Mandela University** to carry his name. In return, we honour our namesake by endeavouring to live his legacy. We honour him by using his name in full. We are **Nelson Mandela University**.

Saam is ons **Nelson Mandela Universiteit**. Ons is die enigste universiteit ter wêreld wat na Nelson Mandela vernoem is. Ons ikoniese Suid-Afrikaanse staatsman, humanitêre figuur en leier, is wêreldwyd bekend vir wat hy bereik het.

Ons is geëerd as **Nelson Mandela Universiteit** om sy naam te dra. In ruil daarvoor, eer ons ons naamgenoot deur daarna te streef om sy nalatenskap uit te leef. Ons eer hom deur sy naam ten volle te gebruik. Ons is **Nelson Mandela Universiteit**.

Sisonke **siyiNelson Mandela University**. Siyeyona kuphela kweyunivesithi ehlabathini ethiywe ngoNelson Mandela. Isiswenye sethu nowayesakuba nguMongameli woMzantsi Afrika, onesisa nokwayinkokheli waziwa kwiHlabathi jikelele ngenxa yowakuzuzayo.

Siziva siwongekile **njengeNelson Mandela University** ukuthwala igama lakhe. Ngokwembuyekazo, siphakamisela phezulu ugama wethu ngokuzama ukuphila kumzila wakhe. Simphakamisela phezulu ngokusebenzisa igama lakhe ngokupheleleyo. **SiyiNelson Mandela University**.





Our logo

We developed a modern, font-based logo to communicate a forward-thinking concept. With its dynamic African feel, it sets Nelson Mandela University apart from its competition. The use of the circle and the triangle in the name creates a playful feel while alluding to ingenuity and creativity - two vital ingredients for change.

The colour palette was specifically chosen to reflect the University values and to add gravitas to the logo. We opted for blue, as it symbolises heritage, strength and trustworthiness. The bright yellow was chosen to add approachability, freshness and warmth.



CONGRATULATORY MESSAGE



Dr Geraldine Fraser-Moleketi
Chancellor

Graduation is a significant milestone in life. It is the culmination of an academic journey that reflects your ambition, determination, commitment, perseverance, and demanding work. We know that this journey is not yours alone, as many have travelled with you. These are your friends, your lecturers,

supervisors, mentors, and your family. They have invested in you financially, guided your studies and encouraged you to keep going. But above all, they have believed in your ability to succeed and achieve this graduation dream.

Today we celebrate not only what you have achieved, but what this promises going forward in terms of your potential as a graduate and alumnus of Nelson Mandela University.

Your education is your passport to the future – and the future hopes of our country and continent. Indeed, education is the foundation to a better world. Or, as Nelson Mandela so eloquently put it:

“**Education is the most powerful weapon which you can use to change the world.**”

Your joy is our joy too.

We salute and applaud your achievement and wish you every success for your future endeavours, wherever they may take you.

Congratulations!

Uthweso zidanga ludumo olubaluleke kunene ebomini. Yinkcochoyi kuhambo lwemfundo enomsila echaza ukunxanwa kwakho, ukuzimisela, ukuzinikela, ukunyamezela kwanomsebenzi otya ixesha. Siyayazi ukuba olu hambo asilolwakho kuphela, nanjengoko uninzi luthelwakhenketha nawe. Abo ngabahlobo bakho, abahlohli bakho, amakhankatha, abacebisi, kwakunye nosapho lwakho. Batyale imali kuwe, bekukhokela kwizifundo zakho ze bakukhuthaza ukuba uqhubeke uye phambili. Kodwa ngaphezulu konke, baye bakholelwa kumandla wakho okuphumelela nokuzuza eli phupha lothweso sidanga.

Namhlanje sibhiyozela hayi nje othe wakuzuza, kodwa okulithemba lokuqhubekela phambili mayelana namandla owathweleyo njengothweswe isidanga kwaye

ebengumfundi waseNelson Mandela University.

Imfundo yakho litikiti lakho elikukhokelela ebomini – kwaye ubomi obulithemba lelizwe nezwekazi lethu. Ngaphandle kwamathandabuzo, imfundo, sisiseko sehlabathi elingcono. Okanye, njengokuba eyibeka ngokucace gca uNelson Mandela xa esithi:

“ **Imfundo lelona krele lakhe lanamandla ongathi ulisebenzise ukutshintsha ihlabathi.** ”

Uvuyo lwakho luvuyo lwethu nathi.

Sikothulela umnqwazi kwaye sikuqhwabela izandla ngenzuzo yakho futhi sikunqwenelela impumelelo nakuso nasiphi na isigaba seenzame zobomi bakho, naphi na apho singakusa khona.

Huntshu!

Gradeplegtigheid is 'n belangrike mylpaal in die lewe. Dit is die hoogtepunt van 'n akademiese reis wat jou ambisie, vasberadenheid, toewyding, deursettingsvermoë en veeleisende werk weerspieël. Ons weet dat hierdie reis nie joune alleen is nie, aangesien baie mense saam met jou gereis het, jou vriende, jou lektore, toesighouers, mentors en jou familie. Hulle het finansieel in jou belê, jou studies gelei en jou aangemoedig om voort te gaan. Maar bowenal het hulle geglo in jou vermoë om sukses te behaal en hierdie droom om te gradueer te bereik.

Vandag vier ons nie net wat jy bereik het nie, maar ook dit wat dit vorentoe beloof in terme van jou potensiaal as 'n gegradueerde en alumnus van die Nelson Mandela Universiteit. Jou geleerdheid is jou paspoort na die toekoms – en die toekomshoop van ons land en kontinent. Inderdaad, onderwys is die grondslag vir 'n beter wêreld. Of soos Nelson Mandela dit so welsprekend gestel het:

“ **Onderwys is die magtigste wapen waarmee jy die wêreld kan verander.** ”

Vandag is jou vreugde ook ons vreugde.

Ons salueer en loof jou prestasie en wens jou alle sukses toe vir jou toekomstige ondernemings, waar hulle jou ook al mag neem.

Veels geluk!



Professor Sibongile Muthwa
Vice-Chancellor

OUR CHANCELLOR, VICE-CHANCELLOR AND CHAIR OF COUNCIL



Meet **Dr Geraldine Fraser-Moleketi**, whose experience, commitment and heart for the continent's social and economic transformation are aligned with the goals of Nelson Mandela University.

Throughout her exemplary career, our Chancellor has worked for economic growth that is more sustainable. She has worked in inter-governmental structures, interacted with political leaders, business leaders and civil society, and has been involved in complex negotiations across different issues and sectors.

The titular head of our institution was previously Director of the United Nations Development Programme's (UNDP) Democratic Governance Group (DGP), based in New York, working across six regional centres in more than 100 countries. Dr Fraser-Moleketi was Minister for Welfare and Population Development in South Africa's first democratic government and went on to serve as a member of the South African Parliament for three consecutive parliaments (1994 through September 2008).

Some of Chancellor's early achievements include participation in the multi-party negotiation process and as Deputy National Coordinator of the ANC's National Elections Commission ahead of the country's first democratic elections.

Our Chancellor serves on various boards, is a fellow of the Institute of Politics, Kennedy School of Government, at Harvard University, holds a master's degree in administration, and has received several awards, including the OP Dwivedi Public Service Award from the International Association of Schools and Institutes of Public Administration.



Professor Sibongile Muthwa is the Vice-Chancellor of Nelson Mandela University. Her second five-year term of office began in April this year.

Professor Muthwa holds a PhD from the School of Oriental and African Studies, University of London, and an MSc in Development Policy and Planning from London School of Economics and Political Science. The Vice-Chancellor has enjoyed a distinguished career both in South Africa, and

internationally, working in both development and public sector institutions, as well as in academia. Between 2010 and 2017 she was the Deputy Vice-Chancellor for Institutional Support, now known as People and Operations, at Nelson Mandela University.

Professor Muthwa served as the Chairperson of Universities South Africa [USAf] a membership organisation representing all South Africa's universities, that promotes and facilitates optimum conditions for universities to operate effectively and contribute to social, cultural and economic development.

She further serves on the Presidential Human Resource Development Council. Prior to joining the University, she served as Director General of the Eastern Cape Provincial Government [2004 and 2010]. Upon her return to South Africa, before joining government, she was Director of the Fort Hare Institute of Government.

She is deeply committed to gender justice, social inclusion and active democratic participation, and accordingly serves on a number of Boards and advisory structures, including from 2014 as a Commissioner of the Financial and Fiscal Commission, and served as its Deputy Chairperson from 2017-2019.

The Nelson Mandela University Council appointed **Ambassador Nozipho January-Bardill** as Chairperson of Council, the institution's highest decision-making body, in October 2017. She is currently serving her second term.

Ambassador January-Bardill's appointment as Council Chair was momentous, as she was the University's first black African female to take up the position.

She is an independent non-executive director of Mercedes Benz SA, the MTN Foundation, and two NGOs, Tshwaranang Legal Services (for women who are victims of gender-based violence) and Phenduka Literacy (for under-educated primary school pupils in Alexandra Township). In 2021 she was appointed to the Board of Trustees of the United



Nations Voluntary Fund for Technical Assistance and the Implementation of the Universal Periodic Report (UPR) in the office of the UN High Commissioner for Human Rights. Her own company Bardill and Associates advises companies on integrating race, gender and sustainable development into their business strategies and building cultures to end sexual harassment, bullying and GBV.

Ambassador January-Bardill served as SA's Ambassador to Switzerland, Lichtenstein and the Holy See as well as Deputy Director General, responsible for Human Resources and the Foreign Service Institute in the South African Department of Foreign Affairs. She was interim Chief of Staff and special advisor to UN Women and the UN Environmental Programme (UNEP) respectively.

Four years as Corporate Affairs Executive at MTN Group, the largest and most diverse mobile telecommunications company in Africa, exposed her to executive leadership in the private sector at home and on the continent, and the challenges of creating a human rights culture in business. Ethical leadership and governance, social justice and sustainable development are central to her life and work.

WE ARE NELSON MANDELA UNIVERSITY

As a socially embedded African university in the service of society, we offer a range of life-changing educational experiences, impactful research and innovation, and transformative engagement.

These academic core missions are rooted in and informed by recent milestones in the University's history, such as the 2017 name change to Nelson Mandela University, the Vice-Chancellor's listening campaign, inaugural and Advancing Mandela addresses, and a transversal organisational redesign process.

We offer quality higher education to nearly 32 000 students across seven campuses, making us the largest university in the Eastern and Southern Cape.

What we offer

Nelson Mandela University is a comprehensive university that offers both general formative and professionally orientated academic programmes from certificate to doctoral level.

We have a strong track record in both fundamental and applied research, working extensively in partnership with business, industry, government, and civil society. The institution has 500 study programmes across seven faculties that are

internationally recognised and accredited by the relevant professional bodies. State-of-the-art IT services include WiFi connectivity across all campuses and in numerous off-campus facilities, as well as advanced technological resources and digital aids geared to effective in-person and blended modes of learning and teaching.

Along with a first-class academic education, Nelson Mandela University provides students with a vibrant student life beyond the classroom.

Our campuses

Our seven campuses have a large, ever-increasing footprint, with six in Gqeberha and one in George.

Of these, four are in Summerstrand, one in Bird Street in Central, and one in Missionvale. Our North and South campuses in Summerstrand are located on an 840-hectare private nature reserve.

Our George Campus is on the Garden Route, midway between Nelson Mandela Bay and Cape Town. Set at the foot of the Outeniqua Mountains, our "sustainability" campus is where our ecological footprint meets business acumen for a sustainable future.



FAST FACTS

7 **CAMPUSES**
North, South, Ocean Sciences, Second Avenue (in Summerstrand) Missionvale (Missionvale), Bird Street (Central), George (George Campus in the Garden Route)



379
PROGRAMMES
(From certificate through to doctoral qualifications)

7 **FACULTIES**
(Business and Economic Sciences; Education; Engineering, the Built Environment and Technology; Health Sciences; Humanities; Law and Science)



32 320
ENROLLED STUDENTS

6 **INSTITUTIONAL RESEARCH THEMES**



2 255
PERMANENT EMPLOYEES

STRATEGIC FOCUS AREAS

 **1 400**
INTERNATIONAL STUDENTS



60
DIFFERENT COUNTRIES

REASONS TO BE PROUD

Various ground-breaking projects, awards and achievements have given Nelson Mandela University and its staff and students reason to be proud, some of which are included below:

Winning designs

Architecture student **Luzuko Funda** won the annual national 2022 Corobrik Student Architecture Awards. He is the fourth winner from Mandela University over the past five years, keeping the tradition strong.



Top SAICA results

Nelson Mandela University accounting graduates achieved an overall 93% pass rate in the South African Institute of

Chartered Accountants (SAICA) Initial Test of Competence (ITC) this year.

Written after the University's formal studies, the ITC examination is the first of two professional examinations required for qualification as a Chartered Accountant, and Mandela University graduates performed well above the national average pass rate of 75%.

Additionally, two students, **Melissa Bezuidenhout** and **Kayla Bester**, finished third and fifth respectively nationally, while another two graduates also attained an honours pass (75% or more).

"We are extremely proud of the class of 2022. These results add to the already impressive track record of the Department. We have consistently been placed among the top performing universities. We have had 11 candidates pass with honours and seven candidates placing in the top 10 in the past seven years," said head of Accounting Professor Amanda Strydom.

Spreading the Mandela brand

Social media is positively extending and entrenching the Mandela University brand as confirmed by the University's success as a winner of the **International Digital Communication Awards**.

Sharing the joys of this year's Autumn Graduation season, the institution's Communication and Marketing department substantially exposed the Mandela University brand into Africa and internationally to win the small budget campaign category.

Its social media posts were displayed over 15.5 million times to users (up by 112%) and generated over 1.9 million engagements (up by 348%) compared with 2022. Its video views grew by 678% to over 4.1 million.

Three of its Facebook videos had over 1.5 million impressions, with one reaching 4.7 million impressions and over 900 000 engagements, while one on Instagram had over a million impressions.



Science achievers

Professor Janine Adams (left image) and doctoral student **Carla Dodd** (right image) both received recognition for their groundbreaking water research at the South African Women in Science Awards ceremony.



Professor Adams, who holds the DSI/NRF Research Chair for Shallow Water Ecosystems and is deputy director for the Institute for Coastal and Marine Research, is the winner of the DSI Distinguished Woman Researcher in Natural Science and Engineering.

Carla, a doctoral student in Geosciences, was awarded the DSI-Ndoni Mccunu Fellowship: Doctoral Award for her pioneering research on groundwater resources.

A medical school making a difference

Our programme to train MBChB graduates in Gqeberha is the first and only medical school in the western part of the province. Intentionally anchored in Missionvale to engender urban renewal and regeneration, it is set to make a tangible contribution to building capacity for accessible healthcare service delivery through its emphasis on primary health care.



Ocean Sciences: Growing the blue economy

Nelson Mandela University has embraced the United Nations declaration of the Decade of Ocean Science for Sustainable Development from 2021 to 2030.

With South Africa's coastline spanning approximately 3000km and bordered by three oceans, the University is perfectly placed to contribute to and benefit from this blue decade.

Nelson Mandela University has developed a range of ocean sciences education and training, research, innovation and engagement programmes to support the blue economy nationally and on the African continent. Nelson Mandela University was ranked as the top institution in South Africa for UN Sustainable Development Goal Four: Life Below Water in 2022.



Great support for Oxford scholar

Luan Staphorst, a Research Associate with Nelson Mandela University's Chair for Critical Studies in Higher Education Transformation (CriSHET) and University alumnus, has been awarded four scholarships to support his doctoral studies at the University of Oxford.

The scholarships are from the Clarendon Fund (Oxford's most prestigious internal scholarship programme), the United Kingdom's Arts and Humanities Research Council (the UK's most competitive national funding scheme), the Lincoln College Kingsgate Fund, and the Oppenheimer Memorial Trust (one of South Africa's most competitive funding mechanisms for international study).

Besides Oxford, Luan applied to various other university programmes in the UK and the USA, and he was offered a MacCracken Fellowship to study at New York University and the Smuts Cambridge International Scholarship to study at the University of Cambridge – both of which are fully funded scholarships.

He decided to return to Oxford, however, primarily to work with Prof Elleke Boehmer, one of the leading thinkers in postcolonial theory and world literature.



Our overarching ocean sciences strategy is underpinned by the following objectives:

- Advancing inter- and transdisciplinary synergies to promote learning, teaching, research, innovation and engagement “where art meets science”
- Promoting social, economic, and environmental sustainability
- Developing and maintaining mutually beneficial and collaborative partnerships with civil society, industry, government, and other postschool educational institutions nationally and internationally
- Positioning the University to be a destination of choice for ocean sciences nationally and on the African continent.

See more on [Ocean Sciences](#) at Mandela.



Science Centre a multi-purpose gift for all

The addition of a large dome to the skyline at Nelson Mandela University signals another leap forward in the transformation journey of this institution in the service of society.

The iconic new Digital Dome on the Ocean Science Campus, completed in July 2023, will not only serve the University's academic project but also the wider Gqeberha and Eastern Cape community. Its multi-purpose, immersive functions will be a major boost to everyone's understanding of science and other areas of study.

"Our Digital Dome or Science Centre as it is also called, will be an exciting intermediary between our university, our partners and the public ... It will be a dream to see it serving as a platform for our scientists and researchers to share their work, explain complex concepts, and foster dialogue and knowledge sharing with visitors," said Deputy Vice-Chancellor: Research, Innovation and Internationalisation Dr Thandi Mgwebi.

The Digital Dome is the most sophisticated in the country to date, with only two other comparable counterparts at Iziko South African Museum in Cape Town and on Naval Hill in Bloemfontein.

Ocean Sciences awards

Nelson Mandela University has won five national and international infrastructure awards for the new extensions to its Ocean Sciences Campus in Summerstrand.

The University's new triple-storey E Block with its aesthetically appealing, dedicated research spaces, specialised laboratories and signature dive tank, received high praise from judges in four competitions recently.

Infrastructure services and space optimisation deputy director Graham Gouws said as the only higher education institution in SA with a dedicated ocean sciences campus, Mandela University was home to a range of ocean sciences education and training, research, innovation and engagement programmes.

"These awards speak to our commitment to advance our scientific contribution to ocean sciences globally by developing fit-for-purpose spaces that meet this need," Gouws said.

The new R54m wing built from department of education funding is part of the University's commitment to the United Nations' sustainability development goals relating to the sea.





International FameLab Science winner

Dr Nehemiah Latolla, a phytochemist and researcher at the Nelson Mandela University, is an International FameLab 2022 competition winner.

In his three-minute talk, he shared the bittersweet memory of homecare health, having to drink a mixture of *Aloe Ferox* in magnesium salt while growing up. It was this experience that piqued his interest in the chemistry of plants. His current research at Nelson Mandela University looks for new, cost-effective, less-toxic medications to treat diabetes.

National FameLab winners from around the world competed in the International Final, an online event streamed live on YouTube on Friday 25 November. Contestants came from Germany, Thailand, Italy, Switzerland, The Czech Republic and of course, South Africa.

New Chair in Automotive Engineering

In a major boost for motor industry research, innovation and development, Nelson Mandela University launched a new AIDC-EC Chair in Automotive Engineering.

The Automotive Industry Development Centre – Eastern Cape (AIDC-EC) endowed the new research chair in the Faculty of Engineering, the Built Environment and Technology for an initial three years, backing it with a financial investment of R14-million to further strengthen the University's position as a centre of excellence in the automotive industry.

In addition to the AIDC-EC Automotive Chair, the new agreement makes funding provision for postgraduate bursaries and provides support for undergraduate capstone projects in the School of Engineering.



Pioneering inclusive education with coding programme for the digital age

Mandela University is at the forefront of inclusive education and coding through its pioneering initiative, the Tangible Africa programme, which began in 2017 as a mobile app developed at the institution.

Computer Science student Byron Batteson's honours project has morphed into today's programme that transforming the educational landscape by empowering disadvantaged students to take up successful careers in coding.

In today's increasingly digital world, coding plays a central role in our lives, with the demand for online solutions, applications, and digital innovations skyrocketing. As the digital age advances, the role of software developers in shaping our future becomes indispensable.

Professor Jean Greyling, Head of the Department of Computing Sciences at Nelson Mandela University and the Tangible Africa Programme Founder, says: "While technologies like ChatGPT and AI are enhancing productivity, they will never replace the problem-solving abilities of skilled software developers."

He says software development is essential for a nation's innovation capacity, with many South African software companies exporting their products to Europe and America.

However, South Africa faces several challenges in promoting coding education. Over 16 000 schools lack computer labs, and many of the existing labs are non-functional. The shortage of qualified coding teachers compounds the issue, and there is a diminishing pool of matric learners with strong mathematical abilities - a critical prerequisite for coding.

Mandela University, through its Tangible Africa Programme, is addressing these challenges head-on. Launched in 2017, this initiative uses innovative methods to teach coding concepts, even in settings without access to computers, the internet, or

electricity. Learners work collaboratively, solving challenges using physical puzzle pieces, thereby developing critical problem-solving skills.

The Tangible Africa Programme focuses on specific domains such as game poaching (RANGERS) and marine themes (BOATS), making coding education more engaging and accessible to diverse groups of students.

More than 100 000 learners benefitted from the programme, thanks to the collaboration with the Leva Foundation to address educational gaps and foster job creation and entrepreneurship.

"We are changing the African narrative. A product made in Africa for Africa is now being used in Africa and beyond," says Prof Greyling.



OUR HISTORY

The former institution was formed in 2005 as a result of the merging of the PE Technikon, the University of Port Elizabeth and the Port Elizabeth campus of Vista University (Vista PE).

The PE Technikon has its roots in the country's oldest art school, the PE Art School founded in 1882; the University of Port Elizabeth (UPE), the country's first dual-medium residential university, came into being on 31 January 1964; and the Port Elizabeth campus of Vista university, which opened up access to higher education for disadvantaged students.

The union of these institutions was part of countrywide restructuring of higher education, intended to deliver a

more equitable and efficient system to meet the needs of South Africa, the continent and the world in the 21st century. Founded on more than a century of quality higher education, Nelson Mandela University nurtures innovation, fosters creativity, embraces technology and develops people to meet the challenges of tomorrow.

Today, Nelson Mandela University is the only university in the world to carry the name of Nelson Rolihlahla Mandela, is a sought-after educational destination and the most diverse university in South Africa.

A full history of the institution is available on our website, along with insights into our namesake.



DOCTOR OF INDUSTRIAL PSYCHOLOGY (HONORIS CAUSA)

Professor Noel Chabani Manganyi

Much published author and distinguished psychologist, Noel Chabani Manganyi, was born in Louis Trichardt in the Limpopo Province.

After finishing school, he enrolled for a Bachelor of Arts degree at the University of South Africa (UNISA) where he graduated in 1962. He completed his Honours in Psychology in 1964, master's in 1968 and his doctorate in 1970.

He held an internship at Baragwanath Hospital, which formed part of his doctoral studies, and was later appointed as a Clinical Psychologist at the Hospital for a period of three years.

From 1973 until 1975, he took up a post-doctoral fellowship at Yale University's School of Medicine in the USA. Returning to South Africa in 1976, Professor Manganyi took up a professorship at the then University of the Transkei, establishing the University's Department of Psychology, where he served as its first Chair.

The Wits African Studies Institute appointed him as a Senior Research Fellow and Visiting Professor in 1980 and this was where he remained for 10 years, producing some of his most important works, and laying the foundation for his subsequent research. During this period, he continued with his clinical practice on a part-time basis and returned to Yale in 1985 to serve as a visiting professor once again.

Moving into higher education administration in the early 90s, Prof Manganyi was appointed Vice-Chancellor and Principal of the then University of the North, now the University of Limpopo. After the election of a fully democratic government in 1994, he became Director General in the Department of Education where he remained until 1999, when he was appointed Advisor to the Vice-Chancellor of the University of Pretoria. He became Vice-Principal of the same university in 2003, serving until 2006.

He is a prolific writer and has published numerous works during his career – some that stand out are: *Being-black-in-the-world* (1973), *Looking through the keyhole: Dissenting essays on the black experience* (1981), *Political violence*

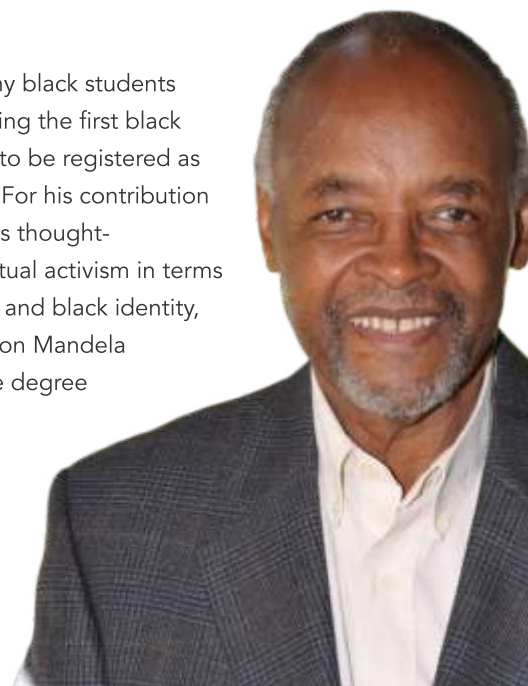
and the struggle in South Africa (1990), *On becoming a democracy: Transition and transformation in South African society* (2004) and *Apartheid and the making of a black psychologist* (2016). In 2018, he was awarded the Academy of Science of South Africa (ASSAf) Humanities Book Award for his memoir on the making of a black psychologist.

In the latter stage of his writing career, he studied the artist Gerard Sekoto – an unknown artist at the time. His works *A black man called Sekoto* and *Gerard Sekoto: "I am an African"* are both impressive works about the artist who is now one of the most sought-after in South Africa.

In his research and writings, Prof Manganyi highlights the impact of systemic racism on the experiences and identities of black people. He not only laid a foundation for the Black Consciousness Movement but also highlighted the need for curriculum changes to address social and identity issues.

Prof Manganyi is a Fellow of the Psychological Society of South Africa – an award made in 2012 in recognition of a lifetime dedicated to Psychology in our country. Through his research and publications, he challenged the field of psychology, to appropriately address mental health issues and make mental health services more available to all South Africans.

He brings hope to many black students through his story of being the first black person in South Africa to be registered as a clinical psychologist. For his contribution to education and for his thought-leadership and intellectual activism in terms of black consciousness and black identity, it is an honour for Nelson Mandela University to confer the degree of Doctor of Industrial Psychology (honoris causa) on **Professor Noel Chabani Manganyi**.



DOCTOR OF LITERATURE (HONORIS CAUSA)

Mandla Langa

Cultural activist and writer, Mandla Langa, was born on 31 March 1950 in Stanger, KwaZulu-Natal and grew up in KwaMashu, North of Durban.

One of nine children, he matriculated from Sibonelo High School in Durban and went on to study towards a bachelor's degree in English and Philosophy at the University of Fort Hare. During his time at university, he joined the South African Students' Organisation (SASO) in 1972 where he was very actively involved. He was among the hundreds of students expelled from UFH for political activism. Subsequently, he worked for two years as a teacher at Nhlakanipho High School in KwaMashu.

In 1974, he was appointed Cultural Director of SASO, where he remained until his arrest in 1976 for attempting to leave the country without a permit during the Soweto uprising. The outbreak of the uprising, and the leadership role he played in the Black Consciousness-aligned student organisation, made Langa a target of the security forces. He served 101 days in jail.

In prison, he continued to improve his writing skills and after serving his sentence, he fled to Botswana, marking the start of his life in exile. He spent time in Lesotho, Angola (where he took part in Umkhonto we Sizwe military training camps), Mozambique, Zambia, Hungary as well as the UK, where he served as the ANC's cultural attaché.

After writing numerous poems, he began writing prose with his story "The Dead Men Who Lost Their Bones" winning him the prize of being published in Drum magazine in 1980. This prompted his literary evolution to novel writing and in 1991, he became the first South African to be awarded an Arts Council of Great Britain Bursary for Creative Writing.

His published books include *Tenderness of Blood* (1987), *A*

Rainbow on a Paper Sky (1989), *The Naked Song and Other Stories* (1997), *The Memory of Stones* (2000), and *The Lost Colours of the Chameleon* (2008), which won him the 2009 Commonwealth Writers Prize for the Best Book in Africa.

Langa was brought in to complete the follow-up volume to Nelson Mandela's 1994 autobiography, *Long Walk to Freedom*. Based on Mandela's handwritten notes and a draft left unfinished when Mandela died in 2013, along with archive material and interviews, *Dare Not Linger: The Presidential Years*, was published in 2017.

Langa's diverse work includes penning an opera, *Milestones*, with music composed by jazz musician Hugh Masekela, which featured at the Standard Bank Arts Festival in Makanda (Grahamstown).

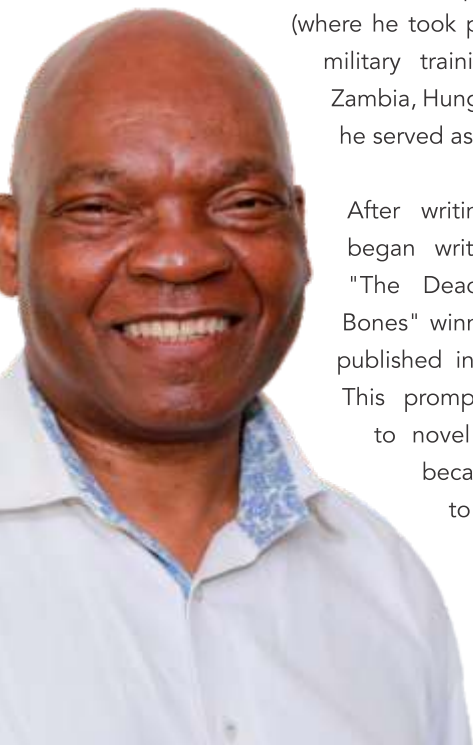
Some of the positions he has held, include ANC Cultural Representative, Chairperson of the first council of the Independent Communications Authority of South Africa (ICASA), board member of the SABC and Chairman of the Board at MultiChoice South Africa. He has served on the board of Primedia and sits on the boards of Datapost and Medu Arts & Letters.

In 2020, he received his Master of Arts in Creative Writing from Wits University. In 2022, he won Best Fiction Novel Award for *The Lost Language of the Soul* from the National Institute For the Humanities and Social Sciences.

Among his many honours, was receiving South Africa's National Order of Ikhamanga (Silver) for literary, journalistic and cultural achievements.

He is now South Africa's High Commissioner in Yaounde, Cameroon.

As one of our country's most highly respected cultural activists and novelists and for being among the first people behind the idea of using culture as an instrument to defy apartheid and to build support for the South African liberation struggle, it is an honour for Nelson Mandela University to confer the degree of Doctor of Literature (honoris causa) on **Mandla Langa**.



DOCTOR OF PHILOSOPHY IN INFORMATION TECHNOLOGY (HONORIS CAUSA)

Nkemdilim Uwaje Begho

Born in Lagos, Nigeria, Nkemdilim Uwaje Begho is a global speaker and digital transformation expert. She attended the German International School in Lagos before moving to Germany to further her studies, and in 2006, graduated with a BSc. Hons. in Bioinformatics from Ludwig-Maximilians University (LMU) & Technical University Munich (TUM) in Munich.

While studying, she was an Application Developer for the Max Planck Institute for Psychiatric Research, Channel Manager/Head of Marketing at Leapsoft Nigeria Ltd. and then a Bioinformatics Consultant and Software Developer for Affectis Pharmaceuticals – a position she held until December 2009.

After completing her studies, she was appointed Business Development Manager for Specialised Outsourcing Nigeria Ltd. In 2007, she served as the Market Evaluation Officer in the Commercial Section of the Austrian Embassy of Nigeria. The following year, her entrepreneurial journey began when she became the Managing Director and CEO of Future Software Resources Ltd. - a business initially incorporated by her father, Christopher Uwaje, Nigeria's foremost IT policy maker. It was his intention for her to take the reins when she was ready. In 2008, she rebranded the company, refocusing it towards web development, online solutions development, eLearning and IT security.

For Nkem, the rationale for becoming an entrepreneur was fuelled by the desire to work on projects that fulfil her and the ability to create, innovate and be part of shaping the technology ecosystem in Nigeria and Pan-Africa, creating employment and growing as a leader and visionary, making a positive contribution to the Nigerian digital space.

A firm believer in mentorship, Nkem regularly volunteers for mentoring and empowerment programmes where she shares her technology and digital strategy knowledge, alongside her business and life experience. She is also the co-founder of The Bake for Change Development Foundation, an NGO focused on empowering street children through skills acquisition, vocational training and educational scholarships. In 2019, she was appointed as a Board member for Stanbic IBTC Holdings PLC, a financial service group listed on the Nigerian Stock exchange and subsidiary of Standard Bank, where she currently chairs the board IT Committee. She serves as a

board member of the Society for Corporate Governance in Nigeria, the Lagos State Research and Innovation Council (LASRIC), The BudgIT Foundation, Global Leaders USA and Novare Fund Manager Ltd.

Nkemdilim also served in the leadership of the Digital Economy Policy group of the Nigerian Economic Summit Group NESG, which is focused on influencing and advocating for policy development that creates an enabling environment. Among her numerous accolades, she received an Honour Award from the National Youth Service Corps (NYSC) in 2007, was included on the Forbes List of Top Ten Female Tech Founders in Africa in 2014, a Titans of Tech Award, Nigeria in 2016 and in the same year, was named as one of the 100 Lionesses of Africa. In 2019, Nkem was selected as one of the Obama Africa leaders providing leadership to change the continent "one day at a time" as well as inclusion on the list of Top 100 Most Influential People of African Descent. In 2020, she was named among the Top 100 Leading Ladies in Africa.

Her entrepreneurial background, involvement in the global and pan-African technology landscape and a focus on building the technology ecosystem through enabling policy development, investing, education and mentoring, has had a substantial impact on her own country and the African continent as a whole.

She executes her role as a technology influencer with integrity and uses her position and influence to create real change in legislation, communities and in the lives of the young people and women her initiatives serve. For her leadership and for dedicating her career to serving her community and more specifically the African continent, it is an honour for Nelson Mandela University to confer the degree of Doctor of Philosophy (honoris causa) on **Nkemdilim Uwaje Begho**.



DOCTOR OF LAWS (HONORIS CAUSA)

Justice Narandran Jody Kollapen

Respected human rights lawyer, Justice Narandran Jody Kollapen, was born on 20 May 1957 in Pretoria.

After matriculating at Laudium Secondary School in 1974, he registered for a law degree at the University of Durban-Westville, later transferring to the University of the Witwatersrand in Johannesburg where, in 1978, he obtained his Baccalaureus Procuratoris (BProc) and in 1981 his Baccalaureus Legum (LLB).

After completing his articles, Justice Kollapen was admitted as an attorney in 1982 and, with only R200 capital, opened his own practice.

Each day, he took a bus trip into the city, and was allocated two seats; the second seat was occupied by fellow working-class commuters who were given advice by the attorney – at no cost.

In the early 90s, he joined Lawyers for Human Rights, being appointed as National Projects Director and later, National Director.

As a human rights lawyer, he was involved in and supported lawyers in a number of high-profile cases such as the trial of the Sharpeville Six, the Delmas Treason Trial, and the South African Medical and Dental Council's case against the government-employed medical practitioners who failed to appropriately diagnose and treat anti-Apartheid activist Steve Biko, who died in police custody in 1977. During this time, he also served as a member of the selection panel that chose the commissioners for the Truth and Reconciliation Commission.

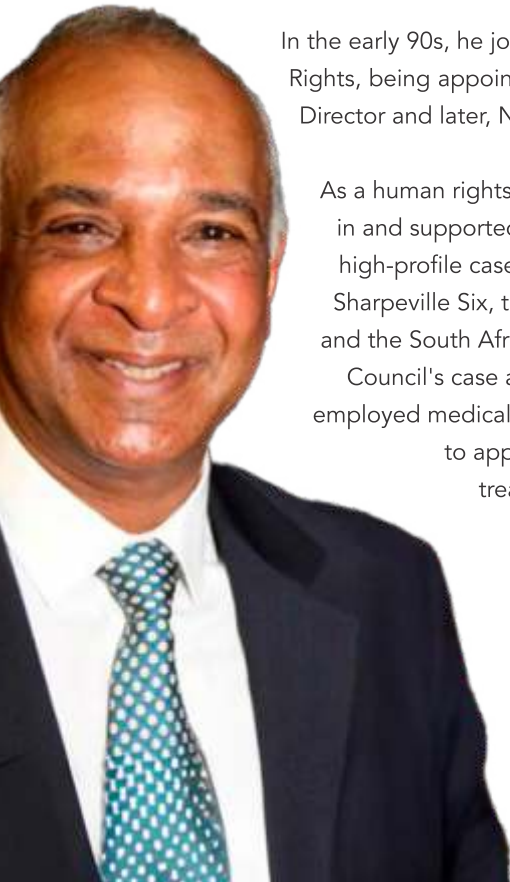
In December 1996, Justice Kollapen was appointed as a commissioner of the South African Human Rights Commission, where he spent approximately 13 years, seven of them as chairperson.

In May 2011, he was appointed as judge of the Gauteng Division of the High Court in Pretoria, after having served as an acting judge in the previous year. Justice Kollapen also served as the chairperson of the South African Law Reform Commission from 2016 until October 2023. On 24 December 2021, Justice Kollapen was appointed by President Cyril Ramaphosa to the country's Constitutional Court.

He has held various positions in organisations and institutions committed to the protection and promotion of human rights. These include the Chairperson of the Legal Resources Trust, the Centre for the Study of Violence and Reconciliation, the Institute for Democratic Alternatives in South Africa (IDASA) and the London-based international human rights organisation, Article 19.

Numerous awards have been bestowed on him, including an honorary doctorate from the Durban University of Technology, a human rights award from the Turquoise Harmony Institute Award, a lifetime achievement award by the Congress of Business and Economics and a Citizens Excellence Award in the field of human rights by the Executive Mayor of the City of Tshwane.

For his commitment to justice and his contribution to the development of our law in the area of justice and human rights advocacy, it is an honour for Nelson Mandela University to confer the degree of Doctor of Laws (honoris causa) on **Justice Narandran Jody Kollapen**.



Office-Bearers of the University

CHANCELLOR

Dr GJ Fraser-Moleketi: MAdmin (UP), DPhil (*honoris causa*) (Mandela University)

CHAIRPERSON OF COUNCIL

Ambassador NP January-Bardill: BA, Cert in Ed (UBL), MA (Essex University, UK), Dip HR Management (Damelin)
Doctor of Laws (*honoris causa*) (Glasgow Caledonian University)

VICE-CHANCELLOR

Prof SW Muthwa: BA(SW) (Fort Hare), BA(SW) Hons (Wits), MSc, PhD (London University, UK)

DEPUTY VICE-CHANCELLOR: ENGAGEMENT AND TRANSFORMATION

Prof A Keet: BA, HDE, BEd, MEd (UWC), PhD (Edu Manag, Law and Policy) (UP)

DEPUTY VICE-CHANCELLOR: LEARNING AND TEACHING

Dr SF Moeng: BA, HDE, BEdHons (UPE), MSc (St Cloud State University, USA), DEd (NMMU)

DEPUTY VICE-CHANCELLOR: PEOPLE AND OPERATIONS

Mr LP Jack: NDip (PMA)(EC Technikon), BTech (PM)(PET), BAPhil (US), MCom (UKZN)

DEPUTY VICE-CHANCELLOR: RESEARCH, INNOVATION AND INTERNATIONALISATION

Dr T Mgwebi: BSc, BScHons, MSc, HDipEd (Unitra); PhD (UCT); PGDeg (Tertiary Education Management) (University of Melbourne, Australia)

DEAN OF STUDENTS

Dr BK Sebake (Acting): NDip (PM) TUT, BTech (PM) (UNISA), Masters (PM) (TUT), Doctorate (Public Administration Monitoring and Evaluation) (TUT)

EXECUTIVE DIRECTOR: FINANCE

Mr MR Monaghan: BCom (UPE), BComHons (UNISA), Professional Accountant (SA)

REGISTRAR

Mr EB De Koker: BA (UCT), BAHons (UNISA), MA (Pub Admin) (University of Warwick, UK)

PRESIDENT OF ALUMNI ASSOCIATION

Mr S Hlwatika: LLB (NMMU), PGDip (Labour Law Practice), LLM (Labour Law) (Mandela University)



Executive Deans of Faculties

BUSINESS AND ECONOMIC SCIENCES

Prof HR Lloyd: BCom, BComHons, MCom, DCom (UPE)

EDUCATION

Dr T Morar (Acting): PTD (Dower College), BA (UPE), BEd Hons (RU), MEd (Leeds, UK), BCom (Vista), DEd (Curtin, Australia)

ENGINEERING, THE BUILT ENVIRONMENT AND TECHNOLOGY

Prof M Sheldon: BTech BA, DEng (Chemical Engineering) (CPUT), Pr Tech Eng

HEALTH SCIENCES

Prof Z Zingela: MBChB (Natal), FCPsych (SA), MMed (UP), PhD Psychology (Mandela University)

HUMANITIES

Prof P Maseko: BA, BAHons (UWC), MA, PhD, PGDip in Higher Ed (RU)

LAW

Dr L Biggs: BCom (Law), LLB (UPE), LLM (Labour Law) (*cum laude*), LLD (NMMU)

SCIENCE

Prof A Muronga: BSc, UED (UNIVEN), BScHons, MSc (UCT), PhD (University of Minnesota, USA)

DEAN OF LEARNING AND TEACHING

Dr P Kota-Nyati: BA (Vista), BAHons, MA Couns Psych (UPE), DPhil (Mandela University)

Order of Proceedings

Entrance of Academic Procession

Moment of Silence

Constitution of Congregation and Welcome

Dr G Fraser-Moleketi (Chancellor)

Performance

Arts, Culture and Heritage Ensemble

Conferring of Honorary Doctoral Degrees

Dr G Fraser-Moleketi (Chancellor)

Awarding of Qualifications

Dr G Fraser-Moleketi (Chancellor)

Message of Congratulations and Dissolution of Congregation

Dr G Fraser-Moleketi (Chancellor)

National Anthem

(The congregation is requested to stand for the singing of the National Anthem)

Departure of Academic Procession

(The congregation is requested to remain standing until the academic procession has left the hall)

* The words *Cum Laude* indicate that the diploma or degree is awarded with distinction to the candidate/s.



FACULTY OF LAW

MASTER OF LAWS (COURSEWORK)

GROOTBOOM, Helenique Janielle - **Cum Laude**

(Criminal Justice)

Title of treatise:

THE REQUIREMENT OF A FIXED RESIDENTIAL ADDRESS FOR BAIL: UNFAIR DISCRIMINATION ON THE BASIS OF POVERTY

Supervisor: Prof JC Botha

MAFUYA, Aphelele Viwe

(Labour Law)

Title of treatise:

INHERENT REQUIREMENT OF THE JOB AS A DEFENCE TO UNFAIR DISCRIMINATION

Supervisor: Dr JK Gathongo

MATABATA, Edmyrach

(Criminal Justice)

Title of treatise:

SENTENCING IN TERMS OF THE DOCTRINE OF COMMON PURPOSE

Supervisor: Prof D Erasmus

NDABENI, Ntombesine

Title of treatise:

THE REGULATION OF FIXED TERM EMPLOYMENT

Supervisor: Dr JK Gathongo

MASTER OF LAWS (RESEARCH)

NHLEMA, Kudzaishe Daniel

(Mercantile Law)

Title of dissertation:

THE REGULATION OF SOCIAL MEDIA PRACTICES IN THE WORKPLACE

Supervisor: Dr L Biggs

FACULTY OF ENGINEERING, THE BUILT ENVIRONMENT AND TECHNOLOGY

MASTER OF ENGINEERING (RESEARCH)

MPURWANA, Kabelo Bulali

(Mechanical)

Title of dissertation:

AUTONOMOUS CONTROL OF A LIGHT AIRCRAFT FOR UNMANNED OPERATIONS

Supervisor: Prof RL Phillips

MTAKATI, Sibulele Morgen

(Electrical)

Title of dissertation:

CURRENT HARMONIC COMPENSATION OF NONLINEAR LOADS IN A THREE PHASE, FOUR WIRE SYSTEM

Supervisor: Prof PA Freere

Co-supervisor: Dr K Reddy

SILWAL, Kimon

(Electrical)

Title of dissertation:

DYNAMIC CONTROL OF A WIND TURBINE AT HIGH WIND SPEEDS IN STALL

Supervisor: Prof PA Freere

Co-supervisor: Dr K Reddy

TSOSANE, Moeketsi Goodwill

(Electrical)

Title of dissertation:

IMPACT OF GRID CONNECTED INVERTER FILTERS ON LV NETWORKS

Supervisor: Prof PA Freere

Co-supervisor: Mr AG Roberts

Co-supervisor: Dr K Reddy

MASTER OF ENGINEERING IN MECHATRONICS (RESEARCH)

MOMBERG, Garion

Title of dissertation:

ENHANCING THE ACCURACY OF A CNC ENGRAVER USING ARTIFICIAL INTELLIGENCE AND THEORETICAL MODELLING TECHNIQUES

Supervisor: Prof IA Gorchach

MASTER OF INFORMATION TECHNOLOGY (RESEARCH)

CHIZEMA, Tinashe Roy

Title of dissertation:

AN ICT FRAMEWORK FOR CLIMATE CHANGE MANAGEMENT AND MONITORING

Supervisor: Prof D van Greunen



MAHABENI, Siyamthanda

Title of dissertation:

GUIDELINES FOR INTEGRATING SECURITY TESTING INTO THE AGILE DEVELOPMENT METHODOLOGY FOR WEB APPLICATIONS: A CASE STUDY

Supervisor: Prof LA Fletcher

MKHWANAZI, Dephney Thulisile - **Cum Laude**

Title of dissertation:

CYBERSECURITY POLICY GUIDELINES FOR DIGITALISATION IN SOUTH AFRICA: A GOVERNMENT POLICY PERSPECTIVE

Supervisor: Prof LA Fletcher

NGWENYA, Zolile Mthulisi Lebone

Title of dissertation:

A DEVELOPMENT FRAMEWORK FOR ADDRESSING CROSS SITE SCRIPTING VULNERABILITIES IN MOODLE

Supervisor: Prof LA Fletcher

WATAMA, Cleopas Nhau Takudzwa

Title of dissertation:

CHANGE MANAGEMENT IN DIGITAL HEALTH – HMS² ELECTRONIC MEDICAL RECORD (EMR) SYSTEM IMPLEMENTATION IN PUBLIC HEALTH CARE FACILITIES

Supervisor: Prof D van Greunen

MASTER OF PHILOSOPHY IN INFORMATION TECHNOLOGY GOVERNANCE (COURSEWORK)

SONCASA, Lulamile Dean

Title of treatise:

A STRATEGY FOR THE IMPLEMENTATION OF EFFECTIVE IT SECURITY CONTROLS WITHIN LOCAL GOVERNMENT

Supervisor: Mr DT Fredericks

MASTER OF SCIENCE IN CONSTRUCTION MANAGEMENT (RESEARCH)

KASHE, Malik Mncedi

Title of dissertation:

THE ROLE OF AFFORDABLE HOUSING IN URBAN RENEWAL OF NELSON MANDELA BAY

Supervisor: Prof SL Mbanga
Co-supervisor: Dr O Ojo-Fajuru

MTETO, Thandolwethu

Title of dissertation:

SOLID WASTE MANAGEMENT AND LOCAL ECONOMIC DEVELOPMENT: A CASE OF EKUPHUMLENI TOWNSHIP IN NDLAMBE MUNICIPALITY

Supervisor: Prof SL Mbanga
Co-supervisor: Dr AA Adeniran

RAMOKGOPA, Mogale Jimmy

Title of dissertation:

THE ADOPTION AND EFFECTIVENESS OF MOBILE APPLICATIONS ON SOUTH AFRICAN CONSTRUCTION SITES

Supervisor: Prof JJ Smallwood

Co-supervisor: Mr CJ Allen

MASTER OF SCIENCE IN THE BUILT ENVIRONMENT (COURSEWORK)

DILINGA, Pumla

(Facilities Management)

Title of treatise:

EFFICACY OF FACILITIES MANAGEMENT IN EMPLOYEE PERFORMANCE IN THE WORKPLACE: A CASE OF MADIBENG LOCAL MUNICIPALITY

Supervisor: Dr AA Adeniran

Co-supervisor: Ms E Ayesu-Koranteng

DUZE, Fezekile

(Project Management)

Title of treatise:

CHALLENGES FACED BY CIVIL ENGINEERS AS PROJECT MANAGERS

Supervisor: Prof GJ Crafford

Co-supervisor: Mr JV van der Merwe

MAGO, Hannah Tsitsi

(Property Economics and Valuation)

Title of treatise:

THE IMPACT OF TECHNOLOGY ADOPTION ON PROPERTY VALUATION IN THE RESIDENTIAL PROPERTY MARKET IN SOUTH AFRICA

Supervisor: Dr B Chigara

MANGA, Monde

(Project Management)

Title of treatise:

VALUE FOR MONEY IN THE EASTERN CAPE'S DEPARTMENT OF TRANSPORT – EVALUATING RESOURCE ALLOCATION AGAINST PRODUCTIVITY

Supervisor: Prof FA Emuze

NDUNGANE, Buyisiwe

(Project Management)

Title of treatise:

A STRATEGIC APPROACH TOWARDS IMPROVING ADHERENCE TO MAINTENANCE REGULATIONS OF EASTERN CAPE PUBLIC SCHOOLS INFRASTRUCTURE STANDARDS

Supervisor: Prof GJ Crafford

NDYAMBOTI, Asanda
(Project Management)

Title of treatise:

UTILISATION OF TOTAL QUALITY MANAGEMENT PROCEDURES AT THE MEDUPI POWER STATION
PROJECT

Supervisor: Dr AA Adeniran

SOCENYWA, Gcobani Rodney
(Project Management)

Title of treatise:

CONFLICT MANAGEMENT BETWEEN MAIN AND SUBCONTRACTORS IN THE EASTERN CAPE

Supervisor: Prof GJ Crafford

FACULTY OF HEALTH SCIENCES

MASTER OF ARTS IN CLINICAL PSYCHOLOGY (COURSEWORK)

LEPHOTO, Thabo Leonard

Title of treatise:

A STUDY EXPLORING THE UNDERSTANDING AND INTERPRETATIONS OF SCHIZOPHRENIA AMONGST ZULU COMMUNITY MEMBERS, IN DURBAN, KWA-ZULU NATAL PROVINCE

Supervisor: Prof Y Ally

MATSOLO, Vuyiswa Felicia

Title of treatise:

THE COPING EXPERIENCES OF HEALTHCARE WORKERS DURING COVID-19 PANDEMIC IN THE NELSON MANDELA BAY HEALTH DISTRICT

Supervisor: Dr A Sandison

MOODLEY, Kerisha

Title of treatise:

A PSYCHOBIOGRAPHICAL STUDY OF DAISY DE MELKER

Supervisor: Dr K Navsaria

NTSAKA, Ayanda

Title of treatise:

THE INTIMATE RELATIONSHIPS OF XHOSA MEN FROM THE EAST LONDON AREA: PERCEPTIONS OF THE ROLE AND RESPONSIBILITIES

Supervisor: Dr A Sandison

VOLKER, Lauren Clare - **Cum Laude**

Title of treatise:

ISADORA DUNCAN: AN INSTRUMENTAL CASE STUDY

Supervisor: Prof L Stroud
Co-supervisor: Dr JH Cronje

MASTER OF ARTS IN COUNSELLING PSYCHOLOGY (COURSEWORK)

BAM, Zimkhitha Yolisa Nokubulela

Title of treatise:

A STUDY ON THE ISIXHOSA ELDER'S PERSPECTIVE ON MENTAL ILLNESS IN BUFFALO CITY MUNICIPALITY, EASTERN CAPE, SOUTH AFRICA

Supervisor: Prof Y Ally

MATUSHE, Masakhane

Title of treatise:

EXPERIENCES OF PSYCHOLOGICAL PRACTITIONERS WHEN WORKING WITH ISIXHOSA SPEAKING MINORS IN THE EASTERN CAPE

Supervisor: Dr JO August



MBATHA, Andiswa

Title of treatise:

*EXPLORING CULTURALLY ADAPTED PSYCHOLOGICAL INTERVENTIONS FOR MENTAL ILLNESS IN SOUTH AFRICA:
A SCOPING REVIEW*

Supervisor: Dr U de Klerk

NCAPAYI, Abongile

Title of treatise:

*EXPLORING THE PSYCHOLOGICAL AND EMOTIONAL UNDERSTANDING OF AMAGQIRHA WITHIN THE EASTERN
CAPE PROVINCE, SOUTH AFRICA*

Supervisor: Prof Y Ally

MASTER OF SCIENCE IN ENVIRONMENTAL HEALTH (RESEARCH)

MRWEBI, Sisanda Patricia

(Master of Science in Environmental Health)

Title of dissertation:

*ASSESSMENT OF KNOWLEDGE, ATTITUDES, PRACTICES AND THE PREVALENCE OF INTESTINAL
PARASITES IN SARAH BAARTMAN DISTRICT, EASTERN CAPE*

Supervisor: Prof PE Melariri

Co-supervisor: Ms K Eastwood

MASTER OF ARTS IN PSYCHOLOGY (RESEARCH)

TERBLANCHE, Anchen

Title of dissertation:

FOOD ADDICTION TREATMENT: A SYSTEMATIC REVIEW

Supervisor: Dr K Navsaria

MASTER OF NURSING (COURSEWORK)

SINXI, Sisanda

(Advanced Midwifery and Neonatal Nursing Science)

Title of treatise:

*TRADITIONAL BIRTH ATTENDANTS' PERCEPTIONS OF THEIR ROLE IN CARING FOR WOMEN DURING CHILDBIRTH
IN THE NYANDENI SUB-DISTRICT*

Supervisor: Dr AH du Plessis

Co-supervisor: Ms MV Kramer

MASTER OF NURSING (RESEARCH)

HALALA, Pfukani Symantha

Title of dissertation:

*KNOWLEDGE, ATTITUDES AND PRACTICES REGARDING SOCIAL MEDIA AS A TEACHING STRATEGY AT A PUBLIC
NURSING COLLEGE IN LIMPOPO PROVINCE*

Supervisor: Prof S Jardien-Baboo

Co-supervisor: Ms K Gerber

MWADIWA, Chiedza

Title of dissertation:

EXPERIENCES OF MOTHERS WHO ARE ON TUBERCULOSIS TREATMENT WHILE CARING FOR THEIR CHILDREN IN NELSON MANDELA BAY HEALTH DISTRICT

Supervisor: Dr DG Morton
Co-supervisor: Ms MV Kramer

MASTER OF SCIENCE (RESEARCH)

VAN DE VENTER, Ruben - **Cum Laude**

(General Health Sciences)

Title of dissertation:

EFFECTS OF SELECTED NATURAL FLAVONOIDS ON AN OPTIMIZED INSULIN RESISTANCE MODEL IN MYOTUBES AND HEPATOCYTES IN VITRO

Supervisor: Dr NS Dambuza
Co-supervisor: Prof J Bodenstein

MASTER OF TECHNOLOGY: ENVIRONMENTAL HEALTH (RESEARCH)

SHOTO, Khanyisa

Title of dissertation:

KNOWLEDGE, ATTITUDES AND PRACTICES OF MUNICIPAL WORKERS REGARDING OCCUPATIONAL HEALTH AND SAFETY IN THE GARDEN ROUTE DISTRICT MUNICIPALITY, WESTERN CAPE

Supervisor: Dr S Ramroop



FACULTY OF SCIENCE

MASTER OF COMMERCE (RESEARCH)

LUKE, Lamla Lonwabo Leadley - **Cum Laude**

(Computer Science and Information Systems)

Title of dissertation:

A DIGITAL TRANSFORMATION FRAMEWORK FOR MUNICIPALITIES IN THE EASTERN CAPE

Supervisor: Dr AV van der Hoogen

Co-supervisor: Prof AP Calitz

MASTER OF SCIENCE (RESEARCH)

BERKLAND, James Matthew

(Geology)

Title of dissertation:

*STATISTICAL ANALYSIS OF HYDROGEOCHEMICAL DATA FROM FRACTURED ROCK AQUIFERS AROUND
BEAUFORT WEST, SOUTH AFRICA*

Supervisor: Dr G Mahed

BOWMAKER FALCONER, Kezia Sabrina

(Zoology)

Title of dissertation:

*DIETARY ASSESSMENT OF CAPE GANNETS (MORUS CAPENSIS) AND AFRICAN PENGUINS (SPHENISCUS
DEMERSUS) IN ALGOA BAY USING MOLECULAR SCATOLOGY*

Supervisor: Dr MA Connan

Co-supervisor: Prof PA Pistorius

Co-supervisor: Prof S von der Heyden

DOS SANTOS, Natalie Aida - **Cum Laude**

(Zoology)

Title of dissertation:

*INSIGHTS INTO THE RELATIVE ABUNDANCE, DEMOGRAPHICS AND BEHAVIOUR OF SEA TURTLES ALONG THE
EAST COAST OF SOUTH AFRICA*

Supervisor: Prof R Nel

Co-supervisor: Dr D le Gouvello

MARITZ, Marius Johann - **Cum Laude**

(Chemistry)

Title of dissertation:

*ASYMMETRIC CATALYSIS: A COMBINED EXPERIMENTAL AND COMPUTATIONAL STUDY OF
HYDRIDOSPIROPHOSPHORANE LIGAND SYSTEMS FEATURING HALOGENATED MANDELIC ACIDS*

Supervisor: Dr R Betz

MPISANE, Khanyisa

(Botany)

Title of dissertation:

ASSESSING LAND DEGRADATION AND THE EFFECTIVENESS OF CALCRETE BONTVELD REHABILITATION IN A GRASSRIDGE PPC CEMENT MINING AREA USING MULTI-SENSOR REMOTELY SENSED DATA AND MACHINE LEARNING TECHNIQUES

Supervisor: Prof EE Campbell

Co-supervisor: Dr M Kganyago

NOMADOLO, Elizabeth Nomvuyo

(Chemistry)

Title of dissertation:

MECHANICAL RECYCLABILITY AND BIODEGRADATION OF BIOPOLYMERS, BIOPOLYMER BLENDS AND BIOCOMPOSITE IN NATURAL ENVIRONMENTAL CONDITIONS

Supervisor: Dr S Muniyasamy

Co-supervisor: Prof SP Hlangothi

SILIMA, Rudzani Faith

(Biological Oceanography)

Title of dissertation:

INVESTIGATING THE INTERANNUAL VARIABILITY OF THE BENGUELA COASTAL UPWELLING SYSTEM USING A ROMS NUMERICAL MODEL FROM 1993-2014

Supervisor: Prof JC Hermes

Co-supervisor: Dr JA Veitch

Co-supervisor: Dr M Roagosha

SIRKHOTTE, Saeedah

(Biochemistry)

Title of dissertation:

EVALUATING ANTIDIABETIC PROPERTIES OF SELECTED AFRICAN MEDICINAL PLANTS IN A CELL-BASED MODEL

Supervisor: Dr SI Williams (Late)

Co-supervisor: Prof M van de Venter

Co-supervisor: Ms S Reddy

STOCKDALE, Victoria Alma

(Biological Oceanography)

Title of dissertation:

INTEGRATING STATE-SPACE MODELLING AND SYSTEMATIC CONSERVATION PLANNING TO RECOMMEND PENGUIN-FISHERY MANAGEMENT ZONES IN ALGOA BAY, SOUTH AFRICA

Supervisor: Prof AT Lombard

Co-supervisor: Prof LC Pichegru

Co-supervisor: Dr VL Goodall

Co-supervisor: Dr J Clifford-Holmes

VALASHIYA, Khaya

(Geology)

Title of dissertation:

FIELD MAPPING AND GEOCHEMISTRY OF LOWER JURASSIC SEDIMENTS AND VOLCANICS OF THE UPPER KAROO SUPERGROUP NEAR HA MOSI, LESOTHO MOUNTAINS

Supervisor: Dr B Linol

Co-supervisor: Prof M de Wit (Late)



VAN STAVEL, Jordan
(*Biological Oceanography*)

Title of dissertation:

FUNCTIONAL TRAITS AND POTENTIAL PHYSICAL DRIVERS OF OFFSHORE BENTHIC EPIFAUNA ON THE WEST AND SOUTH COAST OF SOUTH AFRICA

Supervisor: Prof JC Hermes
Co-supervisor: Dr LJ Atkinson
Co-supervisor: Dr T Morris

VANDALA, Bamanye - **Cum Laude**

(*Geology*)

Title of dissertation:

CHARACTERIZATION OF THE COASTAL AQUIFER OF GQEBERHA, SOUTH AFRICA: DEVELOPING A CONCEPTUAL UNDERSTANDING

Supervisor: Dr G Mahed

VOGES, Mignon - **Cum Laude**

(*Zoology*)

Title of dissertation:

SPATIAL PATTERNS OF HUMAN-ELEPHANT CONFLICT AND ELEPHANT SPACE-USE IN LIWONDE NATIONAL PARK, MALAWI

Supervisor: Prof GIH Kerley
Co-supervisor: Miss A Gaylard

WINFIELD, Philip John
(*Computer Science and Information Systems*)

Title of dissertation:

AN ARCHITECTURE FOR FEEDBACK-DRIVEN LEARNING ANALYTICS

Supervisor: Prof CB Cilliers
Co-supervisor: Prof BJ van Wyk

MASTER OF SCIENCE IN NANOSCIENCE (COURSEWORK)

RAMAGOMA, Rolivhuwa Bishop

Title of treatise:

INVESTIGATING THE EFFECT OF PEPTIDE-FUNCTIONALIZED GOLD NANOPARTICLES ON COLON CANCER CELLS

Supervisor: Prof S Roux

FACULTY OF SCIENCE

DOCTOR OF PHILOSOPHY

AGBO, Irene Adzo

(Chemistry)

Title of thesis:

CHEMICAL ANALYSIS AND BIOLOGICAL ACTIVITIES OF CRUDE EXTRACTS AND ESSENTIAL OIL OF SELECTED MEDICINAL PLANTS FROM THE EASTERN CAPE, SOUTH AFRICA, AND VOLTA REGION OF GHANA

Supervisor: Dr BG Hlangothi

Co-supervisor: Prof M van de Venter

COTIYANE-PONDO, Phumlile Leon

(Botany)

Title of thesis:

MARINE BENTHIC (EPILITHIC) DIATOM COMMUNITIES ALONG THE COAST OF SOUTH AFRICA – A CONTRIBUTION TO THEIR DIVERSITY, SPATIO-TEMPORAL VARIATIONS AND ECOLOGY

Supervisor: Prof TG Bornman

FILANDER, Zoleka Nontlantla Patricia

(Zoology)

Title of thesis:

THE TAXONOMY, PHYLOGENY AND BIOGEOGRAPHIC PATTERNS OF THE SOUTH AFRICAN AZOOXANTHELLATE SCLERACTINIAN CORAL FAUNA (CNIDARIA: HEXACORALLIA): WITH IMPLICATIONS FOR MARINE SPATIAL PLANNING

Supervisor: Prof AT Lombard

Co-supervisor: Prof KJ Sink

Co-supervisor: Dr SD Cairns

Co-supervisor: Prof MV Kitahara

GREVE, Jade Candice

(Geology)

Title of thesis:

MAGNETOTELLURIC AND GEOLOGICAL MODELLING OF THE EASTERN KAROO BASIN, SOUTH AFRICA: IMAGING A POTENTIAL SHALE GAS BEARING HORIZON

Supervisor: Prof CM Doucouré

Co-supervisor: Dr U Weckmann

MFIKILI, Athi Nkosibonile

(Oceanography)

Title of thesis:

EVIDENCE OF LATE HOLOCENE EXTREME MARINE WAVE EVENT (TSUNAMI) DEPOSITS ALONG THE SOUTH AFRICAN COAST AND IMPLICATIONS FOR COASTAL ZONE MANAGEMENT

Supervisor: Prof TG Bornman

Co-supervisor: Dr HC Cawthra

NYONI, Bothwell

(Chemistry)

Title of thesis:

PYROLYSIS OF ALGAL BIOMASS AND COAL IN A ROTARY KILN REACTOR: PYROLYSIS BEHAVIOUR, PRODUCT DISTRIBUTION AND KINETIC ANALYSIS

Supervisor: Prof SP Hlangothi



REDDY, Shanika

(Biochemistry)

Title of thesis:

EVALUATION OF THE ANTIDIABETIC POTENTIAL, SAFETY AND EFFICACY OF SELECTED NATURAL PRODUCTS USING ZEBRAFISH LARVAE AND IN VITRO BIOASSAYS

Supervisor: Prof M van de Venter

Co-supervisor: Dr TC Koekemoer

Co-supervisor: Dr NS Dambuza

STRYDOM, Tiaan

(Nature Conservation)

Title of thesis:

EFFECTS OF FIRE ON ARCHITECTURE AND COMPOSITION OF CANOPY SHRUBS IN SUBTROPICAL DUNE THICKET OF THE SOUTHEASTERN CAPE FLORISTIC REGION

Supervisor: Dr T Kraaij

Co-supervisor: Prof RM Cowling

Co-supervisor: Dr BA Grobler

STRYDOM, Zanri

(Nature Conservation)

Title of thesis:

ASSESSING THE EFFECTS OF FISH STOCK MANAGEMENT ON CAPE GANNET FORAGING BEHAVIOUR IN SOUTH AFRICA

Supervisor: Prof JA Venter

Co-supervisor: Prof LC Pichegru

Co-supervisor: Prof H Fritz

Co-supervisor: Prof D Grémillet

SWANEPOEL, Bresler

(Biochemistry)

Title of thesis:

ESTABLISHMENT OF A HIGH-CONTENT NEURODEGENERATIVE DISEASE MODEL SCREENING PLATFORM

Supervisor: Prof M van de Venter

Co-supervisor: Dr L Venables

TALLA, Assane

(Physics)

Title of thesis:

EFFECTS OF ANNEALING ON THE STRUCTURAL AND OPTICAL PROPERTIES OF NANOSTRUCTURED TITANIUM DIOXIDE (TiO₂)

Supervisor: Prof JR Botha

Co-supervisor: Prof SV Motlounj

Co-supervisor: Dr ZN Urgessa

TIJANI, Yusuf

(Applied Mathematics)

Title of thesis:

FINITE DIFFERENCE METHODS FOR BURGERS-HUXLEY EQUATION AND BIOFILM FORMATION

Supervisor: Prof AR Appadu

TSIPA, Phuti Cedric
(Chemistry)

Title of thesis:

THE USE OF A NOVEL CHEMICAL SYSTEM TOWARDS IMPROVING WASTE TYRE PYROLYSIS AND THE QUALITY OF WASTE TYRE PYROLYSIS PRODUCTS

Supervisor: Prof SP Hlangothi

Co-supervisor: Dr NM Mkhize

Co-supervisor: Dr SA Iwarere



FACULTY OF LAW

DOCTOR OF LAWS

BONO, Luvuyo Livingstone

(Mercantile Law)

Title of thesis:

A COMPARATIVE ANALYSIS OF AN ESSENTIAL SERVICE SYSTEM

Supervisor: Prof JA van der Walt

FOCA, Nolusindiso Octavia

(Mercantile Law)

Title of thesis:

VIOLENT AND INTRACTABLE STRIKES AND THE RIGHT TO STRIKE

Supervisor: Prof JA van der Walt

WAGENAAR, Tanya

(Public Law)

Title of thesis:

THE INTEGRATION OF MARINE BIOPROSPECTING GOVERNANCE REGIMES

Supervisor: Prof PHG Vrancken
Co-supervisor: Prof FE Marx (Late)

FACULTY OF ENGINEERING, THE BUILT ENVIRONMENT AND TECHNOLOGY

DOCTOR OF PHILOSOPHY IN CONSTRUCTION MANAGEMENT

MHLANGA, Jacob

Title of thesis:

APPLICABILITY OF SUSTAINABLE CONSTRUCTION AND ENVIRONMENTAL RESILIENCE IN A CIRCULAR BUILT ENVIRONMENT IN SOUTHERN AFRICA

Supervisor: Prof TC Haupt
Co-supervisor: Prof C Loggia

QUMBISA, Nolwazi Mandosi Robertious

Title of thesis:

CASE-BASED RESEARCH ON THE FEDUP MODEL FOR SELF-HELP HOUSING

Supervisor: Prof FA Emuze
Co-supervisor: Prof JJ Smallwood

DOCTOR OF PHILOSOPHY IN ENGINEERING

JONCK, Frederikus

(Mechanical)

Title of thesis:

QUANTIFYING THE STRENGTHENING MECHANISM OF POWDER ALLOYING ADDITIONS ON THE WELD JOINT EFFICIENCY OF DISC LASER WELDED 6082 ALUMINIUM SHEET

Supervisor: Prof DG Hattingh
Co-supervisor: Dr A Botes



FACULTY OF HEALTH SCIENCES

DOCTOR OF PHILOSOPHY IN PSYCHOLOGY

OAKES, Elizabeth Jean

Title of thesis:

EXPLORING UNIVERSITY LEVEL ADMISSIONS DECISION-MAKING BASED ON ACCESS TESTING AND UNDERGRADUATE ADMISSIONS VARIABLES

Supervisor: Prof CD Foxcroft

Co-supervisor: Prof L Stroud

OPPELT, Thelma Rose

Title of thesis:

SPOUSAL EXPERIENCES OF LIVING WITH A GAMBLING DISORDERED PARTNER AND INTIMATE PARTNER VIOLENCE IN SOUTH AFRICA: A GROUNDED THEORY STUDY

Supervisor: Prof Y Ally

SIBAM-TWALO, Zimkhitha

Title of thesis:

HONOURING THE DEAD: THE PSYCHOLOGICAL CONSEQUENCES OF THE COVID-19 LOCKDOWN RESTRICTIONS ON BURIAL PRACTICES AND RITUALS, AMONGST AMAXHOSA FROM THE EASTERN CAPE, SOUTH AFRICA

Supervisor: Prof Y Ally

DOCTORAL CITATIONS



THE DEGREE OF DOCTOR OF PHILOSOPHY (CHEMISTRY)

IRENE ADZO AGBO

Previous qualifications:

2007 BEd Science
2012 MPhil Nuclear and Environmental Protection

University of Cape Coast, Ghana
University of Ghana, Ghana



Thesis:

CHEMICAL ANALYSIS AND BIOLOGICAL ACTIVITIES OF CRUDE EXTRACTS AND ESSENTIAL OIL OF SELECTED MEDICINAL PLANTS FROM THE EASTERN CAPE, SOUTH AFRICA, AND VOLTA REGION OF GHANA

This study investigated the chemistry and bioactivity of *Lantana camara* and *Khaya grandifoliola* solvent extracts. Chromatographic, spectrometric, and spectroscopic analysis were used to pursue the chemistry of these extracts. The findings revealed that methanol extracts of each plant were nontoxic and retained high total phenolic content, which correlated positively with bioactivities such as antioxidant, anti-inflammatory, and antimicrobial properties. The results supported the wound-healing potential of the two plants, confirming their ethnomedicinal uses. Several compounds were isolated, including new compounds from both plant extracts. Although these plants belong to different families, they both possess wound-healing potential, as observed from the findings of this study. Two journal articles were published in accredited journals.

Supervisor: Dr BS Hlangothi
Co-supervisor: Prof M van de Venter

THE DEGREE OF DOCTOR OF PHILOSOPHY (BOTANY)

PHUMLILE LEON COTIYANE-PONDO

Previous qualifications:

2013	Bachelor of Science	Rhodes University
2014	Bachelor of Science (Hons) (Botany)	Rhodes University
2017	Master of Science (Botany)	Rhodes University



Thesis:

MARINE BENTHIC (EPILITHIC) DIATOM COMMUNITIES ALONG THE COAST OF SOUTH AFRICA – A CONTRIBUTION TO THEIR DIVERSITY, SPATIO-TEMPORAL VARIATIONS AND ECOLOGY

This study investigated and described the spatial and temporal quantity, diversity and distribution of marine epilithic diatoms along the coast of South Africa. The series of studies presented in this research highlighted the differences in epilithic diatom communities around the coastline and the important role environmental factors play in shaping their composition. One reviewer remarked in one of the three manuscripts published from this thesis that it “forms an excellent baseline account and the relationship with temperature could become very useful when monitoring for climate change”. The study also successfully assessed the viability of a novel experimental biomonitoring method that will inform future long-term monitoring programmes.

Supervisor: Prof TG Bornman

THE DEGREE OF DOCTOR OF PHILOSOPHY (ZOOLOGY)

ZOLEKA NONTLANTLA PATRICIA FILANDER

Previous qualifications:

2011 BSc (Biological Sciences)
2012 BSc (Hons) (Marine Zoology)
2014 MSc (Marine Zoology)

Walter Sisulu University
Walter Sisulu University
University of Cape Town



Thesis:

THE TAXONOMY, PHYLOGENY AND BIOGEOGRAPHIC PATTERNS OF THE SOUTH AFRICAN AZOOXANTHELLATE SCLERACTINIAN CORAL FAUNA (CNIDARIA: HEXACORALLIA): WITH IMPLICATIONS FOR MARINE SPATIAL PLANNING

This doctoral thesis focuses on the South African azooxanthellate Scleractinia corals, which differ from tropical corals in not relying on symbiotic algae. It addresses knowledge gaps by examining the taxonomy, phylogeny, diversity patterns and management of these corals. Through analysing specimens from various sources, new species and genera were discovered. The molecular analysis, the first of its kind for South African azooxanthellate scleractinians, confirmed existing knowledge and identified inconsistencies. Additionally, the study quantified diversity patterns, highlighted species in need of additional protection and identified research gaps. Overall, the thesis contributes towards supporting conservation and management strategies for these ecologically significant corals.

Supervisor: Prof AT Lombard
Co-supervisor(s): Prof KJ Sink
Dr SD Cairns
Prof MV Kitahara

THE DEGREE OF DOCTOR OF PHILOSOPHY (GEOLOGY)

JADE CANDICE GREVE

Previous qualifications:

2014 Bachelor of Science (Geology and Physics)
2015 Bachelor of Science (Hons) (Geology)

Nelson Mandela Metropolitan University
Nelson Mandela Metropolitan University



Thesis:

MAGNETOTELLURIC AND GEOLOGICAL MODELLING OF THE EASTERN KAROO BASIN, SOUTH AFRICA: IMAGING A POTENTIAL SHALE GAS BEARING HORIZON

With the current global search for new energy sources, shale gas has become an increasingly important resource alternative to bridge the gap from traditional energy supply to greener technologies. The purpose of this study was to image the potential shale gas bearing horizon, and possible groundwater reservoirs, of South Africa's Karoo Basin using magnetotellurics (a passive geophysical technique) and produce 2D and 3D electric field distribution models. Results from these models were utilised alongside complimentary geological, geophysical and geochemical datasets to produce an integrated 3D geological model, providing a key tool by which to inform future shale gas exploration activities.

Supervisor: Prof M Doucouré
Co-supervisor: Dr U Weckmann

THE DEGREE OF DOCTOR OF PHILOSOPHY (OCEANOGRAPHY)

ATHI NKOSIBONILE MFIKILI

Previous qualifications:

2012 BA (Geography and Sociology)
2014 BA (Hons) (Environmental Management)
2017 MSc (Botany)

Nelson Mandela Metropolitan University
University of South Africa
Nelson Mandela Metropolitan University



Thesis:

EVIDENCE OF LATE HOLOCENE EXTREME MARINE WAVE EVENT (TSUNAMI) DEPOSITS ALONG THE SOUTH AFRICAN COAST AND IMPLICATIONS FOR COASTAL ZONE MANAGEMENT

The purpose of this study was to investigate evidence of past tsunamis and related events preserved along the South African coast. This thesis presents the first geological evidence of extreme marine wave inundation – possibly by tsunami waves - dating back to two dominant times in the recent geological past. These are the mid-late Holocene (approximately 4000 thousand years ago) and the 1600s along the south-east and west coasts, respectively. The recurrence of such events could significantly impact the South African coast and, therefore, this work argues that the coastal management agencies should strengthen their efforts towards the establishment of coastal set-back lines against coastal flooding, thus mitigating the damages these unpredictable extreme events could have on exposed coastal zones.

Supervisor: Prof TG Bornman
Co-supervisor: Dr HC Cawthra

THE DEGREE OF DOCTOR OF PHILOSOPHY (CHEMISTRY)

BOTHWELL NYONI

Previous qualifications:

2007 BEng Chemical Engineering
2012 MEng Chemical Engineering

University of Science and Technology, Zimbabwe
North-West University, South Africa



Thesis:

PYROLYSIS OF ALGAL BIOMASS AND COAL IN A ROTARY KILN REACTOR: PYROLYSIS BEHAVIOUR, PRODUCT DISTRIBUTION AND KINETIC ANALYSIS

This research focused on converting low-grade coals, algal biomass, and their blends into liquid fuels and chemicals through thermochemical decomposition in a rotary kiln oven. Prioritising biomass substitution for coal helps mitigate environmental impacts. The investigation analysed decomposition kinetics, product yields and compositions using analytical instruments. Findings revealed that oils derived from coal and algae blends contain biofuel compounds like alcohols, fatty acids, esters, and poly-cyclic aromatic compounds. These results are vital as the world shifts towards low-carbon, and resource-conserving green economies. The findings from this study were presented in local and international conferences and published in reputable scientific journals.

Supervisor: Prof SP Hlangothi



THE DEGREE OF DOCTOR OF PHILOSOPHY (BIOCHEMISTRY)

SHANIKA REDDY

Previous qualifications:

2015 BSc (Biochemistry and Microbiology)
2016 BSc (Hons) (Biochemistry)
2018 MSc (Biochemistry)

Nelson Mandela University
Nelson Mandela University
Nelson Mandela University



Thesis:

EVALUATION OF THE ANTIDIABETIC POTENTIAL, SAFETY AND EFFICACY OF SELECTED NATURAL PRODUCTS USING ZEBRAFISH LARVAE AND IN VITRO BIOASSAYS

The aim of this study was to define working concentrations for *in vitro* assays and *in vivo* zebrafish assays and contribute to the characterization of safety and risk profiles of selected natural products. The next aim was to evaluate natural products in an *in vitro* (Type 2 Diabetes Mellitus (T2DM) model to identify their potential as antidiabetic candidates. From this study, novel data regarding the potential of rooibos, honeybush, cancer bush, and rooikrans to reduce hepatic glucose output and morphological features associated with insulin resistance was recorded, contributing to antidiabetic therapeutic potential of South African natural products.

Supervisor: Prof M van de Venter
Co-supervisor(s): Dr TC Koekemoer
Dr NS Dambuza

THE DEGREE OF DOCTOR OF PHILOSOPHY (NATURE CONSERVATION)

TIAAN STRYDOM

Previous qualifications:

2017 National Diploma: Nature Conservation
2018 BTech: Nature Conservation
2019 Masters of Science: Nature Conservation

Nelson Mandela University
Nelson Mandela University
Nelson Mandela University



Thesis:

EFFECTS OF FIRE ON ARCHITECTURE AND COMPOSITION OF CANOPY SHRUBS IN SUBTROPICAL DUNE THICKET OF THE SOUTHEASTERN CAPE FLORISTIC REGION

The study investigated the resilience of dune thicket shrubs species to varying levels of disturbance from fire and browsing to understand what drives thicket persistence among fire-prone fynbos vegetation. Thicket canopy species were characterised based on their architecture traits, and thicket community types identified in relation to fire exposure in the landscape. The study's findings will contribute towards ecologically sound management of fire and herbivory in dune thicket vegetation. Two chapters have been published as research papers, in *Peer J* and *Journal of Vegetation Science*, respectively, and a third paper under review by the journal *Plant Ecology*.

Supervisor: Dr T Kraaij
Co-supervisor(s): Prof RM Cowling
Dr BA Grobler

THE DEGREE OF DOCTOR OF PHILOSOPHY (NATURE CONSERVATION)

ZANRI STRYDOM

Previous qualifications:

2017 National Diploma: Nature Conservation
2018 BTech: Nature Conservation
2020 Masters of Science: Nature Conservation

Nelson Mandela University
Nelson Mandela University
Nelson Mandela University



Thesis:

*ASSESSING THE EFFECTS OF FISH STOCK
MANAGEMENT ON CAPE GANNET FORAGING
BEHAVIOUR IN SOUTH AFRICA*

The study demonstrated the influence of age and sex on energy expenditure in foraging Cape gannets. It was found that females older than 17 years expended significantly more energy while foraging compared to males of that age. This possible early onset of senescence in females likely reduces their resilience to environmental change. The study also determined the influence of adult foraging effort and fisheries catch rates on chick growth rates, aiding an understanding of competition between fisheries and growing chicks. This study provided a new understanding of Cape gannet foraging behaviour necessary to estimate their vulnerability to a changing marine environment.

Supervisor: Prof JA Venter
Co-supervisor(s): Prof L Pichegru
Prof H Fritz
Prof D Grémillet

THE DEGREE OF DOCTOR OF PHILOSOPHY (BIOCHEMISTRY)

BRESLER SWANEPOEL

Previous qualifications:

2014 BSc (Biochemistry and Microbiology)
2015 BSc (Hons) (Biochemistry)
2019 MSc Biochemistry (*Cum Laude*)

Nelson Mandela Metropolitan University
Nelson Mandela Metropolitan University
Nelson Mandela University



Thesis:

ESTABLISHMENT OF A HIGH-CONTENT NEURODEGENERATIVE DISEASE MODEL SCREENING PLATFORM

The aim of this study was to establish a comprehensive *in vitro* neuroprotective screening platform incorporating high throughput screening, using Parkinson's disease as the neurodegenerative disease of interest. The findings suggest that a scoring system, which categorizes the different activities of selected natural products into distinct groups, can be a useful tool to improve the translatability of *in vitro* results to animal models. Furthermore, the current study arguably provides the most comprehensive neuroprotective screening platform in existence.

Supervisor: Prof M van de Venter
Co-supervisor: Dr L Venables

THE DEGREE OF DOCTOR OF PHILOSOPHY (PHYSICS)

ASSANE TALLA

Previous qualifications:

2010 BSc (Physics and Chemistry)
2012 (Hons) (Physics and Chemistry)
2015 MSc Physics (Condensed matter)
2019 MSc Physics

Cheikh Anta Diop University (Dakar, Senegal)
Cheikh Anta Diop University (Dakar, Senegal)
Cheikh Anta Diop University (Dakar, Senegal)
Nelson Mandela University



Thesis:

EFFECTS OF ANNEALING ON THE STRUCTURAL AND OPTICAL PROPERTIES OF NANOSTRUCTURED TITANIUM DIOXIDE (TiO₂)

This study focused on the structural and optical characterization of nanostructured TiO₂. Crystalline TiO₂, particularly its anatase and rutile phases, is a promising semiconductor material for the photocatalytic degradation of organic pollutants and for splitting water for green hydrogen production using sunlight. TiO₂ nanotubes were synthesized by anodic oxidation of titanium foils and then thermally annealed in various environments for crystallisation. Using different characterization techniques, it was demonstrated that the stability of the anodic TiO₂ films depends strongly on the annealing atmosphere and temperature. The optical, structural and crystalline quality (all of which strongly impact on the applications of this material) were assessed in detail and the findings of this study have significant implications for the production of clean, environmentally friendly energy.

Supervisor: Prof JR Botha
Co-supervisor(s): Prof SV Motloung
Dr ZN Urgessa

THE DEGREE OF DOCTOR OF PHILOSOPHY (APPLIED MATHEMATICS)

YUSUF OLATUNJI TIJANI

Previous qualifications:

2013 Bachelor of Science (BSc)
2018 Master of Science (MSc)

Obafemi Awolowo University
Obafemi Awolowo University



Thesis:

FINITE DIFFERENCE METHODS FOR BURGERS-HUXLEY EQUATION AND BIOFILM FORMATION

In this study, some versions of finite difference methods for the Burgers-Huxley equation and for a set of partial differential equations modelling biofilm formation/decay were constructed. The Burgers-Huxley equation describes the interaction among reaction mechanisms, convection effects, and diffusion transport. A biofilm is an aggregation of microorganisms that adhere to a surface and embedded within an extracellular matrix. The study concentrated on the classical and non-standard finite difference methods. Properties such as stability and consistency were studied, and results presented. The study provides insights into the benefits of non-standard finite difference schemes for such problems. The outputs were four peer-reviewed manuscripts published in journals indexed by *Web of Science* and two conference proceedings.

Supervisor: Prof AR Appadu

THE DEGREE OF DOCTOR OF PHILOSOPHY (CHEMISTRY)

PHUTI CEDRIC TSIPA

Previous qualifications:

2014 BSc (Chemistry and Polymer Science)
2017 BSc (Hons) (Chemistry)
2018 MSc (Chemistry)

University of Stellenbosch
Nelson Mandela University
Nelson Mandela University



Thesis:

THE USE OF A NOVEL CHEMICAL SYSTEM TOWARDS IMPROVING WASTE TYRE PYROLYSIS AND THE QUALITY OF WASTE TYRE PYROLYSIS PRODUCTS

Waste tyre pyrolysis is one of the major break throughs in the waste tyre recycling sector world-wide. However, this process has limitations that cannot be avoided, and these include high energy, high Polyaromatic hydrocarbons (PAHs) and high sulphur content. This research investigated how a novel chemical pre-pyrolysis treatment of waste tyres affected the pyrolysis temperature, quality and quantity of the resultant products. Key findings include significantly reduced pyrolysis process temperature, which translates to lower energy costs; as well as improved quality of the resultant products by virtue of obtaining reduced content of typically harmful chemical compounds in both the oil and solid residue fractions. This work produced various outcomes in the form of publications in internationally accredited scientific journals and presentations in both local and international conferences.

Supervisor: Prof SP Hlangothi
Co-supervisor(s): Dr NM Mkhize
Dr SA Iwarere

THE DEGREE OF DOCTOR OF LAWS (MERCANTILE LAW)

LUVUYO LIVINGSTONE BONO

Previous qualifications:

1994 BJuris
1999 LLB
2001 LLM Degree (Labour Law)

Vista University
Vista University
University of Port Elizabeth



Thesis:

A COMPARATIVE ANALYSIS OF AN ESSENTIAL SERVICE SYSTEM

The thesis investigates and critiques the essential service system in South Africa. The study analyses the South African essential services system and compares it to the New Zealand and Australian systems. The candidate reaches the conclusion that although the evolution of the substantives provisions of allowing limited strikes in essential services are positive and have a more limited erosion of the constitutional right to strike, the enforcement of the system is inadequate. Proposals are made to remedy these challenges.

Supervisor: Prof JA van der Walt

THE DEGREE OF DOCTOR OF LAWS (MERCANTILE LAW)

NOLUSINDISO OCTAVIA FOCA

Previous qualifications:

2009	Bachelor of Honours Degree in Public Administration	University of Stellenbosch
2013	Masters in Public Administration (MPA)	University of Pretoria
2014	Masters in Labour Law (<i>Cum Laude</i>)	Nelson Mandela Metropolitan University
2017	Post Graduate Diploma in Practical Labour Law (<i>Cum Laude</i>)	Nelson Mandela University



Thesis:

VIOLENT AND INTRACTABLE STRIKES AND THE RIGHT TO STRIKE

This study examines violent strikes in South Africa, its historical origin and the socio-economic factors that trigger violence, while considering the legislative developments over the years to balance the right to strike and the right of employer and non-striking workers to not be exposed to criminal elements. This thesis argues that strike violence can be averted through further amendments to the Labour Relations Act to incorporate criminal sanctions, which will serve as a deterrent for future misconduct by striking workers.

Supervisor: Prof JA van der Walt

THE DEGREE OF DOCTOR OF LAWS (PUBLIC LAW)

TANYA WAGENAAR

Previous qualifications:

1995 Baccalaureus Artium
1996 Baccalaureus Artium (Hons)
2008 Baccalaureus Legum
2011 Magister Legum

University of Port Elizabeth
University of Port Elizabeth
Nelson Mandela Metropolitan University
Nelson Mandela Metropolitan University



Thesis:

*THE INTEGRATION OF MARINE BIOPROSPECTING
GOVERNANCE REGIMES*

This study aimed to assess how marine bioprospecting is governed in areas within national jurisdiction (AWNJ) and areas beyond national jurisdiction (ABNJ), to determine how these regimes can best be integrated to strengthen the governance of marine bioprospecting for technical and scientific equity between developed and developing states. The study showed that, while there is general compatibility between the regimes applicable to biodiversity and the marine environment, the intellectual property (IP) regime is seemingly incongruent with the regimes applicable to biodiversity and the marine environment. The proposed international legally binding instrument (ILBI) to govern biodiversity of ABNJ represents an ideal opportunity to integrate these regimes and the ILBI needs to engage with IP in a way that existing frameworks have not.

Supervisor: Prof PHG Vrancken
Co-supervisor: Prof FE Marx (Late)

THE DEGREE OF DOCTOR OF PHILOSOPHY IN CONSTRUCTION MANAGEMENT

JACOB MHLANGA

Previous qualifications:

2013	Bachelor of Quantity Surveying (Hons)	National University of Science and Technology
2016	MSc (Construction Project Management)	National University of Science and Technology
2021	Master of Business Administration	Midlands State University



Thesis:

APPLICABILITY OF SUSTAINABLE CONSTRUCTION AND ENVIRONMENTAL RESILIENCE IN A CIRCULAR BUILT ENVIRONMENT IN SOUTHERN AFRICA

This study adopted an exploratory sequential mixed-method design to develop a circular built environment (CBE) model based on non-conflicting factors of sustainable construction (SC) and environmental resilience (ER). Prior studies demonstrated how SC advances sustainability in the built environment. In this study, the candidate explored how ER can, jointly with SC, influence CBE transition in Southern Africa. The results suggest that ER drives the transition, whereas SC impacts on design practices. Further, the three building lifecycle phases promote CBE design construction and operation. Therefore, this study contributes to the construction industry stakeholders by proposing a Southern Africa Circular Built Environment Framework (SACBEF).

Supervisor: Prof TC Haupt
Co-supervisor: Prof C Loggia

THE DEGREE OF DOCTOR OF PHILOSOPHY IN CONSTRUCTION MANAGEMENT

NOLWAZI MANDOSI ROBERTIOUS QUMBISA

Previous qualifications:

2015 Bachelor of Social Science (Housing)
2017 Master of Housing

University of Kwa Zulu Natal
University of Kwa Zulu Natal



Thesis:

CASE-BASED RESEARCH ON THE FEDUP MODEL FOR SELF-HELP HOUSING

In South Africa, the State provides low-income housing through subsidies to construct starter homes. The State needs to put more effort into meeting the demand for housing in the country. This study contributed significantly to knowledge by putting forward a self-help housing model. The self-help housing model has implications for how to curb the proliferation of informal settlements, especially in the central region of South Africa. This study thus demonstrates that stakeholders can improve the social impact of housing through a self-help approach.

Supervisor: Prof FA Emuze
Co-supervisor: Prof JJ Smallwood

THE DEGREE OF DOCTOR OF PHILOSOPHY IN ENGINEERING (MECHANICAL)

FREDERIKUS JONCK

Previous qualifications:

1999	National Diploma: Engineering Metallurgy	Port Elizabeth Technikon
2012	Graduate Diploma: Engineering Metallurgy and Materials	University of Witwatersrand
2013	Master of Engineering	University of Witwatersrand
2015	Bachelor of Technology: Quality	Nelson Mandela Metropolitan University



Thesis:

QUANTIFYING THE STRENGTHENING MECHANISM OF POWDER ALLOYING ADDITIONS ON THE WELD JOINT EFFICIENCY OF DISC LASER WELDED 6082 ALUMINIUM SHEET

This thesis evaluated the viability of using a modified laser metal deposition process to increase the joint efficiency of 6082-T6 aluminium thin sheet as compared to conventional laser welding processes. The strengthening influence of powder alloying additions of AlSi12, Ti, and Ti6Al4V on the mechanical properties of laser welded 6082-T6 aluminium thin sheet were investigated. The results obtained showed a clear improvement in hardness, tensile strength, and fatigue properties of powder alloyed welds compared to conventional laser welded components. This work makes an important knowledge contribution towards lightweighting of laser welded components and can be considered a significant contribution to assist the manufacturing industry to observe the strict environmental regulations for reduced CO₂ emission.

Supervisor: Prof DG Hattingh
Co-supervisor: Dr A Botes

THE DEGREE OF DOCTOR OF PHILOSOPHY (PSYCHOLOGY)

ELIZABETH JEAN OAKES

Previous qualifications:

1998 Baccalaureus Artium
1999 Baccalaureus Artium (Hons)
2004 Magister Artium in Counselling Psychology

University of Port Elizabeth
University of Port Elizabeth
University of Port Elizabeth



Thesis:

EXPLORING UNIVERSITY LEVEL ADMISSIONS DECISION-MAKING BASED ON ACCESS TESTING AND UNDERGRADUATE ADMISSIONS VARIABLES

This study explored decision-making in a university admissions context. By combining Social Judgement and Cognitive Continuum theories and experimentally mirroring the real-life admissions context, a baseline description was provided of how decisions were made using school and access test results. Results indicated the uniqueness of decision-makers and the intuitive approach they adopted. Furthermore, knowledge regarding degree or diploma program decision-making was linked to the consistency of the decision-making patterns, as was the importance of emphasising access test results to enhance decision-achievement. This study contributes significantly to the methodology of researching decision-making, our understanding of admissions decision-making, and how to enhance the training of decision-makers in this context and beyond.

Supervisor: Prof CD Foxcroft
Co-supervisor: Prof L Stroud

THE DEGREE OF DOCTOR OF PHILOSOPHY (PSYCHOLOGY)

THELMA ROSE OPPELT

Previous qualifications:

2004 Bachelor of Science
2012 Bachelor of Arts (Hons) Psychology
2016 Master of Arts (Psychology)

University of Stellenbosch
UNISA
UNISA



Thesis:

SPOUSAL EXPERIENCES OF LIVING WITH A GAMBLING DISORDERED PARTNER AND INTIMATE PARTNER VIOLENCE IN SOUTH AFRICA: A GROUNDED THEORY STUDY

Spouses living with traumatic experiences that are related to Intimate Partner Violence (IPV) in a relationship where a gambling disorder is present, are receiving growing attention in research. The overall aim of the study was to examine spousal experiences of IPV and gambling disorder to develop a theory utilising Grounded Theory. The study is rooted in social constructionism and developed a theory of being stranded at the intersection of disordered gambling and IPV. This study contributes to the understanding of IPV in a relationship where Gambling Disorder is present. South African policy makers, healthcare workers and researchers need to address the structural violence in the above-mentioned relationships that keep individuals from obtaining the resources they need to lead a happy and healthy life.

Supervisor: Prof Y Ally

THE DEGREE OF DOCTOR OF PHILOSOPHY (PSYCHOLOGY)

ZIMKHITHA SIBAM-TWALO

Previous qualifications:

2014 BA Psychology
2015 BA (Hons) Psychology
2019 MA Psychology (*Cum Laude*)

Nelson Mandela Metropolitan University
Nelson Mandela Metropolitan University
Nelson Mandela University



Thesis:

HONOURING THE DEAD: THE PSYCHOLOGICAL CONSEQUENCES OF THE COVID-19 LOCKDOWN RESTRICTIONS ON BURIAL PRACTICES AND RITUALS, AMONGST AMAXHOSA FROM THE EASTERN CAPE, SOUTH AFRICA

The COVID-19 lockdown restrictions impacted how the religio-cultural rituals were carried out, with families unable to bid farewell to their loved ones in a culturally and religiously sanctioned manner. The study focused on the psychological consequences of the changes in burial practices among the amaXhosa. The study's findings demonstrated that those who buried their loved ones during the lockdown without performing the traditional burial practices and rituals did not achieve closure or reach the acceptance stage. This non-acceptance

was marked by the participants' struggle to come to terms with the loss both psychologically and spiritually. Participants were grieving the loss of a loved one, but at the same time, they were mourning the loss of the rituals and the meaning they served. The study developed a set of guidelines that can be employed by mental health practitioners working with clients who have lost a loved one within similar contexts.

Supervisor: Professor Y Ally

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The official photographer for the Nelson Mandela University graduation ceremony is Gordon Harris Photographic. Photographs will be taken of every graduate as he or she is being presented by the Executive Dean of the Faculty and when being hooded by the Registrar. A demarcated area will be used to take family photographs, please follow directional signage. Please refer to the enclosed photograph order form.

NOTE: NO OTHER PHOTOGRAPHERS WILL BE ALLOWED IN THE HALL.

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NATIONAL ANTHEM

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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 Africa.

South Africa.

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.

Change the World

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