

NELSON MANDELA  
UNIVERSITY



**April 2022**

**Autumn Graduation**

**Ceremony 20**

Faculty of Science

30 APRIL 2022 | 09:30





## **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

Diversity

Ubuntu

Social justice and equality

Integrity

Environmental stewardship



Excellence

Diversity

Ubuntu

Social justice  
and equality

Integrity

Environmental  
stewardship

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# Congratulatory Message

Graduation is a significant milestone in life. It is the culmination of an academic journey that reflects your ambition, determination, commitment, perseverance and hard work. We know that this journey is often not yours alone, as many have travelled with you - your friends, your lecturers, your supervisors, your mentors and your family. They have invested in you financially, encouraged you to persevere, guided your studies and above all, believed in your ability to succeed and achieve this graduation dream.

Today your joy is our joy too. Such a significant moment – your graduation day – must be celebrated for it not only recognises all that you have achieved but also focuses on all the potential and possibilities to come. It offers great hope for the future – and you are that bright future.

The coronavirus pandemic has transformed our lives – the way we work, study and live. Today, however, we are filled with joy and gratitude to be able to celebrate your graduation together in person. We are also extremely pleased that many more are able to join us virtually via livestreaming. As a student who had to navigate your studies in

unprecedented circumstances, we especially salute and applaud your achievement as you pioneered this path. It could not have been easy.

We wish you all the very best for your future endeavours wherever they may take you as a proud alumnus of Nelson Mandela University. Continue learning through-out your life journey. Allow the flame of your curiosity for the new and yet to be discovered to burn brightly. Education is your passport to the future – and also to the future hopes of our country and our continent. It is indeed a foundation for 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.”***

Congratulations!

## Umyalezo wokuvuyisana

Uthweso zidanga ludumo olubaluleke kunene ebomini. Yinkcochoyi kuhambo lwemfundo enomsila echaza ukunxanwa kwakho, ukuzimisela, ukuzinikela, ukunyamezela kwanomsebenzi onzima. Siyayazi ukuba olu hambo asilolenu kuphela, nanjengoko uninzi luthle lwakhenketha nani – abahlobo benu, abahlohi beny, abaphathi benu, amakhankatha akho kwakunye nosapho lwenu. Babinze kuni ngokwezimali, banikhuthaza ukuba ninyamezele, banikhokela kwizifundo zenu, kwaye, kuyo yonke into, bakholelwa kumxakatho wenu wokuphumelela kwanokuzuza eli phupha lokuthweswa isidanga.

Namhlanje uchulumanco lwakho luchulumanco lwethu. Ilixa elibaluleke kunene – usuku lothweso sidanga – kufuneka lubhiyozelwe kuba aluqapheli nje kuphela konke othe wakuzuza kodwa likwagxila nakumandla kwanakumathuba azayo. Lisinika ithemba elikhulu kwikamva – kwaye ulelo kamva liqhakazileyo.

Intsholongwane yekhorona ibutshintshile ubomi bethu – indlela esisebenza, esifunda nesiphila ngayo. Kodwa namhlanje, sizele luvuyo nombulelo wokukwazi ukubhiyozela uthweso zidanga zenu Sisonke njengeziqu. Siyavuya kakhulu nanjengoko abanye abaninzi bekwazi ukuba yinxalenye yethu ngokobuxhakaxhaka bosasazo ngqo.

Njengomfundi oye waqhuba izifundo zakhe ngeendlela ebezingalindelekanga, sikothulela umnqwazi



Dr Geraldine Fraser-Moleketi  
Chancellor

ngokukhethekileyo futhi sikuqhwabela izandla kokuzuzileyo. Akukhange kubelula.

Sikunqwenelela okuhle kodwa, kwiinzame zakho zekamva elizayo, naphi na apho ziza kuthatha zikuse khona njengobesakuba ngumfundi ozingcayo weYunivesithi iNelson Mandela.

Qhubeka nokufunda kubude bohambo lobomi bakho. Vumela intlantsi yokunxanelwa ulwazi ukuba izalwe ngokokutsha kwaye iqanduselele ukutshikalela ekukhanyeni. Imfundo sisazisi sakho sobomi – kwakunye nakwithemba lekamva lelizwe lethu kwakunye nezwekazi lethu. Ngaphandle kwamathandabuzo, isisiseko sekamva elingcono. Okanye nanjengokuba uNelson Mandela eyibeka ngokucacileyo:

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

#### Huntshu!

Gradeplegtigheid is 'n belangrike mylpaal in jou lewe. Dit is die hoogtepunt van 'n akademiese reis wat jou ambisie, vasberadenheid, toewyding, deursettingsvermoë en harde werk weerspieël. Ons weet dat hierdie reis dikwels nie net joune alleen was nie, aangesien baie mense saam met jou gereis het – jou vriende, jou dosente, jou studieleiers, jou mentors en jou familie. Hulle het finansiële in jou belê, jou aangemoedig om te volhard, jou studies gelei en bowenal geglo in jou vermoë om sukses te behaal en hierdie gradeplegtigheidsdroom te bewaarheid.

Vandag is jou vreugde ook ons vreugde. So 'n belangrike oomblik – jou gradeplegtigheidsdag – moet gevier word, want dit erken nie net alles wat jy bereik het nie, maar fokus ook op al die potensiaal en moontlikhede wat voorlê. Dit bied groot hoop vir die toekoms – en jy is daardie blink toekoms.

Die koronaviruspandemie het ons lewens verander – die manier waarop ons werk, studeer en leef. Vandag is ons egter gevul met vreugde en dankbaarheid om jou gradeplegtigheid persoonlik saam te kan vier. Ons is ook baie bly dat baie meer mense virtueel by ons kan aansluit via die regstreekse uitsending.

As 'n student wat jou studies in ongekende omstandighede moes navigeer, salueer en loof ons veral jou prestasie as baanbreker op hierdie pad. Dit kon nie maklik gewees het nie.

Ons wens jou alles van die beste toe vir jou toekomstige pogings waar hulle jou ook al mag neem as 'n trotse alumnus van Nelson Mandela Universiteit.

Gaan voort om deur jou lewensreis te leer. Laat die vlam van jou

nuuskierigheid helder brand vir dit wat nuut is en nog ontdek moet word. Opvoedkunde is jou paspoort na die toekoms – en ook na die toekomshoop van ons land en ons vasteland. Dit is inderdaad 'n grondslag vir 'n beter wêreld. Of soos Nelson Mandela dit so welsprekend gestel het: Veels geluk!

***“Opvoedkunde en onderwys  
is die kragtigste wapen wat jy  
kan gebruik om die wêreld te  
verander.”***



**Professor Sibongile Muthwa  
Vice-Chancellor**



# About Nelson Mandela University



Nelson Mandela University is the only university in the world to carry the name of Nelson Rolihlahla Mandela.

With this honour comes the responsibility of leading our University into a new era of transformative innovation, development and change in line with the ethos and values of our namesake.

Living the legacy of Mandela should be reflected in the way we teach, learn, do research, engage with our partners, and work, study and live as staff, students and alumni.

We are on a journey to achieve this and become the learning destination for staff and students who:

- are pioneering change agents for a better world
- are committed to creating jobs in an entrepreneurial economy
- work together across disciplines in seeking solutions and innovations to achieve quality of life and a healthy environment for all people, and
- are instilled with a deep need to serve and give back.

## Fast Facts and V2030 Strategic Focus Areas



**CAMPUSES**  
NORTH, SOUTH, OCEAN SCIENCES, SECOND  
AVENUE (IN SUMMERSTRAND) MISSIONVALE  
(MISSIONVALE), BIRD STREET (CENTRAL),  
GEORGE (GEORGE CAMPUS IN THE GARDEN  
ROUTE)

**31 860**

**ENROLLED STUDENTS**

**6** INSTITUTIONAL  
**RESEARCH**  
THEMES

**2 230**

**PERMANENT EMPLOYEES**



**867**  
**INTERNATIONAL**  
**STUDENTS**

**258**  
**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)



**V2030 STRATEGIC  
FOCUS AREAS**

**51** **DIFFERENT  
COUNTRIES**



# Office-Bearers of the University

## **CHANCELLOR**

Dr GJ Fraser-Moleketi: MAdmin (UP), DPhil (hc) (Mandela University)

## **CHAIRPERSON OF COUNCIL**

Ambassador NP January-Bardill: BA, Cert in Ed(UBL), MA(Essex University, UK), Dip HR Management (Damelin)

## **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 Mang, Law and Policy) (UP)

## **DEPUTY VICE-CHANCELLOR: LEARNING AND TEACHING**

Prof CD Foxcroft: BA, BAHons, MA, DPhil(UPE)

## **DEPUTY VICE-CHANCELLOR: PEOPLE AND OPERATIONS**

Mr LE Hashatse: BJourn & Media, BAHons(Rhodes), MA(Edith Cowan University, Australia)

## **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**

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

## **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 K Blose: BSc(Construction Economics), BScHons(Quantity Surveying)(NMMU)



# Executive Deans of Faculties

## **BUSINESS AND ECONOMIC SCIENCES**

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

## **EDUCATION**

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

## **ENGINEERING, THE BUILT ENVIRONMENT AND TECHNOLOGY**

Prof D Pottas (Acting): BScHons(PU CHE), PhD(RAU), MCSSA

## **HEALTH SCIENCES**

Prof Z Zingela: MBChB(Natal), FCPsych(SA), MMed(UP)

## **HUMANITIES**

Prof P Maseko: BA, BAHons(UWC), MA, Cert in Assessor's Course (Curriculum Development and Assessment in HE), PhD, PGDip in Higher Ed(RU)

## **LAW**

Dr L Biggs (Acting): 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 Uni)



# Order of Proceedings

## **Entrance of Academic Procession**

## **Moment of silence**

## **Constitution of Congregation and Welcome**

Prof SW Muthwa (Vice-Chancellor)

## **Choral performance**

Nelson Mandela University Choir

## **Awarding of qualifications**

Prof SW Muthwa (Vice-Chancellor)

## **Conferring of Doctoral Degrees**

Prof SW Muthwa (Vice-Chancellor)

## **Message of Congratulations and Dissolution of Congregation**

Prof SW Muthwa (Vice-Chancellor)

## **National anthem**

Nelson Mandela University Choir

## **Departure of Academic Procession**

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

## **FACULTY OF SCIENCE**

### **DIPLOMA IN AGRICULTURAL MANAGEMENT**

BANTWINI, Meleza  
BOMELA, Sivuyile  
BOOI, Zodwa  
BUTHELEZI, Seneliswe Thembelihle  
BUWA, Sesethu  
FLIP, Patri-Ann Letitia  
GANGXA, Sizwe  
GEBEDA, Olwethu  
GINYA, Lihle  
GUMBI, Halalisiwe Silindile  
KELEPU, Zukisani Lazola  
LAGARDIEN, Nazeerah  
MADIKIZELA, Azile  
MAGQAWANA, Zintle  
MAKUNGA, Sinayo  
MANTYI, Lelethu  
MAPUZA, Sibulele  
MARRAND, Botle Nthabiseng  
MASHABA, Molatelo  
MATHANJANA, Zintle Siyithati  
MAZIBUKO, Nolungelo  
MFUDUKA, Lupumlo Mafu Ntsika  
MGCEBELE, Unathi  
MGODLO, Siphokazi  
MINNAAR, Amoré Ross-Anne  
MKHONDE, Qhayisa  
MTSHISA, Anele Emihle  
MUKOSI, Pfano  
MZATHU, Zoliswa  
NDAKU, Alulutho Busiswa  
NDAYI, Sinalo  
NGCEKE, Alungile Zingaphi  
NOGWAVU, Thandokazi  
NTANJANA, Sethu  
NTUSI, Asapiwe  
NYEMBENYA, Malakiwe  
PHOOKO, Thapelo  
RALULIMI, Omphulusa  
SLABBERT, Zacharias Johannes De Beer  
STEMBULL, Karyn-Lee  
TOMOSE, Sinazo  
VAN DER WALT, Zéan Tjaart  
VAN GREUNEN, Waldo  
VUKUTHU, Luxolo  
XEGWANA, Siphamandla  
YENGANA, Alungile

### ***CUM LAUDE***

YALEZO, Sanele

### **DIPLOMA IN GAME RANCH MANAGEMENT**

BEZUIDENHOUT, Franco  
BUYEYE, Zola  
CAMPHER, Ruben Nelis  
ESTERHUIZEN, Stephan  
EYBERS, Hendrik Philippus

FOURIE, Nellis Frederick  
GREEFF, Ingrid  
KRUGER, Johan Hendrik  
MOMBERG, Divan  
MTHANDEKI, Yamkela Sandiso  
NICHOLAS, Jessica  
REGAL, Ethan  
SWANEPOEL, Sthefanus Francois Jacobus  
VAN AARDT, Christiaan

### ***CUM LAUDE***

PALOS, Christopher Demetri  
VISAGIE, Marna

### **ADVANCED DIPLOMA IN AGRICULTURAL MANAGEMENT**

CUNU, Namhla  
DHLADHLA, Nhlakanipho Andrew  
FEBANE, Nokonwaba  
GCINGCA, Zimasa Nondyebo  
GEBUZA, Bongeka  
GWEBITYALA, Olona  
HLAZO, Zimingawe Luyoyisa  
JACK, Sinesipho  
KOYI, Vuyo Thabo  
KUMBULELI, Gcobisa  
LUNIKA, Miso Nalo  
LUSUNGULO, Okuhle  
MAGADLA, Yongamela  
MAGAU, Xola Zingeza Zamkelekile  
MAJOLA, Thembeka Nomnikelo  
MALONGWE, Sinazo  
MBONA, Thabile  
MOTSWI, Mantsha  
MTOLO, Zandile  
NETJIES, Sinoxolo  
NGCINGWANA, Sinazo Nontlahla  
NKONYENI, Okuhle Xola  
NYOSI, Apiwe  
PAUL, Unathi  
PRENTIS, Stephanie Laura  
QABAKA, Thandolwethu Neo  
QUVANA, Luzuko  
SHIBA, Innocentia Nqobile  
SIFUBA, Khwezi Eliyezere  
SILINGA, Hlalanathi  
XABA, Sicebiseni  
XAKEKA, Amnikiwe Bridget

### **ADVANCED DIPLOMA IN GAME RANCH MANAGEMENT**

RAUTENBACH, Johannes Andries

### ***CUM LAUDE***

SMIT, Daniëlle

## **BACHELOR OF SCIENCE**

ADAMS, Jethro Christopher  
(*Environmental Sciences*)

BENJAMIN, Saudiqua  
(*Environmental Sciences*)

BOKOMFU, Aphile  
(*Environmental Sciences*)

CHARAMANDA, Stephanie Farirai  
(*Geosciences: Geography and Geology*)

DAVIDS, Nathanael  
(*Geosciences: Geography and Geology*)

DAYIMANI, Sanele  
(*Geosciences: Geography & Geology*)

DAYIMANI, Sanele  
(*Geosciences: Geography and Geology*)

ELLIOTT, Kyra Mari  
(*Environmental Sciences*)

ESSENDROP, Amiel  
(*Environmental Sciences*)

EWING, Kai  
(*Environmental Sciences*)

KASSIEM, Amina  
(*Environmental Sciences*)

KELLA, Tasharee Alexi  
(*Environmental Sciences*)

KETELO, Mihle Simnikiwe  
(*Geosciences: Geography and Geology*)

LANGA, Boitumelo Gladys  
(*Environmental Sciences*)

LONI, Litha  
(*Environmental Sciences*)

LOTHOYI, Athandiwe  
(*Environmental Sciences*)

LUSAKASAKA, Sinenjongo  
(*Geosciences: Geography and Geology*)

MANZIYA, Mila  
(*Environmental Sciences*)

MATTHEWS, Cailyne  
(*Geosciences: Geography and Geology*)

MCFARLANE, Duncan William  
(*Environmental Sciences*)

MCLAREN, Cameron  
(*Environmental Sciences*)

MDAKANE, Zaina Sisonke  
(*Geosciences: Geography and Geology*)

MDLONGWA, Mthabisi Enat Junior  
(*Geosciences: Geography and Geology*)

MHOBO, Onela  
(*Environmental Sciences*)

MLINDAZWE, Yonela  
(*Geosciences: Geography and Geology*)

MONDLANE, Mandisa Temakhambane  
(*Environmental Sciences*)

MOTSWENE, Siphesihle Goodwill  
(*Geosciences: Geography and Geology*)

NDLELA, Alande Hlakaniphile  
(*Environmental Sciences*)

NEL, Luke Sean  
(*Environmental Sciences*)

NTSHIBA, Ongama Mhlali  
(*Environmental Sciences*)

NTSOEU, Shulamy Vuyolwethu  
(*Environmental Sciences*)

PARKER-NANCE, Michael Keir  
(*Geosciences: Geography & Geology*)

PARKER-NANCE, Michael Keir  
(*Geosciences: Geography and Geology*)

PHASHA, Abishag Galekae  
(*Environmental Sciences*)

QWANE, Asive  
(*Environmental Sciences*)

SIBANDA, Silibaziso  
(*Environmental Sciences*)

SOBETWA, Athi-Ayabulela  
(*Environmental Sciences*)

TAMAKLOE, Esinam Kokui Abila  
(*Geosciences: Geography & Geology*)

TAMAKLOE, Esinam Kokui Abila  
(*Geosciences: Geography and Geology*)

TOTYI, Nomabhaso  
(*Environmental Sciences*)

ZATU, Lona Andy  
(*Environmental Sciences*)

## **BACHELOR OF TECHNOLOGY: AGRICULTURAL MANAGEMENT**

GXALABA, Zintle Yolanda  
MAKADIKOA, Joseph Molatelo  
MATOTI, Samantha  
MBOPHA, Sbhongile  
SIMUNA, Ncebakazi

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

NOTYALWA, Nande Lungelwa  
NTSONDWA, Asithandile  
SCRIBA, Frank Carl

## **CUM LAUDE**

TROSKIE, Linmarie

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

GCUME, Mbali  
GXILISHE, Mongikazi  
JONAS, Chenique Amy  
MAGANO, Harriet Keaotshepa Mannuku  
MAGAXA, Sikhanyisele  
MAGOSWANA, Njabulo Hopewell  
MBUTHUMA, Asanda Ezile Nkosazana  
MKONJWA, Chuma  
MSUTU, Simamkele

## **BACHELOR OF SCIENCE HONOURS IN GEOGRAPHICAL INFORMATION SYSTEMS**

KAKEMBO, Juliana  
MOLAHLEHI, Lillian Lebohang

NOCUZE, Sanelise  
SKOSANA, Thandeka Evelyn  
SOKHELA, Nontembiso Sinamalungelo  
TSEDU, Rinae  
YONGA, Buyiswa

**BACHELOR OF SCIENCE HONOURS IN  
GEOLOGY**

CHRISTOFFELS, Casey Jade  
DLAKIYA, Sisipho  
LOURENS, Paul-Leon  
O'CONNELL, Tristin Wade  
SIPUKA, Lesedi Khanya Khanyisile

**BACHELOR OF SCIENCE HONOURS IN  
ZOOLOGY**

DAVIS, Kristen  
GRUNDLINGH, Philipp Louw  
IBARZABAL, Ivana Catherine  
NGCEFA, Samkele  
WALKER, Tegan

***CUM LAUDE***

FORBES, Ryan Edward  
HOEKSTRA, Shaun Pierre





## MASTER OF SCIENCE (RESEARCH)

ANDREW, Kaeleah Elizabeth

(Zoology)

Title of dissertation:

SETTLING IN: DO REINTRODUCED LION AND CHEETAH EXHIBIT PREY CHOICE SHIFTS?

Supervisor: Dr L Minnie

Co-supervisor: Prof GIH Kerley

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ANNEN, Eleesha - **Cum Laude**

(Zoology)

Title of dissertation:

REFINING PREDATOR- PREY PREFERENCE AT THE PREY DEMOGRAPHIC LEVEL FOR CHEETAH AND LION

Supervisor: Dr L Minnie

Co-supervisor: Prof GIH Kerley

---

BANDA, Shamiso - **Cum Laude**

(Zoology)

Title of dissertation:

FORAGING BEHAVIOUR OF THE SOOTY ALBATROSS IN RELATION TO CLIMATIC VARIABILITY AND FISHERIES

Supervisor: Prof PA Pistorius

Co-supervisor: Dr F Orgeret

---

BUTTNER, Daniel Harry

(Botany)

Title of dissertation:

HYDRAULIC VULNERABILITY OF SUBTROPICAL THICKET TO DROUGHT: A REMOTE SENSING AND PHYSIOLOGICAL PERSPECTIVE.

Supervisor: Dr AJ Potts

Co-supervisor: Dr R Duker

Co-supervisor: Dr R Skelton

---

CURRIN, Catherine Louise

(Zoology)

Title of dissertation:

TECHNIQUES FOR MEASURING STRESS RESPONSE TO HUMAN DISTURBANCE IN AFRICAN PENGUINS (SPHENISCUS DEMERSUS), AND THE IMPLICATIONS FOR ECOTOURISM MANAGEMENT.

Supervisor: Prof LC Pichegru

Co-supervisor: Prof A Ganswindt

---

FORBES, Abigail Lucia

(Geography)

Title of dissertation:

THE IMPACT OF SOCIO-ECONOMIC AND INSTITUTIONAL FACTORS ON THE LIVELIHOODS OF ARTISINAL FISHERFOLK OF KORSTEN, GQEBERHA

Supervisor: Dr LL Williams-Bruinders

---

GARIREMO, Natasha Rumbidzai  
(Geography)

Title of dissertation:

*HYDROGEOLOGICAL MODELLING OF A COASTAL WETLAND: THE DEVELOPMENT OF A NUMERICAL MODEL FOR RIETVLEI WETLAND.*

Supervisor: Dr G Mahed

---

JACOBS, Aidan Glenn - **Cum Laude**  
(Zoology)

Title of dissertation:

*SHALLOW-WATER SEASCAPE CONNECTIVITY: PREY RESOURCES AND FOOD WEB DYNAMICS OF JUVENILE SPARID FISHES IN A SHALLOW SUBTIDAL REEF IN ALGOA BAY, SOUTH AFRICA*

Supervisor: Dr GM Rishworth  
Co-supervisor: Dr NC James  
Co-supervisor: Dr LRD Human

---

NEL, Marele Annette - **Cum Laude**  
(Botany)

Title of dissertation:

*SEASONAL CHANGES OF METALS IN THE SALT MARSH AND SEAGRASS BEDS OF THE SWARTKOPS ESTUARY*

Supervisor: Dr LRD Human  
Co-supervisor: Prof JB Adams  
Co-supervisor: Dr G Rubidge

---

POTO, Okuhle  
(Geology)

Title of dissertation:

*DETERMINING THE DISTRIBUTION OF URANIUM (U) AND MOLYBDENUM (MO) AS POTENTIAL TOXIC CHEMICALS IN KAROO GROUND-AND-SURFACE WATER, AND THEIR POSSIBLE HEALTH IMPACTS NEAR BEAUFORT WEST, WESTERN CAPE*

Supervisor: Dr B Linol  
Co-supervisor: Prof H Mouri  
Co-supervisor: Dr G Mahed

---

RAMOHLALE, Tshegofatso Sekgopo Edwin  
(Geography)

Title of dissertation:

*THE USE OF GEOGRAPHIC INFORMATION SYSTEMS TO PROMOTE GEOSPATIAL INTELLIGENCE IN GEOSCIENCE STUDENTS AT NELSON MANDELA UNIVERSITY.*

Supervisor: Dr HW Britz

---

RAMOTSONGWA, Karabo Naome  
(Geography)

Title of dissertation:

*SPATIAL MODELLING OF ACCESSIBILITY TO TUBERCULOSIS TREATMENT: THE CASE OF NGAKA MODIRI MOLEMA DISTRICT*

Supervisor: Dr HW Britz  
Co-supervisor: Mr DH McKelly

---



TEMBE, Thandeka Nonceba

*(Geography)*

Title of dissertation:

*THE POTENTIAL IMPACTS OF HYDRAULIC FRACTURING ON KHOISAN PEOPLES' SENSE OF PLACE: THE CASE OF KAROO REGION, SOUTH AFRICA*

Supervisor: Dr LL Williams-Bruinders

Co-supervisor: Dr C Rensburg

---

TSIPA, Vusumzi

*(Botany)*

Title of dissertation:

*DEVELOPING A SOCIO- ECOLOGICAL FRAMEWORK FOR THE RESTORATION OF ESTUARIES USING THE SWARTKOPS ESTUARY A CASE STUDY*

Supervisor: Prof JB Adams

---

ZIETSMAN, Jolandrie

*(Agriculture)*

Title of dissertation:

*A CASE STUDY ON THE INCIDENCE AND EXTENT OF MEDULLATED AND COLOURED FIBRES IN THE COMMERCIALY PRODUCED SOUTH AFRICAN WOOL CLIP 2010 – 2017*

Supervisor: Dr LG Du Pisani

Co-supervisor: Mr PR Celliers

Co-supervisor: Ms SM Dreyer

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## DOCTOR OF PHILOSOPHY

BIZANI, Mfundo

*(Oceanography)*

Title of thesis:

*ZOOPLANKTON DYNAMICS OF ALGOA BAY (SOUTH AFRICA) UNDER VARYING OCEANOGRAPHIC CONDITIONS*

Supervisor: Dr SHP Deyzel

Co-supervisor: Prof R Perissinotto

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BORNMAN, Eugin

*(Zoology)*

Title of thesis:

*IMPACTS OF ALGAL BLOOMS IN A TEMPERATE ESTUARINE FISH NURSERY AREA, SOUTH AFRICA*

Supervisor: Prof NA Strydom

Co-supervisor: Prof JB Adams

---

BOTHA, Jonathan Aubrey

*(Zoology)*

Title of thesis:

*THE FORAGING ECOLOGY OF FEMALE CAPE FUR SEALS (ARCTOCEPHALUS PUSILLUS PUSILLUS) IN SOUTH AFRICA*

Supervisor: Prof PA Pistorius

Co-supervisor: Prof AT Lombard

Co-supervisor: Dr S Kirkman

Co-supervisor: Prof J Arnould

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HOLMES, Marion

*(Botany)*

Title of thesis:

*CAN DIATOMS BE USED AS A BIOMONITORING TOOL FOR SURFACE AND GROUNDWATER? TOWARDS A BASELINE FOR KAROO WATER*

Supervisor: Prof EE Campbell

Co-supervisor: Prof MJ de Wit

Co-supervisor: Prof JC Taylor

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MMACHAKA, Thandi Nthabiseng  
(Botany)

Title of thesis:

*SMART CATCHMENT MANAGEMENT AND APPLICATION IN THE SWARTKOPS RIVER AND ESTUARY*

Supervisor: Prof B Snow

Co-supervisor: Prof JB Adams

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PERSCHKE, Myriam Johanna  
(Oceanography)

Title of thesis:

*INTERPRETATION, APPLICATION AND INTEGRATION OF ECOLOGICAL INFRASTRUCTURE IN SYSTEMATIC CONSERVATION PLANNING IN THE COASTAL ZONE*

Supervisor: Prof AT Lombard

Co-supervisor: Dr LR Harris

Co-supervisor: Prof KJ Sink

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TOLSMA, Minke  
(Oceanography)

Title of thesis:

*A CASE STUDY ASSESSMENT OF THE ECOLOGICAL AND SOCIAL STATUS OF THE SOUTH AFRICAN BOAT-BASED WHALE-WATCHING INDUSTRY*

Supervisor: Prof AT Lombard

Co-supervisor: Dr G Penry

Co-supervisor: Dr M Brown

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## **DOCTOR OF PHILOSOPHY IN TEXTILE SCIENCE**

PANDARUM, Krishnavellie

Title of thesis:

*AN EVALUATION OF BODY VOLUME INDEX FOR FEMALE BODY MORPHOTYPING AND CLOTHING SIZING*

Supervisor: Prof L Hunter

Co-supervisor: Dr SC Harlock



## DOCTORAL CITATIONS



## FACULTY OF SCIENCE

# THE DEGREE OF DOCTOR OF PHILOSOPHY (OCEANOGRAPHY)

**MFUNDO BIZANI**

## **Previous qualifications:**

2010 Bachelor of Science (Zoology and Entomology)  
2011 Bachelor of Science Hons. (Zoology)  
2013 Master of Science (Zoology)

University of Fort Hare  
University of Fort Hare  
University of Fort Hare



## **Thesis:**

*ZOOPLANKTON DYNAMICS OF ALGOA BAY (SOUTH AFRICA) UNDER VARYING OCEANOGRAPHIC CONDITIONS*

Ocean plankton is ecologically significant owing to their role in nutrient cycling, energy transfer in pelagic food chains and their mechanistic links with oceanic and climate processes. Responses to environmental change is rapid with consequences for the entire food chain. This study investigated coastal zooplankton dynamics in relation to oceanographic processes and episodic events. The research highlighted the influence of small- and large-scale ocean and climate phenomena as factors driving seasonal and interannual trends of zooplankton biomass. The study further demonstrated the impact of a harmful algal bloom on zooplankton at community level, with evidence to suggest a regime shift has occurred within the pelagic ecosystem of Algoa Bay.

Supervisor: Dr SHP Deyzel  
Co-supervisor: Prof R Perissinotto

# THE DEGREE OF DOCTOR OF PHILOSOPHY (ZOOLOGY)

**EUGIN BORNMAN**

**Previous qualifications:**

2015 Bachelor of Science  
2016 Bachelor of Science (Hons)  
2018 Master of Science

Rhodes University  
Rhodes University  
Nelson Mandela University



**Thesis:**

*IMPACTS OF ALGAL BLOOMS IN A TEMPERATE ESTUARINE FISH NURSERY AREA, SOUTH AFRICA*

This research presents novel work on the deleterious effects of harmful algal blooms (HABs) on the fishes in a South African estuary by adopting an ecosystem approach to interpretation. This was coupled with acoustic telemetry tracking of an important species to show active avoidance of water of poor quality. It is also the first study worldwide to link tumorous growths in the gill tissue of fishes exposed to HABs in an estuary. The findings highlighted the importance of nutrient management from catchment activities to limit HABs and protect estuarine fish nursery habitats.

Supervisor: Prof NA Strydom  
Co-supervisor: Prof JB Adams

# THE DEGREE OF DOCTOR OF PHILOSOPHY (ZOOLOGY)

**JONATHAN AUBREY BOTHA**

## **Previous qualifications:**

2014 BSc Environmental Science  
2015 BSc Honours (Zoology)  
2017 Master of Science

Nelson Mandela Metropolitan University  
Nelson Mandela Metropolitan University  
Nelson Mandela University



## **Thesis:**

*THE FORAGING ECOLOGY OF FEMALE CAPE FUR SEALS (ARCTOCEPHALUS PUSILLUS PUSILLUS) IN SOUTH AFRICA*

Using a variety of modern techniques, this study is the first to provide a detailed assessment of the foraging ecology of female Cape fur seals breeding on the coast of South Africa. This work highlights geographic, temporal and individual-based aspects in the behaviour and habitat use of this species. In addition, it is one of the first to assess the impacts of foraging strategies on prey capture success and efficiency in a free ranging marine predator. The results from this study will provide greater context for understanding areas of importance to Cape fur seals, informing management and conservation efforts, and predicting the response of this functionally important marine predator to climate change.

Supervisor: Prof PA Pistorius  
Co-supervisor(s): Prof AT Lombard  
Dr S Kirkman  
Prof J Arnould



# THE DEGREE OF DOCTOR OF PHILOSOPHY (BOTANY)

**MARION HOLMES**

## **Previous qualifications:**

2009 Bachelor of Science  
2012 Honours Bachelor of Science  
2016 Master of Science

University of South Africa (UNISA)  
North-West University  
North-West University



## **Thesis:**

*CAN DIATOMS BE USED AS A BIOMONITORING TOOL FOR SURFACE AND GROUNDWATER? TOWARDS A BASELINE FOR KAROO WATER*

The biodiversity of aquatic organisms in the Karoo is understudied. Diatoms are single-celled algae found in most aquatic environments. Diatoms were sampled from reservoirs storing underground water, as well as from above ground water sources. These species were correlated with measured water chemistry variables and indicator species of water types were identified. This study identified the water chemistry drivers which shape the diatom community of these habitats. This allowed for the establishment of a species baseline for Karoo waters which allows diatoms to be used as ecological indicators to inform further water quality studies and management decisions.

Supervisor: Prof EE Campbell  
Co-supervisor(s): Prof MJ de Wit  
Prof JC Taylor

# THE DEGREE OF DOCTOR OF PHILOSOPHY (BOTANY)

## THANDI NTHABISENG MMACHAKA

### Previous qualifications:

2008	BSc (Environmental and Water Science)	University of the Western Cape
2009	BSc Hons (Environmental and Water Science)	University of the Western Cape
2014	Master of Science (Environmental and Water Science)	University of the Western Cape



### Thesis:

*SMART CATCHMENT MANAGEMENT AND APPLICATION IN THE SWARTKOPS RIVER AND ESTUARY*

This study made an original contribution to the knowledge field by addressing smart catchment management and application in the Swartkops catchment. Decision support tools were developed for stakeholders to report pollution incidents and query water use license applications. Innovative methods for water quality improvement were identified. This is the first study in the country to design and test a sustainable drainage systems (SuDs) treatment train for the reduction of pollution inputs to an estuary. These findings have been integrated in the Department of Water and Sanitation management practices and assist with the implementation of the Swartkops Estuary management plan. Recommendations were made for improved water quality monitoring and governance.

Supervisor: Prof B Snow  
Co-supervisor: Prof JB Adams

# THE DEGREE OF DOCTOR OF PHILOSOPHY (OCEANOGRAPHY)

**MYRIAM JOHANNA PERSCHKE**

**Previous qualifications:**

2012 Bachelor of Science (Biology)

Ludwig-Maximilians-University

2015 Master of Science (Marine Environmental Sciences)

Carl von Ossietzky University



**Thesis:**

*INTERPRETATION, APPLICATION AND INTEGRATION OF ECOLOGICAL INFRASTRUCTURE IN SYSTEMATIC CONSERVATION PLANNING IN THE COASTAL ZONE*

This study investigated ecological infrastructure as a framework for mapping ecosystem services for integration into systematic conservation planning. The emerging ecological infrastructure concept was distilled into a coherent definition, and 17 recommendations were made to support its application in systematic conservation planning. A flexible and spatially accurate method to map and comprehensively evaluate ecological infrastructure performance was also developed. The implications of including ecological infrastructure with and without equitable access, alongside biodiversity features, in systematic conservation planning processes were quantified in the South African coastal zone. These methods provide a new approach for long-term integrated planning for people and nature.

Supervisor: Prof AT Lombard

Co-supervisor(s): Dr LR Harris

Prof KJ Sink

# THE DEGREE OF DOCTOR OF PHILOSOPHY (OCEANOGRAPHY)

**MINKE TOLSMA**

## **Previous qualifications:**

2011 BSc (Genetics and Zoology)  
2012 BSc Hons (Ecological Sciences)  
2015 MSc (Conservation Biology)

University of KwaZulu-Natal  
University of KwaZulu-Natal  
University of Cape Town



## **Thesis:**

*A CASE STUDY ASSESSMENT OF THE ECOLOGICAL AND SOCIAL STATUS OF THE SOUTH AFRICAN BOAT-BASED WHALE-WATCHING INDUSTRY*

Boat-based whale-watching (BBWW) is a rapidly growing industry globally and in South Africa (SA). This study measured the social and ecological status of the SA BBWW industry, using a case study, to inform its long-term sustainability. Results show that tourists are mostly satisfied with industry performance but are often poorly informed. Cetacean responses to vessels varied by species and in intensity, suggesting a potential risk to ecological sustainability if not managed appropriately using a multifaceted and precautionary approach. Recommendations to achieve this include species-specific regulations, halted industry growth, spatial/temporal closures, permit revisions, and improved training, advertising, and compliance.

Supervisor: Prof AT Lombard  
Co-supervisor(s): Dr G Penry  
Dr M Brown

# THE DEGREE OF DOCTOR OF PHILOSOPHY IN TEXTILE SCIENCE

## KRISHNAVELLIE PANDARUM

### Previous qualifications:

1986 NHD (Food and Clothing Technology)  
2007 BTech (Fashion) (*Cum Laude*)  
2010 MSc (Textile Science)

M.L. Sultan Technikon  
University of Port Elizabeth  
Nelson Mandela Metropolitan University



### Thesis:

*AN EVALUATION OF BODY VOLUME INDEX FOR FEMALE BODY MORPHOTYPING AND CLOTHING SIZING*

This study explored a novel approach to human body morphotype recognition by considering the Body Volume Index of the total torso length and that block segment along the length of a woman torso. The primary investigation focused on establishing a protocol that incorporated the shape of the body into apparel systems. The body volume index (BVI) approach demonstrated the potential to differentiate varying adiposity levels between and within the same body shape category and torso frame sizes. The proposed guidelines provide an alternate approach to how women's body shapes are classified and how target markets are currently determined in the clothing sector.

Supervisor: Prof L Hunter  
Co-supervisor: Dr SC Harlock



# Honorary Doctoral Recipient

## Noxolo Grootboom - Doctor of Philosophy (*Honoris Causa*)



Celebrated media personality, Noxolo Grootboom, was born on 8 October 1960 in Cacadu (formerly Lady Frere) in the Eastern Cape and completed her formative schooling in the area. During her high school years, she studied

at Lamplough High School and Bethel College, in Butterworth. Moving to Gauteng in 1981 with her siblings, she took a course in computers at a Johannesburg computer academy. Thereafter, she took up a position as a typist at the South African Broadcasting Corporation (SABC) in 1983, seeing this as an opportunity to move into the media space albeit with no formal journalism background.

Three years later, she worked her way up to being appointed as a Production Assistant and received mentoring from fellow journalists. Her love of storytelling and her passion for the isiXhosa language landed her a position as current affairs producer.

A stand-in stint in the newsroom in 1990, reading a news bulletin, impressed the public broadcaster's management and she subsequently became isiXhosa news anchor.

Her ability to authentically deliver fine isiXhosa prose without being theatrical or clichéd in news reporting, and her love for beautiful spoken language and excellent vocal delivery soon resulted in her becoming a much respected and loved news anchor. Her deep understanding of isiXhosa language, culture, customs and traditions, as well as the recognition of our country's linguistic and cultural diversity enabled her to excellently broadcast in isiXhosa, English and other indigenous South African languages.

She prides herself as the storyteller who learnt these ways of knowing through her rural informal teaching in the Eastern Cape. During her SABC years, she anchored the live funeral

broadcasts of high-profile South Africans like Chris Hani, Winnie Madikizela-Mandela, Oliver Tambo, Walter Sisulu, Joe Slovo, Govan Mbeki and the global icon after which our University is named, Nelson Mandela.

With her unique sense of humour and her inimitable knack for the isiXhosa language, Noxolo represents many things that Nelson Mandela University stands for, including the value of healing society from its brutal wounds, while preserving the intellectual heritage of isiXhosa for families across the nation. On 30 March 2021, Noxolo Grootboom delivered her last news broadcast to an audience of almost 4 million people, marking her retirement at the end of a 37-year career. That news broadcast coincided with a "family meeting" by President Cyril Ramaphosa, who duly moved his time slot up by half an hour to allow her audience to witness her final bulletin. A true honour and accolade to a consummate professional of the industry. As with all her bulletins, she ended her broadcast with her well-known mantra, "Ndinithanda nonke emakhaya" which, loosely translated, means "I love you all at home".

Her public service in South African society to translate stories and capture the mood while teaching younger generations of the content and knowledge preserved in language, makes her one of the few news anchors and storytellers who deserve the opportunity to be honoured by "*ukuthweswa isidanga*" (graduation) for the excellent work done in service to society for more than three decades.

For her invaluable work and contribution to journalism, media and communication, as well as her upliftment of the linguistic heritage of South Africa, it is an honour for Nelson Mandela University to confer the degree of Doctor of Philosophy (*honoris causa*) on **Noxolo Grootboom**.

# Honorary Doctoral Recipient

## Lungile Pepeta - Doctor of Health Sciences (*Honoris Causa*) Posthumous



Acclaimed paediatric cardiologist and medical pioneer, Lungile Pepeta, was born on 16 July 1974 in Bizana, Eastern Cape. He matriculated from Bizana Village High School in 1991

and, the following year, enrolled for the MBChB in the Faculty of Health Sciences at the then University of Transkei (now Walter Sisulu University). He graduated in 1997 and completed his internship at Mthatha General Hospital in 1998. In 1999, he joined Frontier Hospital in Komani (formerly Queenstown) and Dordrecht Hospital to fulfil his community service commitments.

Continuing with his studies during his community service year, he obtained a Diploma in Child Health through the Colleges of Medicine of South Africa. In January 2000, Lungile became a Medical Officer in Paediatrics at King Edward VIII Hospital in Durban, KwaZulu-Natal. Six months later, in July 2000, he was appointed as Registrar in Paediatrics at the University of KwaZulu-Natal.

He qualified as a paediatrician in 2003, after passing the Fellowship of Paediatricians of South Africa. Moving back to Frontier Hospital the following year, he was appointed as Head of Paediatrics.

From mid-2004 to the end of 2008, Lungile was a Specialist Paediatrician, full-time Lecturer and Fellow at the Chris Hani-Baragwanath Hospital in Johannesburg - through its affiliated academic institution, the University of the Witwatersrand. During this time, he completed his paediatric cardiology training.

He obtained the Certificate in Cardiology (SA) through the College of Paediatricians of South Africa in 2008.

Returning to his home province in 2009, he spent a short time at the Nelson Mandela Academic Hospital in Mthatha before being appointed as Principal Specialist and later Head

of Department of Paediatrics and Child Health at the Port Elizabeth Hospital Complex. This was where he established the City's first paediatric cardiology unit - at the Dora Nginza Provincial Hospital. He served at this Complex until the end of 2015, while also lecturing in Paediatric Cardiology at the Complex and at Walter Sisulu University. During his time here, he introduced non-invasive procedures to cure heart disorders and defects, such as congenital heart disorder faced by children in the Eastern Cape, and mentored and trained many doctors, particularly in the field of paediatrics.

In 2012 he was awarded a Master of Medicine in Paediatrics from the University of the Witwatersrand and two years later, admitted as a Fellow of the Society for Cardiovascular Angiography and Interventions, USA (FSCAI).

In January 2016, Lungile was appointed as Associate Professor of Paediatrics at Walter Sisulu University and at the Port Elizabeth Hospital Complex. During 2016, he served as the Acting Chief Executive Officer at Dora Nginza Provincial Hospital and Acting Clinical Governance Manager for the same hospital until the end of 2017.

On 1 January 2017, Dr Lungile Pepeta was appointed as the Executive Dean of the Faculty of Health Sciences at Nelson Mandela University. Later that year, he was elected as a member of the Council of Medical Schemes (CMS). He served the Nelson Mandela University community with excellence, demonstrating exceptional leadership through the establishment of the 10th Medical School in South Africa and championing the accreditation of the undergraduate medical programme.

As an active scholar, his contribution in the field of research in paediatric cardiology extends to over 20 research related outputs (inclusive of 11 research articles).

Included in his impressive list of memberships is President of the Paediatric Cardiac Society of South Africa, Vice-President of the South African Heart Association and Executive Member of the South African Paediatric Association.

In 2018, he registered for a Doctor of Philosophy (PhD) in Paediatrics at Stellenbosch University.

As a member of the Board for the Council of Medical

Schemes, he was elected as its chairperson in June 2020, replacing the previous Chair, who succumbed to COVID-19 in May. He was also elected to a 15-member panel of experts, advising the provincial government's COVID-19 taskforce. Later that month, Lungile was hospitalised after contracting the coronavirus and, on 07 August 2020, passed away from complications of the virus at the age of 46.

Professor Lungile Pepeta embodied the Mandela University values, particularly being in the service of society, through public health accountability, advocating for the eradication of the inequities in healthcare provision, especially in remote and under-resourced communities of the Eastern Cape, in particular, and South Africa, as a whole.

For his contributions as a paediatric cardiologist, medical researcher, university professor and activist, and for being a pioneer of the medical industry in South Africa, particularly in child health care, it is an honour for Nelson Mandela University to confer the degree of Doctor of Health Sciences (honoris causa) on **Lungile Pepeta**.



# Honorary Doctoral Recipient

## Sindiso Mfenyana - Doctor of Philosophy (*Honoris Causa*)



Struggle stalwart and ANC veteran, Sindiso Mfenyana was born on 12 March 1940, in Bolotwa, Eastern Cape, and spent his early years in Dophu, near Lady Frere. At the age of five, his family moved to East London, where he began his primary school education.

By 1953, he had passed his primary education with flying colours and was sent to St John's College in Mthatha. He excelled at St John's and, by 1957, was the only matriculant at the school to obtain a first class pass with exemption. During his high school career, his passion for politics began and he regularly attended ANC Youth League (ANCYL) meetings. In matric, he was elected as ANCYL Secretary at St John's.

In 1957, he enrolled for a BSc at Fort Hare University on a scholarship from the Mthatha Bunga (council of tribal chiefs). In December of 1960, Sindiso received an invitation to join the armed resistance that was brewing within the ANCYL. With his father's blessing, he boarded the train from his home in Noupoot and headed for Johannesburg.

During his time in Johannesburg Sindiso learned about the workings and political motivations of the ANC. He also contributed to the struggle by helping to organise the All-in Africa Conference in 1961, where Nelson Mandela was the keynote speaker. The real reason for being in Johannesburg, however, was to prepare him for exile. On 5 January 1962, Sindiso and his cohort left for military training in the Soviet Union. After his training, he was selected to further his MSc Economic Studies at Kiev Economics Institute in the USSR (now Ukraine).

During his time in the USSR, Sindiso met Rita, a graduate in Aeronautical Engineering, whom he married in June 1963 in Kiev. In August 1967, Sindiso graduated from KINE and was posted by the ANC to Hungary, where he remained for three

years, working for the World Federation of Democratic Youth (WFDY). In August 1970, he departed with his family for Cairo to take up the position of ANC representative in Egypt. He was also elected leader of the Afro Asian People's Solidarity Organization during this time. Following his tireless work in Cairo, Sindiso was transferred to the ANC headquarters in Lusaka, Zambia, in 1974. He joined the office of the Secretary General of the ANC and became one of the producers of Radio Freedom, the Voice of the African National Congress and the people's Army uMkhonto Wesizwe. During this time, he also lectured at the Natural Resource Development College in Lusaka.

In 1985, Sindiso was appointed Secretary to then ANC President Oliver Tambo, until he was deployed to the German Democratic Republic (GDR), where he acted as chief representative of the organisation.

In December 1990, as the ANC and Apartheid government began to discuss a peaceful transition of power, Sindiso was called upon, in his capacity as a member of the ANC's National Executive Committee (NEC), to attend talks in Johannesburg. It was the first time he was able to return home in 28 years. He was awarded the Military Veterans Decoration in gold in 1991 for completing 30 years of unbroken service as a committed member of Mkhonto Wesizwe.

In 1992, Sindiso commenced Civil Service training, first at the British Civil Service College in London, and subsequently the US Civil Service College in Pennsylvania.

Just before South Africa's first democratic elections, in March 1994, Sindiso was appointed Under Secretary to the National Assembly and moved to Cape Town. In June 1997, Sindiso was the first Black person to ever be appointed Full Secretary to Parliament in South Africa.

On leaving Parliament, he served as the South African Ambassador in Tanzania from 2004 until his retirement in 2010. After his retirement, he became the member of the ANC Integrity Commission. Whilst in Tanzania, he received an award for meritorious service from the South African Legislatures Secretaries Association. In 2013, he was awarded Batho Pele Life Achiever of the Year, which recognises public servants who

are selfless, dedicated, committed and who go the extra mile in servicing citizens.

In 2017, Sindiso wrote his autobiography “Walking with Giants”, launched by Nelson Mandela University’s Centre for the Advancement of Non-Racialism and Democracy (CANRAD) in April 2018.

For his life-long struggle for South Africa’s liberation, his vocality on anti-corruption and patronage and his firm belief in constitutional democracy, it is an honour for Nelson Mandela University to confer the degree of Doctor of Philosophy (honoris causa) on **Sindiso Mfenyana**.





# Academic Dress

Special academic attire has been designed for office bearers at Nelson Mandela University to be worn at prestigious academic events like graduation.

Each outfit – from that of the Chancellor and Vice-Chancellor to those of the Executive Deans – has been meticulously selected to signify a particular office; this is a tradition that is consistent with leading universities throughout the world. The gowns, caps and hoods of Nelson Mandela University graduates were similarly inspired and are explained in detail below.

Academic dress for graduates at Nelson Mandela University is as follows:

## Doctoral Degrees

**Gown:** Cardinal red polyester cashmere gown with long pointed sleeves pleated up with blue cord and button and lined with blue satin with 125mm facings and a blue collar.

**Hood:** Full shape hood in cardinal red polyester cashmere lined with faculty colour satin and edged around the cowl with 75mm faculty colour ribbon with 15mm blue ribbon overlaid central. 50mm wide straight neckband in cardinal red polyester cashmere, 25mm faculty colour ribbon in centre of neckband with 15mm blue ribbon overlaid central to faculty ribbon.

**Cap:** Round doctor's bonnet in black velvet with faculty colour cord and tassel.

## Master's degrees

**Gown:** Black gown, long pointed sleeves pleated up with blue twisted double cord and button. Similar cord detail is used.

**Hood:** Full shape blue hood lined faculty colour satin and edged around the outside of the cowl with 75mm faculty colour with ribbon. 50mm straight neckband in blue with 25mm faculty colour ribbon centred.

**Cap:** Black mortarboard with blue tassel.

## Postgraduate Diplomas

**Gown:** Black gown, long pointed sleeves pleated up with blue twisted double cord and button. Similar cord detail.

**Hood:** Blue simple shape hood lined silver grey satin. Straight neckband with 15mm faculty ribbon on top edge of neckband and around cowl. 15mm silver grey ribbon on bottom edge of neckband and around cowl spaced 20mm away from the faculty colour.

**Cap:** Black mortarboard with blue tassel.

## Bachelor Honours Degrees

**Gown:** Black gown, long pointed sleeves pleated up with blue twisted double cord and button. Similar cord detail.

**Hood:** Blue simple shape hood lined silver grey satin with 50mm wide straight neckband in faculty colour. Cowl

edged 75mm faculty colour ribbon on the outside.

15mm silver grey ribbon runs along the outer edge of the cowl, overlaid on faculty ribbon and on top edge of neckband.

**Cap:** Black mortarboard with blue tassel.

## Four-Year Bachelor's Degrees (Including Bachelor of Technology Degrees)

**Gown:** Black gown, long pointed sleeves pleated up with blue twisted double cord and button. Similar cord detail.

**Hood:** Blue simple shape hood lined silver grey satin with 50mm wide straight neckband in faculty colour. Cowl edged 75mm faculty colour ribbon on the outside. Silver grey cord runs along the outer edge of the cowl, overlaid on faculty ribbon and on top edge of neckband.

**Cap:** Black mortarboard with blue tassel.

## Three-Year Bachelor's Degrees

**Gown:** Black gown, long pointed sleeves pleated up with blue twisted double cord and button. Similar cord detail.

**Hood:** Blue simple shape hood lined with silver grey satin with 50mm wide straight neckband in faculty colour. Cowl edged 75mm faculty colour ribbon on the outside.

**Cap:** Black mortarboard with blue tassel.

## Advanced Diploma

**Gown:** Black gown, long pointed sleeves pleated up with blue twisted double cord and button. Similar cord detail.

**Hood:** Blue simple shape hood lined with silver grey satin with 50mm wide straight neckband. 15mm faculty colour ribbon on top and bottom of neckband around cowl.

**Cap:** Black mortarboard with blue tassel.

## Diploma

**Gown:** Black gown, long pointed sleeves pleated up with blue twisted double cord and button. Similar cord detail.

**Hood:** Blue simple shape hood with 50mm wide straight neckband. 25mm faculty colour ribbon on centre of neckband.

**Cap:** Black mortarboard with blue tassel.

# Faculty Colours

**Humanities:**

**Business & Economic Sciences:**

**Health Sciences:**

**Law:**

**Education:**

**Science:**

**Engineering, the Built Environment and Technology:**

**Business School:**

Yellow

Plum

Apple green

Grey blue

Orange

Dark green

Light blue

Black and magenta



Messrs T. Birch & Co (Pty) Ltd and its subsidiary, Croft Magill & Watson (Pty) Ltd, have been appointed as official robe maker to the University and as contracted suppliers of choice to students for graduation academic attire.

Photos In Seconds has been appointed as the official photographer of the University.





# Congratulatory Message from the Alumni Association

## Congratulations on your academic achievement!

Welcome to the Nelson Mandela University family. You are now a Nelson Mandela University alumnus.

We would like to take this opportunity to introduce you to the Nelson Mandela University Alumni Association.

Once you have obtained your Nelson Mandela University certificate, diploma or degree you become an alumna/us of the University and a member of the Nelson Mandela University Alumni Association. The Association is recognised by the University Council as a structure of the University. The Association supports and enhances the realisation of the University's vision and mission through maintaining and expanding positive relationships with its members.

## The Role of the Alumni Association Office

The Alumni Association Office is a public relations and projects department responsible for the day-to-day management and running of the Alumni Association, the University Shop and all matters related to alumni engagement. Primarily, we build relationships and maintain strong links with graduates, parents, friends and supporters of the University through events, networks, services, communications and community engagement.

## The Role of Nelson Mandela University graduate

We encourage you to attend the alumni engagement events, be an active alumni ambassador, support your alma mater in a variety of ways including sharing news, expertise, skills, and contributions in cash and kind. We encourage a culture of giving back especially for student bursaries, which can be accessed on our alumni website.

## Mandela Alumni Connect – the online alumni networking platform

Join the Mandela Alumni Connect community - to stay in touch with fellow alumni, get informed about events, career guidance, mentorship initiatives and expand your network. Register on <https://alumni.connect.mandela.ac.za/> Visit our website and follow or connect to our social media channels for more information regarding our alumni digital networking platform.

We welcome your visit to the Alumni Relations Centre on North Campus in Port Elizabeth.

More info: **T** +27 41 504 3935 **E** [alumni@mandela.ac.za](mailto:alumni@mandela.ac.za)

Join us: **Facebook** Nelson Mandela University Alumni **Instagram** Nelson Mandela University Alumni

[www.alumni.mandela.ac.za](http://www.alumni.mandela.ac.za) **Twitter** @MandelaUni

## University Shop

Visit the University Shop situated at the Sanlam Student Village on University Way, Summerstrand, for all Nelson Mandela University branded clothing, corporate gifts, bags and memorabilia!

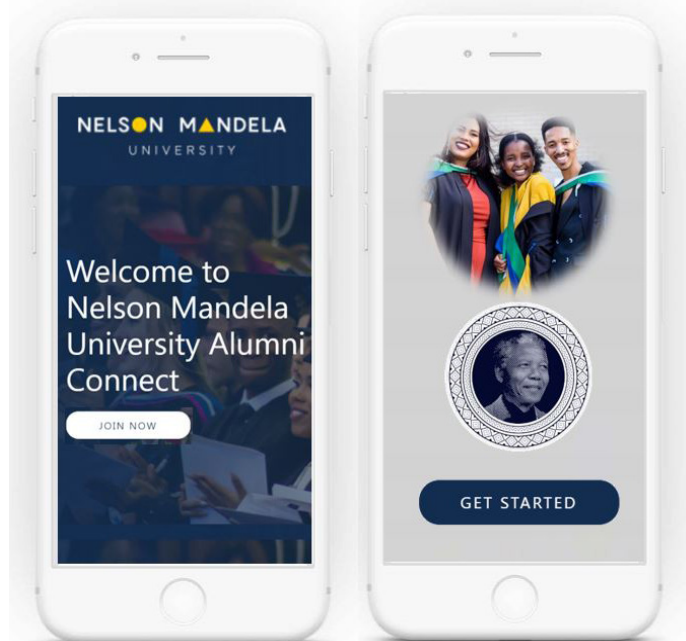
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More info: **T** +27 41 504 4371 **E** [shop@mandela.ac.za](mailto:shop@mandela.ac.za)

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<https://alumni.connect.mandela.ac.za/>



<https://onlineshop.mandela.ac.za/>

# NATIONAL ANTHEM

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Nkosi Sikelel'i-Afrika,  
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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