

**NELSON MANDELA**  
UNIVERSITY



**April 2021**

**Virtual Autumn Graduation**

**Session 5**

**Faculty of Science**

29 APRIL 2021 | 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

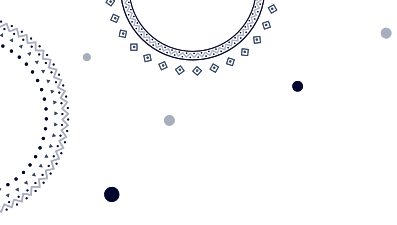
Ubuntu

Social justice  
and equality

Integrity

Environmental  
stewardship





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# Congratulatory Message

Graduation is a significant milestone in anyone's life. It is the culmination of an academic journey that reflects your ambition, determination, commitment, perseverance and hard work. We know that this work 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 us great hope for the future – for you are that future.

Sadly, we are unable to celebrate with you in person because of the COVID-19 pandemic that has transformed our lives – the way we work, study and live. It has changed the way we celebrate your graduation too. For safety reasons,

our Autumn 2021 Graduation season is being hosted virtually.

This should not stop you from marking this milestone occasion from the safety of your homes with your loved ones.

As a student who had to navigate your studies in unprecedented circumstances, we especially salute and applaud your achievement. 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.

Never stop learning. Do not let your spark of curiosity die out, for education is not only your passport to the future – but also to the future hopes of our country, our continent and is indeed a foundation for a better world, as Nelson Mandela so eloquently put it:

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

Congratulations!

Uthweso sidanga ngumsitho obaluleke kunene kwimpilo yomntu. Yinkcochoyi khambo lwemfundo enomsila echaza ukunxanwa kwakho, ukuzimisela, ukuzinikela, ukunyamezela kwanomsebenzi onzima. Siyayazi ukuba lo msebenzi, kumaxesha amaninzi, ayingowakho kuphela, nanjengoko uninzi luthle lwakhenketha nawe – abahlobo bakho, abahlohi bakho, abaphathi bakho, amakhankatha akho kwakunye nosapho lwakho. Babinze kuwe ngokwezimali, bakukhuthaza ukuba unyamezele, bakukhokela kwizifundo zakho, kwaye, kuyo yonke into, bakholelwa kumxakatho wakho wokuphumelela kwanokuzuzisa eli phupha lokuthweswa isidanga.

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

Ngelishwa, asikwazi ukubhiyoza kwakunye nawe njengesiqu

Dr Geraldine Fraser-Moleketi  
Chancellor

ngenxa yobhubhane weCOVID-19 othe watshintsha ubomi bethu – indlela esisebenza ngayo, esifunda kwakunye nesiphila ngayo. Lo bhubhane ukwatshintshe indlela esibhiyoza ngayo uthweso sidanga kwakunye nawe. Ngenxa yemiba yokhuseleko, ixesha lethu loThweso Sidanga laseKwindla ngo2021 liza kwenziwa ngezixhobo zobuxhakaxhaka (virtually).

Oku akufanelanga ukuba kukunqande ekuqapheleni lo msitho obaluleke kangaka, kukhuseleko lwamakhaya enu kwakunye nabo basondele kuni.

Njengomfundi oye waqhuba izifundo zakhe ngeendlela ebezingalindelekanga, sikothulela umnqwazi 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.

Ungaze uyeke ukufunda. Ungavumeli intlantsi yokunxanelwa ulwazi ukuba ife, kuba imfundo ayilogwiba lekamva kuphela – koko ikwalithemba lekamva kwilizwe lethu, izwekazi lethu futhi kwanesiseko sehlabathi elingcono, nanjengokuba uNelson Mandela eyibeka ngokucacileyo:

***"Imfundo lelona krele lakhe  
lanamandla ongathi ulisebenzise  
ukutshintsha ihlabathi."***

Huntshu!

Gradeplegtigheid is 'n belangrike mylpaal in enigeen se lewe. Dit is die hoogtepunt van 'n akademiese reis wat u ambisie, vasberadenheid, toewyding, deursettingsvermoë en harde werk weerspieël. Ons weet dat hierdie werk dikwels nie net u eie is nie, omdat baie mense saam met u gereis het - u vriende, lektore, studieleiers, mentors en u gesin. Hulle het finansiële in u belê, u aangemoedig om te volhard, u studies gelei en bowenal geglo in u vermoë om te slaag en hierdie gradedroom te bereik. Vandag is u vreugde ook ons vreugde. So 'n belangrike oomblik - u gradedag - moet gevier word, want dit erken nie net alles wat u bereik het nie, maar fokus ook op al die potensiaal en moontlikhede wat kom. Dit bied ons groot hoop vir die toekoms

- want u is die toekoms. Ongelukkig kan ons nie persoonlik met u vier nie weens die COVID-19-pandemie wat ons lewens verander het - die manier waarop ons werk, studeer en leef. Dit het die manier waarop ons u gradeplegtigheid vier ook verander. Om veiligheidsredes word ons Herfs 2021-Gradeplegtigheidseisoen virtueel aangebied.

Dit moet u nie verhinder om hierdie mylpaalgeleentheid in die veiligheid van u huise met u geliefdes te vier nie.

As 'n student wat in ongekende omstandighede deur u studies moes gaan, salueer ons veral u prestasie. Dit kon nie maklik gewees het nie. Ons wens u alle sterkte toe vir u pogings in die toekoms, waar hulle u ook al as 'n trotse oudstudent van Nelson Mandela Universiteit mag neem.

Moet nooit ophou leer nie. Laat u vonk van nuuskierigheid nie uitsterf nie, want onderwys is nie net u

paspoort tot die toekoms nie

- maar ook die

toekomstige

hoop

van ons

land en

kontinent

en is inderdaad

'n grondslag vir 'n

beter wêreld, soos

Nelson Mandela dit

so wespreekend gestel

het. :

***"Onderwys is  
die kragtigste  
wapen  
waarmee u die  
wêreld kan  
verander."***

Veels geluk!



**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 responsibilities 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 health environment for all people, and
- Are instilled with a deep need to serve and give back.

## Fast Facts



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

# 481

**PROGRAMMES**

(from certificate through to doctoral qualifications)



**FACULTIES**

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

# 28 523

**ENROLLED STUDENTS**

\* HEADCOUNT AS AT 16 APRIL 2021



- Student access and success
- Resource stewardship
- Engaged innovative scholarship
- Transformative institutional culture
- Talented high-performing staff
- Enabling systems, processes and infrastructure

# 3000

**PERMANENT EMPLOYEES**



# Exciting Prospects



## Ocean Sciences Campus

Our new generation university is set to become the leading “go-to” destination in Africa for all marine and maritime teaching, learning, engagement, innovation and research at postgraduate level.

This follows the launch of the Ocean Science Campus in Summerstrand in September 2017 as part of the University's strategic drive to unlock the potential of the blue economy in a sustainable manner to benefit all South Africans. The development and expansion of our academic programmes will offer new opportunities to all South Africans.

## Intentional Design

The new campus at the former CSIR offices has been intentionally designed and revamped to embrace a transdisciplinary way of working. It has also been specifically branded to reflect its purpose – that of a dedicated creative and innovative hub for postgraduate studies, and its physical spaces revamped to allow scientists from all disciplines to

work as teams. Phase two of the infrastructure project is now underway.

## Partnerships

This transdisciplinary research strategy does not stop with the academic project. Instead, it also seeks to embrace a ‘blue commons’ partnership with the metro, local government, big business, civic society and all those who live, work and play at the water's edge and the oceans. It also includes several international partner universities.

By bringing all players together, all basic, formative and applied professional knowledge competencies in Ocean Sciences are exposed, developed and shared in novel ways. Strategically, this approach offers better options for both discovery research and that of solving real world problems arising from economic need, while always ensuring ecological sustainability.





## New Medical School

The University has accepted its first intake of medical students for 2021 at the country's tenth medical school based on Missionvale Campus.

### Innovative Teaching Model

The University's interprofessional education (IPE) teaching model sees students across the health sciences disciplines, inclusive of the MBChB, study together while also leveraging the benefits of technology.

This model (IPE) sees our student doctors work and study alongside nurses, radiographers, psychologists, environmental health practitioners, pharmacists, emergency medical care students and the like in the community, to offer holistic and integrated health care.

### Mandela University Healthcare Graduates

Mandela University has an underlying philosophy of delivering graduates who are attuned for primary healthcare-oriented practice. Like today's graduates, the University's Medical School graduates will carry on the legacy of the late, great man the institution is named after. This is why the University has paid particular attention to what kind of doctor

it would like to develop through its new medical programme. "We want community-oriented, fit-for-purpose doctors who are skilled to practice medicine that meets the needs of our communities," says Dr Yoshna Kooverjee, who is teaching Theory and Practice of Medicine to the first-year students in 2021.

This graduate profile is based on the seven core competencies listed by the Health Professions Council of South Africa for undergraduate students in medical teaching and learning programmes in South Africa.

### Missionvale Campus

The MBChB programme has been intentionally located on Missionvale Campus, because of its proximity to several clinical platforms, including Dora Nginza Hospital, and because this is the type of environment where accessible healthcare is needed most.

Additionally, it is hoped that the Medical School will serve as a catalyst for positive change in terms of urban renewal in an impoverished area.





# 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)

## **EXECUTIVE DIRECTOR: FINANCE**

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

## **EXECUTIVE DIRECTOR: HUMAN RESOURCES**

MS N BAM: BSocSc(UCT), PGDip(UFH), MBL(UNISA)

## **REGISTRAR**

MR EB DE KOKER: BA(UCT), BAHons(UNISA), MA(Pub Admin) (University of Warwick, UK)

## **DEAN OF STUDENTS**

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

## **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 BJ VAN WYK: NHDip(Technikon Pretoria), NHDip(Ed)(Technikon Wits), BTech(Technikon Pretoria), BCom(UNISA), MTech(Technikon Pretoria), MSc(Southern Mississippi), MBA(Haaga-Helia), PhD(Wits)

## **HEALTH SCIENCES**

PROF D VAN ROOYEN (ACTING): BCur, BCurHons, MCur, PhD, PGD Edu & CC, ACGM, ANSAf

## **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**

PROF A GOVINDJEE: BA, LLB(RU), LLM(UPE), 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 (ACTING): BA(Vista), BAHons, MA Couns Psych (UPE), DPhil (Mandela Uni)



# Order of Proceedings

## **Academic Procession**

### **Constitution of Congregation**

Dr GJ Fraser-Moleketi (Chancellor)

### **Welcome**

Prof SW Muthwa (Vice-Chancellor)

### **Choral Performance**

Nelson Mandela University Choir

### **Conferring of an Honorary Doctoral Recipient**

Dr GJ Fraser-Moleketi (Chancellor)

### **Awarding of Qualifications**

Dr GJ Fraser-Moleketi (Chancellor)

## **Conferring of Doctoral Degrees**

Dr GJ Fraser-Moleketi (Chancellor)

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

Dr GJ Fraser-Moleketi (Chancellor)

## **National Anthem**

Nelson Mandela University Choir

## **Departure of Academic Procession**

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



## **FACULTY OF SCIENCE**

### **HIGHER CERTIFICATE IN VELD FIRE MANAGEMENT**

BIDI, Sive  
CIRA, Aviwe  
COLA, Awonke  
DE SWARDT, Tristin Chandler  
FANDALEKI, Omega Zakhona Anele  
FANI, Nolusindiso Grace  
GQEZI, Tsepo  
GROOTBOOM, Yulrick  
HOBYANI, Mutshidzi  
MAKAPELA, Unam  
MALINGA, Noluthando  
MANTLENTSIKA, Queen Nobantu Aphiwe  
MHARI, Assa Eunice  
MKHWENKWE, Othando  
MNCWANGO, Velemseni Nombuso  
MOHOHLA, Mpho Entle  
NCAPHAYI, Vuyo  
PHEWA, Andiswa Asanda  
PILUSA, Desmond  
SIDAWU, Inga  
VAYISI, Sisipho  
ZIKHALI, Sibusiso Blessing

### **DIPLOMA IN AGRICULTURAL MANAGEMENT**

ABDULLAH, Ra'Eesah  
BAMBISO, Dunyiswa  
BLOM, Juan Migheal  
BORNMAN, Devon Raymond  
CEZA, Inga  
DAWJEE, Yusuf  
DEVU, Soyama  
DYANTYI, Mawande  
ESSAMA MBEZELE, Bernard Yves  
FONYA, Lukhanyo Bruce  
GELDART, Philip Keith  
GOATLEY, Stuart John Buchanan  
GOLI, Abongile  
HALU, Yanga  
HLATSHWAYO, Simthembile Bellindah Chantal  
HLAZO, Zimingawe Luyoyisa  
HOBSON, Oscar John  
JACK, Sinesipho  
JOHNSON, Austin Scott  
JOUBERT, Sean  
KANA, Zandile

KHONKWANE, Phumla  
LUSUNGULO, Okuhle  
MAGADLA, Yongamela  
MANCIZA, Bongeka  
MATYANTYA, Mbali Siyambonga  
MAYAPI, Ayakha  
MBONA, Thabile  
MFAXA, Nqaba Sithembise Siyimfuneko  
MGIJIMA, Zukhanye  
MGOBO, Lonwabo  
MKANZI, Yolanda  
MKHWAMBI, Anathi  
MLINDAZWE, Zintle  
MOTSWI, Mantsha  
MTILENI, Promise  
MTOLO, Zandile  
MUIR, Leonie Yvette  
MZAMO, Bohlokoa Wendy  
NDABA, Anele Nomonde  
NDELU, Penelope  
NGCINGWANA, Nelson Inga  
NGCINGWANA, Sinazo Nontlahla  
NGQAMFANA, Simthembile  
NKANZELA, Nomfusi  
NKONYENI, Okuhle, Xola  
NODAZA, Siposethu Lubabalo  
NOMBOMBO, Mhlali  
NTAKA, Lunguwe Uzukanye  
NXITYWA, Buhle  
PAUL, Unathi  
PHIRI, Bongile Joseph  
PRENTIS, Stephanie Laura  
QUVANA, Luzuko  
RORWANA, Unathi  
SCHOLTZ, Reinhardt Thomas  
SHANGE, Sithembiso Lonathemba  
SIBIYA, Siyanda Simphiwe  
SIFOLO, Sibulele  
SILINGA, Hlalanathi  
SMITH, Mariska  
SOKA, Nandipha  
SONGCA, Aphelele  
TALJAARD, Anro Olivier  
THAFENE, Nosindiso  
TUKWAYO, Mveliso  
TUNDE, Amahle Asakhe

### **CUM LAUDE**

LUNIKA, Miso Nalo  
PISSAS, Dean Alexandra

## DIPLOMA IN ANALYTICAL CHEMISTRY

CAKANA, Athini  
CHAFA, Kadarley Chicco Jeandequize  
JANSEN, Jaydrian Darren  
JOSEPHS, Shane Charles  
LE ROUX, Cuwan Juadean  
LUNINGO, Sibulele.  
MBANJWA, Mahle  
MDIDIMBA, Dayron  
MJI, Hlumelo  
MTETWA, Nompumezo Cynthia  
MTOLI, Sinenjongo  
NDHLOVU, Omphile Basetsana Obakeng  
NDUNA, Andisiwe  
NELANE, Nondi  
NKOMO, Nkosinathi Elvis  
NOMLALA, Yanga  
PEARCE, Kaylin Daniel  
PETER, Unathi  
SIDUMO, Ayakha  
SIKITI, Zizo  
SIPHUTHA, Anelisa  
STRUWIG, Adandre  
TABAKENG, Lesego Remember  
TAYLOR, Deroux Aubrinne  
WAKA, Liyabona  
YALEZO, Mawande Handsome

### **CUM LAUDE**

BUNU, Atupele Anisa

## DIPLOMA IN CHEMICAL PROCESS TECHNOLOGY

KHUNGE, Zwelethu Africa  
MADLAKANE, Ncuthekazi Nxaxheba  
MANTSHONGO, Sandile Morgan  
MASUKU, Sibhekokuhle Issabel  
MBENGO, Lunga  
MBOLEKWA, Lusanda  
MHLEKWA, Vivante  
MNGADI, Ntandazo  
MOYAKE, Manelisi  
MZINI, Siphokazi  
NDZIMA, Anelisiwe  
NTSONTA, Sonwabile Vusumzi  
NYANGA, Sibonokuhle  
PHOKWANE, Kabelo  
ZOTWA, Masizole

## DIPLOMA IN FORESTRY

COOK, Mitchell  
DU PLESSIS, Pieter  
DUKA, Xhantilomzi Dambisa  
JOYI, Lwandile  
KUMKATI, Pheleka  
KWAZA, Vuyolwethu  
LUBANYANA, Nomaswazi  
LUBISI, Nito  
LUSHABA, Ndukwenhle Sifisosethu  
MAJECHA, Ropafadzo  
MARLO, Jeromaine Daveen  
MASANGO, Besabakhe Humphrey  
MASINGA, Sandile Bruce  
MATHEBULA, Siyabonga Blessing  
MAZIBUKO, Sakhisene Nicole  
MBATHA, Nqubeko Mandisi  
MBULI, Landiwe Pertunia  
MFEKETHO, Lihle  
MFENGU, Anathi  
MKHATSHWA, Eddie  
MKHUNGO, Amanda Zamasodi Glamuorgirl  
MKIZE, Anita  
MXOTWA, Sibabalwe Sive  
MYEZA, Ayanda  
NDABENI, Sisekosethu  
NGEYANE, Bongekile Agnes  
NGOMANE, Maron  
NOBHUDLUZA, Sinxolo  
NOTSHIKILA, Thembeka  
NXUMALO, Futhi Welcome  
NZIMANDE, Andile Trustee  
SIGCAU, Luzuko Bathandwa  
SIKHOSANA, Samukelisiwe  
SMITH, Cory Ethan  
SSEMPEBWA, Faridha  
STANDER, Divan Renier  
TENTU, Asamkele  
TWALA, Beauty Nosipho  
XHAKA, Lukhona  
ZITHA, Henny  
ZONDI, Siphesihle Innocent  
ZULU, Simphiwe Perciverence  
ZULU, Thembinkosi Bobokie  
ZUNGU, Wandile Gift

### **CUM LAUDE**

CISHE, Avelile  
GWANTEMI, Godfrey

HERSELMAN, Hanno  
POOL, Jacobus Gerrit  
WOOD, Douglas Thabo

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

ADLAM, Thomas Wiliem Jakobus  
BLEW, Dylan Berrington  
COETZEE, Zoe  
DE KOKER, Neil  
FARAGO, Shivinee  
FERREIRA, Thomas Ignatius Ferreira  
GORHAM, Storm Anne  
GRASSMAN, Arnun Henry  
MBIYOZO, Ophola Likhona  
MCGLADDERY, Hayden Scott  
MCKEE, David Charles  
MEYER, Megan  
NGAMLANE, Thembisa  
NIEUWENHUIZEN, Bartholomeus Kasselmann  
PRETORIUS, Christian  
RAUBENHEIMER, Russel  
RAUTENBACH, Johannes Andries  
STEAD, Tristan  
UYS, Hans Jacob Griesel  
VAN DER MERWE, Louis Daniel  
VISAGIE, James

#### **CUM LAUDE**

DU PLESSIS, Chanelle  
MEYER, Melissa

#### **DIPLOMA IN NATURE CONSERVATION**

BEUKES, Lu-Anne  
BRUWER, Jacqueline  
CAPAZORIO, Julene Cornelia  
CARLSSON, Joshua Andrew  
ELS, Rosalynd-Amy  
JACKSON, Emma-Louise  
JONKER, Edwin Douglas  
KING, Christopher  
KLAAS, Yanga  
MARKIDES, Yasmin Leigh  
MASINA, Nosicelo Bridget  
MUNRO, Frederick Marthinus  
MXABO, Asandile  
NGCEKE, Sinazo Awonke

NGONGWANE, Thuto Boago  
NODONGWE, Lusanda  
PITOUT, Jason Ross  
RYEN, Rebecca  
SCHIPPERS, Claude Lionel  
SIXONXO, Abulele Sande  
TYALA, Mlibo  
VAN ZYL, Christiaan Diedericks  
VENTER, Daniel Theodor  
VOS, Stefani

#### **CUM LAUDE**

CLARK, Callum David  
EDWARDS, Graham Stephen  
FRIEDRICH, Ana Julia  
KINGMA, Matthew John  
KLAVER, Michael  
PEROLD, Amy  
PRAIN, Emma-Leigh  
SANDERS, Dylan  
SIFANELO, Lithembekile Unathi Vuyokazi  
TEIFEL, Kai Eric  
VAN BERGEN, Graham John

#### **DIPLOMA IN POLYMER TECHNOLOGY**

BAM, Lamla  
MADAKANA, Nolusindiso  
MAPEKULA, Inga Zintle  
MWELLIE, Gugu Samara  
PARKIES, Kamohelo Yakhe  
ZONKE, Yonela

#### **DIPLOMA IN WOOD TECHNOLOGY**

RAVELE, Gudani

#### **CUM LAUDE**

MULLER, Peter Ian

#### **NATIONAL DIPLOMA: AGRICULTURAL MANAGEMENT**

NYANDENI, Aphiwe  
SITHELO, Sisonke

## **NATIONAL DIPLOMA: FORESTRY**

DU PLESSIS, Emile Allister Theo  
QINGANA, Tabani Nqabakazi

## **NATIONAL DIPLOMA: NATURE CONSERVATION**

LOTTER, Andries Petrus  
MBUTI, Lusanda

## **BACHELOR OF SCIENCE**

ARRIES, Ciara Sian  
DE LANGE, Jacques  
DU VENAGE, Jacob Pierre  
GRUNDLINGH, Philipp Louw  
JANSE VAN RENSBURG, Daniel Hendrik  
LONGMORE, Connor Lorenzo  
MADISHA, Virginia Ntsepa  
MAPHOLI, Andanani Suzan  
MATSANGAISE, Elroi Tinashe  
MATYANA, Mandilakhe  
MDIKANE, Steven Stephan  
MNYEKEMFU, Mpumalanga  
MTYHOBILE, Amandla  
NGCATSHA, Sigcinile  
O'CONNELL, Tristin Wade  
PULLEN, Luchian Charton Morne  
SCRIBA, Frank Carl  
SOBAYENI, Nopasika  
SOLINJANI, Abulele Zimasa  
STRYDOM, Karlien  
TZITZIKA, Ira

## **CUM LAUDE**

STANDER, Joshua

## **BACHELOR OF SCIENCE (BIOCHEMISTRY, CHEMISTRY AND MICROBIOLOGY)**

ADAM, Muhammad Ameen  
CHAPFIKA, Patience  
CHIBUDA, Leonah Panashe  
CHIMEDZA, Tatenda  
CLOETE, Lariney  
DASI, Lukhanyo

DE FREITAS, Daniel Bernard  
DIKO, Amanda  
DUBE, Tafara Alfred  
ERSULO, Misgana  
FESTER, Michaela Robin  
FROSLER, Hannah Maggie  
HAHN, Chloe Gabrielle  
HAMMOND, Yusuf  
KHOBBO, Lufuno Precious  
LAMBERT, Sean  
LAUBSCHER, Lucian  
MADAMOMBE, Gamuchirai  
MAKHETA, Siyasamkela Cwenga  
MAKWARIMBA, Amanda Constance  
MANYAKANYAKA, Nqabakazi  
MBINI, Inam Gqibelo  
MUSWEWESHIRI, Jasper Just  
MUYUMBA, Eliel Kalenge Sifa  
MÜLLER, Karla  
NTSUNDWANA, Vuyisa Fiona  
NYAHUYE, Perpetua  
PERRING, Clairese Amber  
RICHARDS, Sean Leonard  
RUDOLPH, Carlen  
SEKONYELA, Busisiwe  
SIWELA, Mzwakhe  
THENGWA, Ngwekazi  
TROLLIP, Danica Brione  
VAN DER MERWE, Vicky  
VAN DER VYVER, Kayla  
VAN ROOY, Anneke  
VILJOEN, Zenobia  
WEETMAN, Sarah Elisabeth  
YOKWE, Putuma

## **CUM LAUDE**

BARRON, Nikita  
CUTHBERTSON, Jarryd Pierre

## **BACHELOR OF SCIENCE (BIOLOGICAL SCIENCES)**

DU TOIT, Riaan Joshua  
GHEDI ALASOW, Jamila  
KOLISA, Ziyanda  
SWANEPOEL, Tayla  
THORESSON, Caitlin  
TROSKIE, Linmarie  
WALKER, Tegan



## **CUM LAUDE**

FORBES, Ryan Edward

## **BACHELOR OF SCIENCE (COMPUTER SCIENCE)**

ALLDAY, Christopher Paul  
ANDREWS, Sherwin Ruben  
BOTH, Bouwer  
BOWERS, Devon Everton  
CAIN, Daniel Morrison  
CHAMBERLAIN, Susan  
CHIBVUPE, Rutendo Maggie  
DE KOCK, Seth  
DE WAAL, Gysbert  
DUFFIN, Jason Thorn  
ELIASTAM, Aaron Daniel  
ERASMUS, Dean  
GRANT, Amma  
JONES, Dillon Mark  
KILIAN, Waldo  
KLEINLUGTENBELT, Ethan Thomas  
KOLWENI, Ongeziwe  
MABHONGA, Edmore Kudakwashe  
MAMOMBE, Tinashe  
MANYE, Matlhogonolo  
MANYONGA, Silvester  
MORGAN, Tamera Micaela  
NDIKOLO, Siphosethu Abegail  
PHELPS, Dylan John  
PORTER, Declan  
RAMABALA, Danny Legora  
ROODT, Liam Ethan  
SHEPHERD, James Alan Bruce  
SIBIYA, Thandeka Precious  
SIMON, Stephen Anthony  
SPRENGER, Justin Dean  
TITIYA, Nelisa  
TSHABALALA, Shaun Thulasizwe  
TSOTETSI, Nomsa Christinah  
VAN DER MERWE, Anne Elizabeth  
WILLIAMS, Romeo Zander

## **CUM LAUDE**

BASSON, Alia Nasreen  
DAINES, Justin Brad  
DE JAGER, Amica  
JASSON, Joseph Lewis  
JOHNSTON, Kyle

LEONARD, Jason Pearse  
PARKINSON, Ludévin Roy  
PETERSEIL, Michael Dominique  
SWARTZ, Mari

## **BACHELOR OF SCIENCE (ENVIRONMENTAL SCIENCES)**

BEZUIDENHOUT, Kim Lauren  
CHRISTOFFELS, Casey Jade  
DLAKIYA, Sisipho  
DU PLESSIS, Riaan Johannes  
DUNGULU, Nambita  
FUMBATA, Siphelele  
GONLAG, Shaidan Marc  
GXILISHE, Mongikazi  
IBARZABAL, Ivana Catherine  
INFANTE, Nicole Salome  
LOMBI, Ayanda  
MOON, Lisa  
MOTLATLA, Thato  
NEL, Gert Richard  
NKUNA, Nkateko Princess  
NOTYALWA, Nande Lungelwa  
NTSONDWA, Asithandile  
RANELA, Nqobile Bulelwa Nontuthuko  
SIGIDI, Lwando Mhlali  
SIPUKA, Lesedi Khanya Khanyisile  
WELGEMOED, Cait Vivian

## **CUM LAUDE**

DAVIS, Kristen  
HOEKSTRA, Shaun Pierre  
HOENSBROECH, Marie-Christine Elisa Johanna

## **BACHELOR OF SCIENCE (GEOSCIENCES: GEOGRAPHY AND GEOLOGY)**

DINGANI, Melathisi  
JENTILE, Stela Siyamtanda  
LOURENS, Paul-Leon  
MADYIBI, Sechaba Mso  
MAGAXA, Sikhanyisele  
MARSH, Timothy Stephen Robert  
MUSENGI, Isabel Vimbai  
PONGOLO, Thabang Richard  
SKOSANA, Thandeka Evelyn  
TABALAZA, Azile  
TLOU, Annah Kedibone

ZITO, Mzwanele

### **BACHELOR OF SCIENCE (HUMAN MOVEMENT SCIENCE AND BIOCHEMISTRY)**

CHABAGAE, Katlego Lincoln  
MSOMI, Anelisiwe Lona

### **BACHELOR OF SCIENCE (INFORMATION SYSTEMS)**

LOUW, Mark  
MCHUNU, Nokwanda  
PHIRI, Ahmed  
WILMOT, Nathan

### **BACHELOR OF SCIENCE (PHYSICAL SCIENCE AND MATHEMATICS)**

MCLEAVY, Casey  
NGOZWANA, Siviwe

### **CUM LAUDE**

CAMPBELL, Loren Lisa

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

CUTU, Aphelele  
DE SWARDT, Ryno  
DELLIS, Matthew Ross  
GOMANA, Magcinonke Athenkosi Qamanande  
GOODEN, Sean David  
JANSE VAN RENSBURG, Hein Daniel  
KHONYANE, Nthabeleng Mary Theresa  
KOLWANE, Qhamaninande  
MAKUZENI, Sisanda Mthikazi  
MDEMKA, Sinazo  
MKHATSHWA, Iyazi Obidience  
MKIVA, Nwabisa  
MOTAUNG, Motlatsi Maxwell  
NGWADLA, Innocentia Zuziwe  
NTUKO, Kwenzekile Sanelisiwe  
POSWA, Thabo  
SISWANA, Mihla  
SIYOKO, Nosiphiwo  
TOSE, Celani

TYAM, Mxolisi  
XIMBA, Rambo  
YAWA, Zimkita

### **CUM LAUDE**

DE WAAL, Cameron Donald  
WILMOT, James Michael Keith

### **ADVANCED DIPLOMA IN ANALYTICAL CHEMISTRY**

BRAUNS, Celine Mirelle  
HUMAN, Jacq-Mari  
MALULEKA, Clement  
MAXITI, Lona  
NDZUNGU, Sinelizwi

### **CUM LAUDE**

FRIEND, James  
MANAMELA, Boitumelo

### **ADVANCED DIPLOMA IN FORESTRY**

BROWN, Hilton Sean McIntock  
DE VILLIERS, Jacques Pierre  
DLAMINI, Vuyile  
JOKAZI, Zamokuhle Sihle  
LUDIDI, Onele  
MNGOMA, Bongani Bandzile  
MNYAMANA, Unathi  
QAMBELA, Lungako

### **CUM LAUDE**

MAGAGULA, Tematfombeni Benele

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

GOLDSCHMIDT, Tegan Simone  
LANDMAN, Stuart Alexander  
NDZEKU, Yandisa  
NEFDT, Tiffany Deolynne  
VAN ROOYEN, Nicholas Taylor  
YANG, Liuyi

## **CUM LAUDE**

FERREIRA, Daniel Francois  
FOWLER, Apogée  
ROGERS, Joshua Peter  
SAUNDERS, Benjamin John

## **ADVANCED DIPLOMA IN WOOD TECHNOLOGY**

MALAN, Hercules Paul

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

BUTHELEZI, Thulisile Ncamsile Phindile  
JOZANA, Noluvuko  
KILANI, Mbalentle  
MASIZA, Fortune Zingisa  
MAYEKISO, Mfundo Anxious  
NTOLA, Zusiphe  
PILISANI, Abongile  
SIKUTSHWA, Balungile  
SILWANA, Thozamile Solomon  
XONGWANA, Yanelani

## **BACHELOR OF TECHNOLOGY: FORESTRY**

KHONYASHE, Nontuthuzelo  
KHOZA, Mduduzi Junior  
KING, Tiffany Deidre  
MANGXILA, Aneliseka Lusanda  
MASEKO, Wandile Trevor Bongani  
MATHEBULA, Ntombikayise Charmaine  
MATTHEUS, Reuben  
MEYER, Ulrich Harald  
MKHUMBENI, Linda  
MTHI, Athini Mcebisi Zusipe  
MYALI, Xhanti  
NDLOVU, Nomcebo Thembi  
NGCOBO, Nduduzo Oscar  
PHIRI, Melusi Pholisile  
SHONGWE, Dephney  
SIBETYU, Siposetu  
SIKO, Lindiwe  
SITHOLE, Philani Innocent  
TABETE, Nkululeko Hamilton

## **CUM LAUDE**

VENTER, Tertius

## **BACHELOR OF TECHNOLOGY: GAME RANCH MANAGEMENT**

DE KLERK, Orpa Mari  
DU PLESSIS, Rikus Hugo  
SMITH, Philippus Stephanus

## **BACHELOR OF TECHNOLOGY: NATURE CONSERVATION**

MALGAS, Abongile Bruce

## **BACHELOR OF TECHNOLOGY: WOOD TECHNOLOGY**

CHONCO, Ayabonga Allen Luthando  
MABIZA, Herbert  
MATAMELA, Naome  
MNISI, Vusi Erick  
MURERWA, Simbarashe  
MUSOSO, Ronald  
NDOU, Thinawanga Reliason  
RIGBY, Christopher David  
ZUMANA, Loyiso Chuma

## **BACHELOR OF COMMERCE HONOURS (COMPUTER SCIENCE AND INFORMATION SYSTEMS)**

KANOTANGUDZA, Priviledge  
MAYEKISO, Sakhe  
OLLS, Geoffrey Jonathan  
WHITEHEAD, Amy Alexander

## **CUM LAUDE**

BODLEY, Claire Jane  
SWART, Rachel Frances

## **BACHELOR OF COMMERCE HONOURS (INFORMATION SYSTEMS AND BUSINESS MANAGEMENT)**

LOOKWHY, Chad Wilfred  
NGWIRA, Mervis  
OLIVIER, Heinrich Renier  
SMUTS, Haig

## **BACHELOR OF SCIENCE HONOURS IN PHYSIOLOGY**

JACOBS, Ashleigh  
JOKO, Liso Ongezwa  
NOTWALA, Sibusiso

### **CUM LAUDE**

NEL, Michelle  
THEMBANI, Zaphezulu Zandile Zanele

## **BACHELOR OF COMMERCE HONOURS IN MATHEMATICAL STATISTICS**

TSHANGELA, Zimasa Nelisa

## **BACHELOR OF SCIENCE HONOURS IN BIOCHEMISTRY**

MAFEMERA, Jacqueline Jessiemen

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

DE BEER, Mattheus Andreas  
FOUCHE, Bianke  
HUNT, Kristen Louise  
LAKANE, Chuene Priscah  
MACHITE, Anesu  
METTLER, Temba Samuels  
MPOTULO, Sisipho  
NDOTO, Asiphe  
NTABENI, Amkhita  
TRIPODIS, Christos  
VAN WYK, Mathys Johannes

### **CUM LAUDE**

ISMAIL, Abdul-Lateef  
WHITFIELD, Emily Cailyn

## **BACHELOR OF SCIENCE HONOURS IN CHEMISTRY**

JACOB, Siphosethu  
KAMANGA, Beryl Tariro  
MAHLEBA, Masivuye Momelezi  
MANOGO, Tshepo Simon  
MKUTSWANA, Noxolo  
SIDZATANE, Lisakhanya

### **CUM LAUDE**

BOTHA, Tyler Anthony  
LUPONDWANA, Bubele  
REED, Megan  
SMITH, Lee-Ann

## **BACHELOR OF SCIENCE HONOURS IN COMPUTER SCIENCE AND INFORMATION SYSTEMS**

DANIELS, Mu'Minah  
FANG, Bobby  
FERNANDES, Helder Jose  
HAGEMANN, Matthew Gary  
MEYER, Carl  
MOSS, Tannar Reg  
MUFAMADI, Ceasor  
NCUBE, Sithembile  
RAUTENBACH, Rene

### **CUM LAUDE**

DE VOS, Tiffany Rose  
TISSINK, Kade Devan

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

PRINGLE, Geena

## **BACHELOR OF SCIENCE HONOURS IN FORMULATION SCIENCE**

DYALVANE, Siphosethu  
JACK, Yolando  
MABASO, Mongikazi Yonela  
MAFUYA, Samantha Zoe  
MENZI, Lubabalo  
WALSON, Bestman Menidin



## **CUM LAUDE**

HOUNSELL, Shannon Blair

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

DE KOCK, Camilla Desiree

DINGANI, Melathisi

GUMEDE, Baxolile

LEE, Michelle

MANYUBE, Sibabaliwe

MBIKANYE, Mponyana

MDODA, Zizo

NDHLOVU, Nonduduzo

NETSHISAULU, Rofunwa

## **CUM LAUDE**

WESSON, Cameron Frank

## **BACHELOR OF SCIENCE HONOURS IN GEOLOGY**

KUKA, Sonwabile

MOYANA, Fezile

TAKASHE, Bamanye

## **BACHELOR OF SCIENCE HONOURS IN MATHEMATICAL STATISTICS**

LIGAVHA-MBELENGWA, Mutshinyani

## **CUM LAUDE**

HILMER, Aidan

JENECKER, Jodie Deon

LEWIS, Brynne

MC DONALD, Bernard Marchand

## **BACHELOR OF SCIENCE HONOURS IN MATHEMATICS**

## **CUM LAUDE**

NAUDE, Luan

PHELPS, Dylan John

## **BACHELOR OF SCIENCE HONOURS IN MICROBIOLOGY**

COSTELLO, Terry-Lynn

ERASMUS, Rhowayda Melissa

MOKOATSI, Boitumelo Kelibone

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

## **CUM LAUDE**

ROODT, Roelof Petrus

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

DE KOCK, Charl-Bruce Beylefeld

DUFLOT, Melissa Laura

HAWKES, Sarah Ann

VERMEULEN, Jade

## **CUM LAUDE**

BOWMAKER FALCONER, Kezia Sabrina

PENALUNA, Julia Elizabeth

SMIT, Leigh-Ann

SNYMAN, Hannah

VOGES, Mignon

## MASTER OF SCIENCE (RESEARCH)

BESELE, Kagiso Francis - **Cum Laude**  
(Mathematical Statistics)

Title of dissertation:

ESTIMATING BAYESIAN TOLERANCE INTERVALS FOR A TWO-FACTOR FACTORIAL MODEL

Supervisor: Dr J Hugo

---

BOOYSEN, Jacobus Benjamin  
(Agriculture)

Title of dissertation:

BEEF PRODUCTION POTENTIAL OF BEEF/JERSEY CROSSES IN AN INTENSIVE REARING SYSTEM

Supervisor: Prof R Meeske  
Co-supervisor: Mr HJF Grobler  
Co-supervisor: Mr CS Bhiya

---

BRINK, Zanne  
(Nature Conservation)

Title of dissertation:

LINKING AGROCHEMICAL POLLUTION WITH THE AQUATIC ECOLOGICAL INTEGRITY OF THE TWEE RIVER CATCHMENT, WESTERN CAPE

Supervisor: Dr AG Schmidt  
Co-supervisor: Dr JM Dabrowski

---

BURT, Chloe Ellen  
(Nature Conservation)

Title of dissertation:

AN ASSESSMENT OF DIFFERENT METHODS FOR MEASURING MAMMAL DIVERSITY IN TWO SOUTHERN AFRICAN ARID ECOSYSTEMS

Supervisor: Dr JA Venter  
Co-supervisor: Dr CHA Guerbois  
Co-supervisor: Dr M Keith

---

DE VILLIERS, John Ethan - **Cum Laude**  
(Computer Science and Information Systems)

Title of dissertation:

A BOOTSTRAPPED NEURO-EVOLUTION ALGORITHM FOR MARKOVIAN ENVIRONMENTS

Supervisor: Prof AP Calitz  
Co-supervisor: Prof JH Greyling

---

DLANGAMANDLA, Thabo  
(Forestry)

Title of dissertation:

INVESTIGATING THE SOCIAL IMPACTS OF THE EXIT PROCESS OF COMMERCIAL PLANTATION FORESTRY ON FORESTRY VILLAGES IN THE SOUTHERN CAPE, SOUTH AFRICA

Supervisor: Mr SJ Van Zyl  
Co-supervisor: Dr IC Aucamp

---

DU TOIT, Hendrik Daniel - **Cum Laude**  
(Zoology)

Title of dissertation:

INCIDENCE OF PARASITIC TREMATODES EFFECTS ON THE ENERGETICS AND BEHAVIOUR OF CORYOGALOPS SORDIDUS (FAMILY: GOBIIDAE) RESIDENT IN MICROBIALITE POOLS, WARM TEMPERATE SOUTH AFRICA

Supervisor: Prof NA Strydom  
Co-supervisor: Dr S Welman  
Co-supervisor: Dr GM Rishworth

---

GARDINER, Marcell - **Cum Laude**  
(Mathematical Statistics)

Title of dissertation:

BAYESIAN TOLERANCE INTERVALS AND THEIR APPLICATION TO BALLISTIC GROUPING CONSISTENCY IN COMPETITIVE SHOOTING

Supervisor: Dr J Hugo

---

GORLACH, Nikita Igorevna - **Cum Laude**  
(Mathematical Statistics)

Title of dissertation:

MACHINE LEARNING TECHNIQUES TO ASSESS THE BEHAVIOUR OF EQUITY RETURNS

Supervisor: Prof GD Sharp  
Co-supervisor: Dr WJ Brettenny

---

HAMUKOSHI, Simeon Shiweda  
(Chemistry)

Title of dissertation:

SYNTHESIS OF COUMARIN BASED FLUORESCENT CHEMOSENSORS FOR THE DETECTION OF METAL IONS

Supervisor: Dr N Mama  
Co-supervisor: Mr JMV Ngororabanga

---

HLONGWE, Zola

*(Chemistry)*

Title of dissertation:

*THIAZOLE DERIVATIVES AS POTENTIAL HIV-1 PROTEASE INHIBITORS*

Supervisor: Prof ZR Tshentu

Co-supervisor: Prof CL Frost

---

HONIBALL, Terry-Lee

*(Nature Conservation)*

Title of dissertation:

*ESTIMATING THE POPULATION SIZE OF THREE LARGE CARNIVORE SPECIES AND THE DIET OF SIX LARGE CARNIVORE SPECIES, IN MADIKWE GAME RESERVE*

Supervisor: Dr JA Venter

Co-supervisor: Prof H Fritz

Co-supervisor: Prof MJ Somers

---

JANSEN VAN VUUREN, Amauree

*(Nature Conservation)*

Title of dissertation:

*THE FEEDING ECOLOGY AND HABITAT SELECTION OF SMALL ANTELOPES IN THE OVERBERG RENOSTERVELD, WESTERN CAPE*

Supervisor: Dr JA Venter

Co-supervisor: Dr H Fritz

---

MPAPANE, Nelsiwe Pertunia

*(Nature Conservation)*

Title of dissertation:

*PARTICIPATORY MAPPING OF CULTURAL ECOSYSTEM SERVICES IN THE MOUNTAIN ZEBRA NATIONAL PARK, SOUTH AFRICA*

Supervisor: Prof DJ Roux

Co-supervisor: Dr ABL Currie-Killick

---

MPINGA, Mfundo

*(Zoology)*

Title of dissertation:

*FISH ECOLOGY AND ECOPHYSIOLOGY IN AN ANTHROPOGENICALLY-ALTERED TEMPORARILY OPEN/CLOSED ESTUARY IN THE WARM-TEMPERATE REGION OF THE EASTERN CAPE PROVINCE, SOUTH AFRICA*

Supervisor: Prof NA Strydom

Co-supervisor: Prof R Perissinotto

---





MYBURGH, Albertus Petrus

(Agriculture)

Title of dissertation:

IMPACT OF FEEDING MILK ONCE-A-DAY ON GROWTH AND DEVELOPMENT OF JERSEY CALVES

Supervisor: Prof R Meeske

Co-supervisor: Mr JW Jordaan

---

NDOVELA, Lisakhanya Sizo

(Forestry)

Title of dissertation:

TESTING ALTERNATIVE PINUS SPECIES AND HYBRIDS FOR THE SOUTH AFRICAN STRUCTURAL POLE MARKET

Supervisor: Mr RB Müller

Co-supervisor: Dr CB Wessels

---

NYEMBE, Khulisile Jacqueline

(Zoology)

Title of dissertation:

VARIATION IN FORAGE QUALITY IN SUBTROPICAL THICKET

Supervisor: Prof GIH Kerley

Co-supervisor: Dr M Landman

---

OLIVIER, Ruan - **Cum Laude**

(Mathematics)

Title of dissertation:

ON THE IDEALS AND SEMIMODULES OF COMMUTATIVE SEMIRINGS

Supervisor: Dr S Juglal

Co-supervisor: Mr QN Petersen

---

OOSTHUIZEN, Kenneth Thomas - **Cum Laude**

(Biochemistry)

Title of dissertation:

ANTIPROLIFERATIVE ACTIVITY OF NOVEL RHENIUM COMPLEXES AND MEDICINAL PLANT EXTRACTS

Supervisor: Prof M Van De Venter

Co-supervisor: Dr L Venables

---

PERAL, Christopher Michael

(Zoology)

Title of dissertation:

ESTIMATING ACTIVITY PATTERNS IN CAMERA TRAP STUDIES, AND THE OVERLAP BETWEEN DOMESTIC AND INDIGENOUS UNGULATES

Supervisor: Prof GIH Kerley

Co-supervisor: Dr M Landman

---

PHILLIPS, Antin Paul - **Cum Laude**

(Computer Science and Information Systems)

Title of dissertation:

EVOLUTIONARY ROBOTICS CONTROLLERS WITH LOCATION PERCEPTION FACILITATED BY NEURAL NETWORK-BASED SIMULATORS

Supervisor: Dr MC Du Plessis

---

RAMANTSWANA, Nontethelelo

(Forestry)

Title of dissertation:

ASSESSING COMMUNITY ENGAGEMENT PROGRAMMES TO MITIGATE UNCONTROLLED, DELIBERATELY IGNITED FIRES IN FORESTRY PLANTATION-COMMUNAL LAND INTERFACE, KWAZULU-NATAL, SOUTH AFRICA

Supervisor: Prof CJ Geldenhuys

Co-supervisor: Dr T Mapeto

---

RAUTENBACH, Gustav - **Cum Laude**

(Chemical and Physical Oceanography)

Title of dissertation:

UPWELLING OVER SUBMARINE CANYONS: AN IN-SITU AND MODELLING APPROACH

Supervisor: Prof JC Hermes

Co-supervisor: Dr IFM Halo

Co-supervisor: Dr T Morris

Co-supervisor: Dr JA Veitch

---

ROMAN, Nasstasja

(Microbiology)

Title of dissertation:

ANTIFUNGAL ACTIVITY OF SILVER NANOPARTICLES ON CRYPTOCOCCUS SPECIES

Supervisor: Dr BM Somai

---

THEKWANA, Thembelihle

(Agriculture)

Title of dissertation:

AN ASSESSMENT OF AQUACULTURE POND EFFLUENT ON THE GROWTH AND DEVELOPMENT OF SWISS CHARD (BETA VULGARIS L. VAR. CICLA)

Supervisor: Dr TM Pittaway

---

VHERIWA, Prayer  
(Forestry)

Title of dissertation:

FACTORS AFFECTING THE PERFORMANCE OF THE WOODEN FURNITURE MANUFACTURING INDUSTRY IN THE SOUTHERN CAPE

Supervisor: Mr RB Müller  
Co-supervisor: Dr M Doubell

---

VON SCHOULTZ, Kaamilah  
(Mathematical Statistics)

Title of dissertation:

STATISTICAL MODELLING OF DEGRADATION RATES OF PHOTOVOLTAIC MODULES

Supervisor: Dr WJ Brettenny  
Co-supervisor: Dr CM Clohessy  
Co-supervisor: Prof EE Van Dyk

---

WASSERMAN, Johan De Wet - **Cum Laude**  
(Botany)

Title of dissertation:

RECREATING A WETLAND AT AN ABANDONED SALTWORKS: TOWARDS A REHABILITATION PLAN

Supervisor: Prof JB Adams

---

WATCHURST, Lee  
(Mathematical Statistics)

Title of dissertation:

CLUSTER ANALYSIS FOR GROUP SELECTION IN LAUNCH SALE PREDICTIONS

Supervisor: Dr CM Clohessy  
Co-supervisor: Dr WJ Brettenny

---

WATT, Nathan - **Cum Laude**  
(Computer Science and Information Systems)

Title of dissertation:

DEEP NEURAL NETWORKS FOR ROBOT VISION IN EVOLUTIONARY ROBOTICS

Supervisor: Dr MC Du Plessis

---

WESTRAADT, Edward James - **Cum Laude**  
(Mathematical Statistics)

Title of dissertation:

DEEP LEARNING TECHNIQUES FOR THE CLASSIFICATION OF PHOTOVOLTAIC FAULTS USING INFRARED THERMAL IMAGERY

Supervisor: Dr CM Clohessy  
Co-supervisor: Dr WJ Brettenny

---

## MASTER OF SCIENCE IN TEXTILE SCIENCE (RESEARCH)

SCHEEPERS, Ricardo

Title of dissertation:

*THE EFFECT OF LAUNDERING ON THE PHYSICAL AND THERMAL PROPERTIES OF PHASE CHANGE TEXTILE MATERIALS*

Supervisor: Prof L Hunter

Co-supervisor: Prof C Greyling

Co-supervisor: Prof EE Ferg

---

## DOCTOR OF PHILOSOPHY

BROOKE, Christopher Forrester  
(Nature Conservation)

Title of thesis:

LARGE MAMMALIAN FAUNA OF THE PALAEO-AGULHAS PLAIN: PREDICTING HABITAT USE AND RANGE DISTRIBUTION

Supervisor: Dr JA Venter

Co-supervisor: Prof CW Marean

Co-supervisor: Dr CD Wren

---

CARVALHO, Shandon Luke  
(Botany)

Title of thesis:

FRAGMENTATION OF THE ALBANY THICKET BIOME: CONSEQUENCES FOR THE BIODIVERSITY AND HEALTH OF THICKET FRAGMENTS

Supervisor: Prof EE Campbell

Co-supervisor: Dr DR Du Preez

---

CLARK, Candyce Raine  
(Chemistry)

Title of thesis:

PROBING THE BINDING SITES OF NOVEL 2-SUBSTITUTED IMIDAZOLE-4,5-DICARBOXYLIC ACIDS: TOWARDS NEW IMIDAZOLE BASED DRUGS

Supervisor: Dr R Betz

---

DIX-PEEK, Ross Michael  
(Physics)

Title of thesis:

ADVANCED MULTI-INJECTION LEVEL EL IMAGING CHARACTERISATION OF PV MODULES

Supervisor: Prof EE Van Dyk

Co-supervisor: Dr FJ Vorster

---

JANSE VAN RENSBURG, Stefan  
(Mathematical Statistics)

Title of thesis:

SCORE DRIVEN VOLATILITY MODELS BASED ON SKEWED T-DISTRIBUTIONS

Supervisor: Prof GD Sharp

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LEE, Peter Mattison Clarke  
(Chemistry)

Title of thesis:

A THEORETICAL STUDY OF ALKOXYL RADICAL AND RADICAL CATION MEDIATED CYCLISATION REACTIONS IN UNSATURATED ALKANOLS

Supervisor: Prof CD McClelland

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MANGISA, Siphumlile  
(Mathematical Statistics)

Title of thesis:

A FUNCTIONAL DATA ANALYSIS APPROACH TO UNDERSTAND PATTERNS EMBEDDED WITHIN VARIOUS DATA TYPES

Supervisor: Prof S Das

Co-supervisor: Prof GD Sharp

Co-supervisor: Dr S Ray

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MAWASHA, Tshepo Sylvester  
(Geography)

Title of thesis:

FLASH FLOODS PREDICTION IN SOUTH AFRICAN URBAN AREAS: JUKSKEI RIVER CATCHMENT AS CASE STUDY

Supervisor: Dr HW Britz

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PILLAY, Talicia  
(Oceanography)

Title of thesis:

BENTHIC HABITAT MAPPING USING MARINE GEOPHYSICS AND MACHINE LEARNING ON THE CONTINENTAL SHELF OF SOUTH AFRICA

Supervisor: Dr HC Cawthra

Co-supervisor: Prof AT Lombard

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REED, Jodie Romay  
(Oceanography)

Title of thesis:

SPATIAL FISHERIES MANAGEMENT OPTIONS FOR INCLUSION IN MARINE SPATIAL PLANNING IN SOUTH AFRICA

Supervisor: Prof AT Lombard

Co-supervisor: Dr KJ Sink

Co-supervisor: Prof S Kerwath

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**DOCTOR OF PHILOSOPHY**

MUNTHALI, Robert

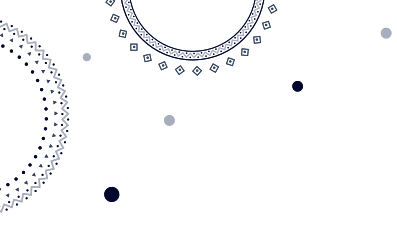
Title of thesis:

*DESCRIPTIVE ANALYSIS OF ORGANIC FARMING PRACTICES IN ZAMBIAN ORGANIC FARMING SYSTEMS*

Supervisor: Prof RMB Auerbach

Co-supervisor: Dr M Mataa

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## DOCTORAL CITATIONS



# THE DEGREE OF DOCTOR OF PHILOSOPHY (NATURE CONSERVATION)

**CHRISTOPHER FORRESTER BROOKE**

**Previous qualifications:**

2015 National Diploma (Nature Conservation)  
2016 Bachelor of Technology (Nature Conservation)  
2018 Master of Science (Nature Conservation) (*Cum Laude*)

Nelson Mandela Metropolitan University  
Nelson Mandela Metropolitan University  
Nelson Mandela University



**Thesis:**

*LARGE MAMMALIAN FAUNA OF THE PALAEO-AGULHAS PLAIN:  
PREDICTING HABITAT USE AND RANGE DISTRIBUTION*

Understanding how large herbivores used historic landscapes poses an interesting ecological question and is key to understanding how early humans used animals for food. The novelty of this study applied relationships with extant species and environments to predict the habitat use and range distribution of extinct large herbivores on a unique grassy ecosystem now submerged off the coast of South Africa, known as the Palaeo-Agulhas Plain. This study explored the behavior and physical characteristics of extinct species and provided detailed accounts of the biomass and probability of occurrence of large herbivores on the Palaeo-Agulhas Plain.

Supervisor: Dr JA Venter  
Co-supervisors: Prof CW Marean  
Dr CD Wren

# THE DEGREE OF DOCTOR OF PHILOSOPHY (BOTANY)

**SHANDON LUKE CARVALHO**

**Previous qualifications:**

2014 Bachelor of Science (Botany and Zoology)  
2015 Bachelor of Science (Hons) (Botany) (*Cum Laude*)  
2017 Master of Science (Botany)

Nelson Mandela Metropolitan University  
Nelson Mandela Metropolitan University  
Nelson Mandela University

**Thesis:**

*FRAGMENTATION OF THE ALBANY THICKET BIOME: CONSEQUENCES  
FOR THE BIODIVERSITY AND HEALTH OF THICKET FRAGMENTS*



This study is the first to investigate the fragmentation status, and to assess the health, of thicket fragments of the Albany Thicket biome in South Africa. Since the initial mapping of the biome in 2002, the solid thicket types have become highly fragmented and have lost more than half of their extent. The dense vegetation of thicket fragments is also subjected to the edge effect, a phenomenon associated with fragmentation. This study used the impact of indigenous herbivores to measure the threshold of healthy thicket and used various vegetation metrics to suggest how to maintain the health of thicket fragment under natural conditions.

Supervisor: Prof EE Campbell  
Co-supervisor: Dr DR Du Preez

# THE DEGREE OF DOCTOR OF PHILOSOPHY (CHEMISTRY)

**CANDYCE RAINE CLARK**

## **Previous qualifications:**

2000 Bachelor of Science  
2001 Bachelor of Science (Hons) (Chemistry)  
2014 Master of Science (Chemistry)

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



## **Thesis:**

*PROBING THE BINDING SITES OF NOVEL 2-SUBSTITUTED IMIDAZOLE-4,5-DICARBOXYLIC ACIDS: TOWARDS NEW IMIDAZOLE BASED DRUGS*

This doctoral study involved the synthesis and characterisation of a series of 2-substituted benzimidazoles and 2-substituted imidazole-4,5-dicarboxylic acid ligands and metal complexes of these ligands. Some novel ligands and complexes, such as 2-(tert-butyl)-imidazole-4,5-dicarboxylic acid were prepared. An interesting intermediate that shows a step towards the ring closing of the imidazole dicarboxylic acid was also isolated from the starting benzimidazole. The compounds synthesised were screened for their antimicrobial activity and promising results were obtained. This study promises the development of compounds such as these for new imidazole-based drugs that can be used in the treatment of infectious diseases.

Supervisor: Dr R Betz

# THE DEGREE OF DOCTOR OF PHILOSOPHY (PHYSICS)

**ROSS MICHAEL DIX-PEEK**

**Previous qualifications:**

2015 Bachelor of Science  
2016 Bachelor of Science (Hons) (Physics)  
2018 Master of Science (Physics) (*Cum Laude*)

Nelson Metropolitan Mandela University  
Nelson Metropolitan Mandela University  
Nelson Mandela University

**Thesis:**

ADVANCED MULTI-INJECTION LEVEL EL IMAGING CHARACTERISATION  
OF PV MODULES



The power output of PV modules is dependent on their opto-electrical properties. Electroluminescence imaging is a widely used technique to qualitatively characterise PV modules. Quantifying these images is important to the research and development of newer PV technology, and for manufacturing quality control. This study developed two methods that make use of current-injection dependent Electroluminescence imaging. The first method can be used to quantify cell electrical characteristic mismatch for industrial application. The second method can be used to characterise each PV cell within a module and using these results simulate the power output of the module under different irradiance conditions.

Supervisor: Prof EE van Dyk  
Co-supervisor: Dr FJ Vorster



# THE DEGREE OF DOCTOR OF PHILOSOPHY (MATHEMATICAL STATISTICS)

STEFAN JANSE VAN RENSBURG

## Previous qualifications:

2006	BCom (Statistics and Economics)	Nelson Mandela Metropolitan University
2008	BCom (Hons) (Mathematical Statistics) ( <i>Cum Laude</i> )	Nelson Mandela Metropolitan University
2009	MCom (Mathematical Statistics) ( <i>Cum Laude</i> )	Nelson Mandela Metropolitan University
2010	Advanced Programme (International and Central Banking)	UNISA and South African Reserve Bank

## Thesis:

SCORE DRIVEN VOLATILITY MODELS BASED ON SKEWED-T DISTRIBUTIONS



This study elucidates the relationship between skewness, robustness and leverage in score driven conditional volatility models. It proposes novel score driven models based on Skewed-t distributions. These models illustrate how the form of skewness affects a score driven model's robustness against outliers. The study also demonstrates the detrimental effects of neglected leverage. This informs the specification of models. An empirical application to the South African equity market shows that these models are competitive with existing volatility models in terms of in-sample fit and tail-risk forecasts. These results are important in the context of financial risk management.

Supervisor: Prof GD Sharp

# THE DEGREE OF DOCTOR OF PHILOSOPHY (CHEMISTRY)

**PETER MATTISON CLARKE LEE**

## Previous qualifications:

21998 Bachelor of Science  
2006 Bachelor of Science (Hons)

University of Port Elizabeth  
Nelson Mandela Metropolitan University

## **Thesis:**

*A THEORETICAL STUDY OF ALKOXYL RADICAL AND RADICAL CATION  
MEDIATED CYCLISATION REACTIONS IN UNSATURATED ALKANOLS*



Alkoxy radicals and radical cations derived from unsaturated alkanols are key intermediates used for the synthesis of numerous compounds that find wide application in organic chemistry, including as pharmaceuticals. It is crucial that the characteristics of these intermediates, as well as the mechanisms by which they react, be thoroughly understood to ensure their optimal use. To this end, the candidate has undertaken an extensive quantum mechanical study at the density functional (DFT) level of theory on the title systems. Various functionals (B3LYP and  $\omega$ B97X-D, the latter also accounting for dispersive interactions) and basis sets ranging from 6-31G\* to larger variants incorporating diffuse and polarization functions, were applied in the study. The results provide detailed insight into the factors that influence cyclisation regioselectivities and in particular the mechanisms by which radical cations undergo nucleophilic ring closure. Modelling of substituent effects in ethylene and benzene radical cations was also carried out, providing understanding of how a wide range of substituents influence reactivity in these systems.

Supervisor: Prof CW McClelland

# THE DEGREE OF DOCTOR OF PHILOSOPHY (MATHEMATICAL STATISTICS)

**SIPHUMLILE MANGISA**

## **Previous qualifications:**

2009 BSc (Mathematics and Statistics)  
2010 BSc (Hons) (Mathematical Statistics)  
2012 MSc (Mathematical Statistics)

Nelson Mandela Metropolitan University  
Nelson Mandela Metropolitan University  
Nelson Mandela Metropolitan University

## **Thesis:**

*A FUNCTIONAL DATA ANALYSIS APPROACH TO UNDERSTAND PATTERNS  
EMBEDDED WITHIN VARIOUS DATA TYPES*



This study investigates the use of the novel Functional Data Analysis (FDA) methods in tackling various data type problems. Strong motivation is provided for the use of interesting opportunities offered by FDA to analyse data. The use of these methods is illustrated using three unique self-contained case-studies from econometrics. The flexibility offered by FDA in analysing complex data relationships is the motivation as the traditional assumptions necessary to carry out time-series analysis are not required in FDA. The results from the various case-studies were informative and provided strong motivation for using FDA methods to study relationships between various data.

Supervisor: Prof S Das  
Co-supervisors: Prof GD Sharp  
Dr S Ray

# THE DEGREE OF DOCTOR OF PHILOSOPHY (GEOGRAPHY)

**TSHEPO SYLVESTER MAWASHA**

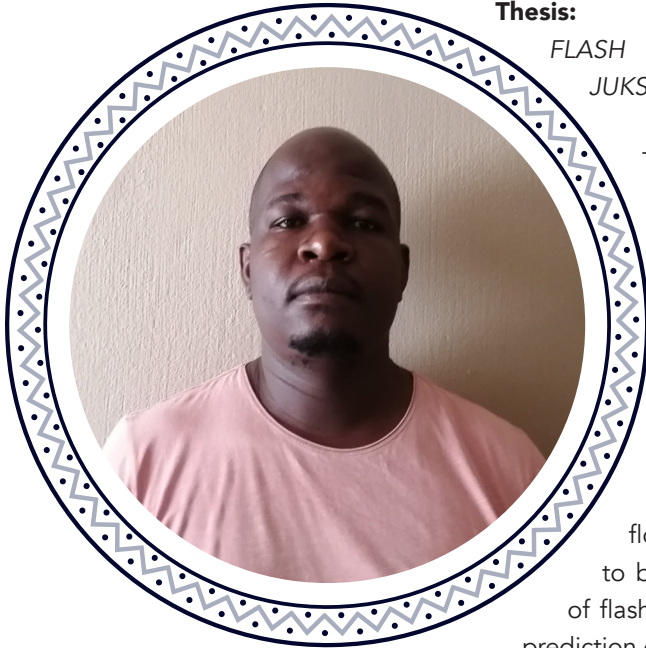
## **Previous qualifications:**

2007 BSc (Environmental and Resource Studies)  
2012 BSc (Hons) (GIS)  
2017 Master of Science (Geography)

University of Limpopo  
Nelson Mandela Metropolitan University  
Nelson Mandela Metropolitan University

## **Thesis:**

*FLASH FLOODS PREDICTION IN SOUTH AFRICAN URBAN AREAS:  
JUJSKEI RIVER CATCHMENT AS CASE STUDY*



Tshepo's research focused on predicting flash floods in urban areas within the Jukskei River catchment. The study explored the change relation of multi-temporal land-use/land-cover (LULC) conditions to determine how they contribute to change in surface runoff volumes and peak discharge to predict flash flooding within the Jukskei River catchment. The analysis of the study revealed that an integrated approach that enables the incorporation of hydrological/hydraulic with Geographical Information Systems (GIS) and remote-sensing techniques has accurately shown the potential to predict catastrophes due to flash floods and to generate floodplain and flood hazard mapping. The findings are expected to be used as a foundation for the identification of causative factors of flash floods, areas that generate high surface runoff volume, and the prediction of flash floods within the catchment area in future. This research has already been presented at two South African Space Agency Student Conferences. Among three chapters of the original research, one chapter has already been published in South African Journal of Geomatics while the remaining chapters are under review. for using FDA methods to study relationships between various data.

Supervisor: Dr HW Britz

# THE DEGREE OF DOCTOR OF PHILOSOPHY (OCEANOGRAPHY)

**TALICIA PILLAY**

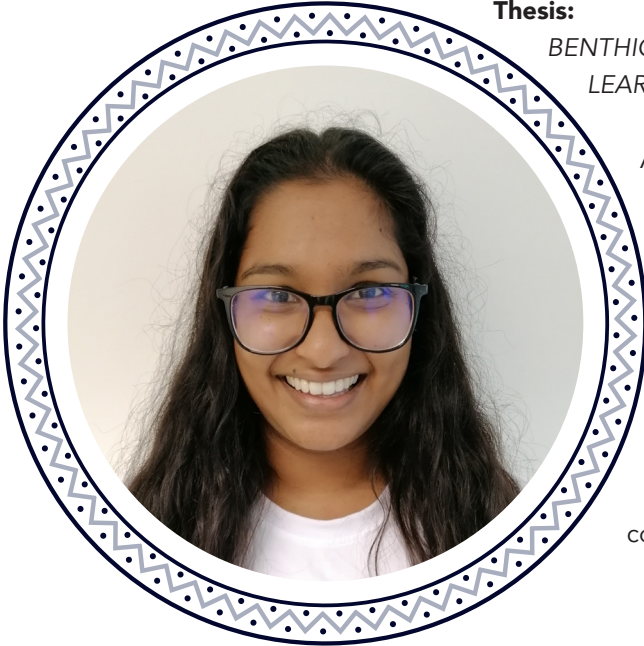
**Previous qualifications:**

2014 Bachelor of Science (Geological Science)  
2015 Bachelor of Science (Hons) (Geology)  
2017 Master of Science (Geology)

University of KwaZulu-Natal  
University of KwaZulu-Natal  
University of KwaZulu-Natal

**Thesis:**

*BENTHIC HABITAT MAPPING USING MARINE GEOPHYSICS AND MACHINE LEARNING ON THE CONTINENTAL SHELF OF SOUTH AFRICA*



A novel method to map seafloor substrates using machine learning, based on multibeam bathymetry, backscatter, and side-scan sonar geophysical data, was developed for the first time in a South African context. Four sites in the Western and Eastern Cape with variable substrate were selected to holistically build the algorithm, following a tiered approach of machine learning. All sites were on the inner shelf (10 – 40 m depth) so that sediment grab samples, remotely operated vehicle (ROV) and drop-camera footage could be collected to ground-truth the algorithm. The benthic habitat maps derived can be used to model biological communities and aid in marine spatial planning.

Supervisor: Dr HC Cawthra  
Co-supervisor: Prof AT Lombard

# THE DEGREE OF DOCTOR OF PHILOSOPHY (OCEANOGRAPHY)

**JODIE ROMAY REED**

## **Previous qualifications:**

2005 Bachelor of Science (Zoology and Physiology)  
2015 Bachelor of Science (Hons) (Zoology)  
2017 Master of Science (Applied Marine Science)

University of Cape Town  
University of Cape Town  
University of Cape Town

## **Thesis:**

*SPATIAL FISHERIES MANAGEMENT OPTIONS FOR INCLUSION IN MARINE  
SPATIAL PLANNING IN SOUTH AFRICA*



This study identified, assessed and further developed spatial management options for fisheries to facilitate the integration of fisheries management and marine spatial planning (MSP). First, existing spatial management instruments were assessed for their ability to support fisheries management, and recommendations were made for their implementation. Second, two contrasting spatial management options (move-on rules and marine protected areas), applied to two pelagic fisheries, were examined to assess their effectiveness at achieving fisheries management objectives with a focus on bycatch reduction. Finally, key recommendations were provided to enable South Africa to provide leadership in integrating spatial options for fisheries management with MSP.

Supervisor: Prof AT Lombard  
Co-supervisors: Dr KJ Sink  
Dr S Kerwath



# THE DEGREE OF DOCTOR OF TECHNOLOGY (AGRICULTURE)

**ROBERT MUNTHALI**

## **Previous qualifications:**

1987	Diploma Technologist (Crop Production)	Technical College, Germany
2001	Postgraduate Diploma (Agricultural Development)	University of London, United Kingdom
2005	Masters (Sustainable Agriculture)	University of Free State
2016	Postgraduate Diploma (Lecturing /Teaching Methodologies)	University of Lusaka

## **Thesis:**

*DESCRIPTIVE ANALYSIS OF ORGANIC FARMING PRACTICES IN ZAMBIAN  
ORGANIC FARMING SYSTEMS*



The Zambian organic sector was studied and it was found that the sector began to grow rapidly in 1990, with support from international donor organisations. However, development slowed down from 2010, due to a reduction in donor support, and subsequent demise of the Organic Producers and Processors Association of Zambia, the organisation that was spearheading the organic movement in the country and many farmers disadopted organics and reverted to conventional farming through accepting the provision of agrochemical inputs. This conventional assistance meant that many viable but vulnerable small-scale farmers ceased using organic farming methods. The farmers who stayed with organic farming were very satisfied with the system. In strengthening organic farming, rural household food security in Zambia can be supported through promotion of environmentally responsible farming systems.

Supervisor: Prof RMB Auerbach

Co-supervisor: Dr M Mataa



# 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 Information 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 alumnus 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 Relations Office is responsible for the day-to-day 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 alumni engagement events, be active alumni ambassadors, support your alma mater in a variety of ways including sharing news about your achievements, sharing your expertise and skills, and contributing supporting your alma mater's fundraising programmes. We encourage a culture of giving back especially for student bursaries, which can be accessed on our alumni website.

## Support the University Shop

The Alumni Association established the University Shop in support of institutional brand development. Your support of the University Shop makes it possible for the Association to also support its own and other institutional programmes. The University Shop is situated at the Sanlam Student Village on University Way, Summerstrand. Visit the University Shop for all Nelson Mandela University branded clothing, corporate gifts, bags and memorabilia!

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

Join us: **f** Nelson Mandela University Alumni **in** Nelson Mandela University Alumni  
[www.alumni.mandela.ac.za](http://www.alumni.mandela.ac.za) **@MandelaUni**

## Lifetime connection with Nelson Mandela University

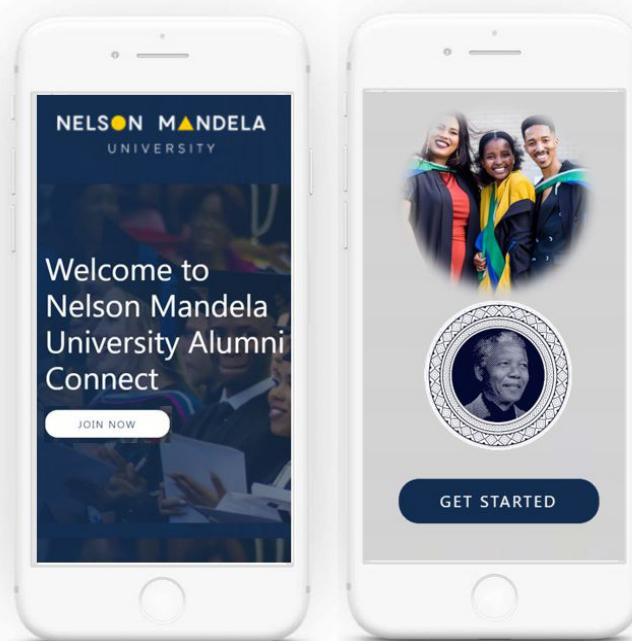
We are proud of our alumni and we value your connection. We encourage you to stay in touch by updating your graduate profile. We will keep you informed regarding University developments and alumni news through our event invitations, project and campaign updates and regular e-newsletters.

Join the Nelson Mandela University Alumni Connect community. Visit our website and follow or connect to our social media channels for more information regarding our alumni digital networking platform.

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

Join us: **f** UniversityShopMandelaUni **in** Universityshop\_mandelauni  
[www.shop.mandela.ac.za](http://www.shop.mandela.ac.za) **@ShopMandelauni**

**Stay connected to your alma mater! #MandelaAlumni4Life!**



# 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

[mandela.ac.za](http://mandela.ac.za)

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