

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

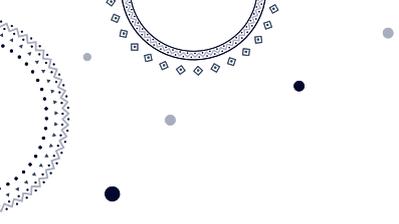
Diversity

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:

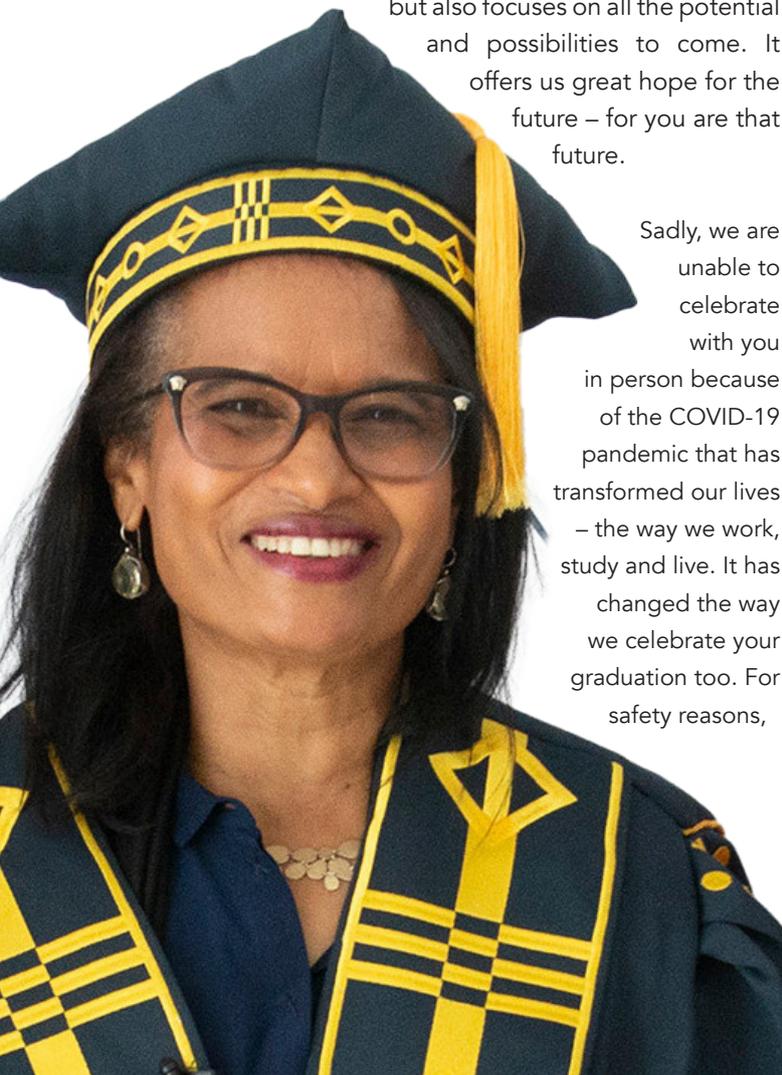
“Education is the most powerful weapon which you can use to change the world.”

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 enigee 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 finansieel 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 welsprekend 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



7
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)

28 523

ENROLLED STUDENTS

* HEADCOUNT AS AT 16 APRIL 2021

6 STRATEGIC RESEARCH AREAS

3000

PERMANENT EMPLOYEES

7 FACULTIES

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

6 STRATEGIC PRIORITIES

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

 **2.89%**
OF THE STUDENTS COME FROM

51 DIFFERENT COUNTRIES

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.

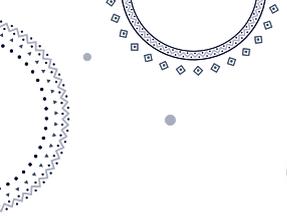
This graduate profile is based on the seven core competencies listed by the Health Professions Council of South Africa for undergraduate students in medical teaching and learning programmes in South Africa.

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

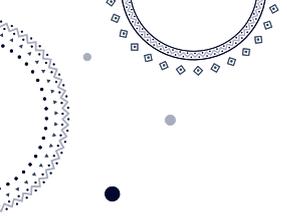
MR EB DE KOKER: BA(UCT), BAHons(UNISA), MA(Pub Admin) (University of Warwick, UK)

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

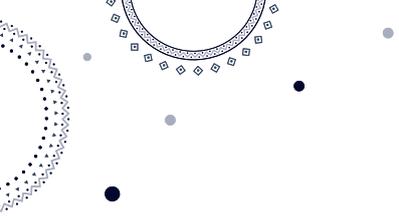
PROF A GOVINDJEE: BA, LLB(RU), LLM(UPE), LLD(NMMU)

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
GQEZE, 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
MANCEZA, 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, Mihlali
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, Likhona
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, Arnu 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
MWEILLIE, 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, Mandlakhe
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
KHOBO, 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
BOTHA, 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, Sipehelele
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 Viviann

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 Mclintock
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, Tshupo 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 Geldenhuis

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



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

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

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

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

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

DOCTOR OF PHILOSOPHY

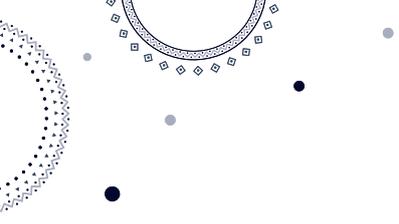
MUNTHALI, Robert

Title of thesis:

DESCRIPTIVE ANALYSIS OF ORGANIC FARMING PRACTICES IN ZAMBIAN ORGANIC FARMING SYSTEMS

Supervisor: Prof RMB Auerbach

Co-supervisor: Dr M Mataa



DOCTORAL CITATIONS



THE DEGREE OF DOCTOR OF PHILOSOPHY (NATURE CONSERVATION)

CHRISTOPHER FORRESTER BROOKE

Previous qualifications:

2015	National Diploma (Nature Conservation)	Nelson Mandela Metropolitan University
2016	Bachelor of Technology (Nature Conservation)	Nelson Mandela Metropolitan University
2018	Master of Science (Nature Conservation) (<i>Cum Laude</i>)	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	University of Port Elizabeth
2001	Bachelor of Science (Hons) (Chemistry)	University of Port Elizabeth
2014	Master of Science (Chemistry)	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	Nelson Metropolitan Mandela University
2016	Bachelor of Science (Hons) (Physics)	Nelson Metropolitan Mandela University
2018	Master of Science (Physics) (<i>Cum Laude</i>)	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 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:
JUKSKEI 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

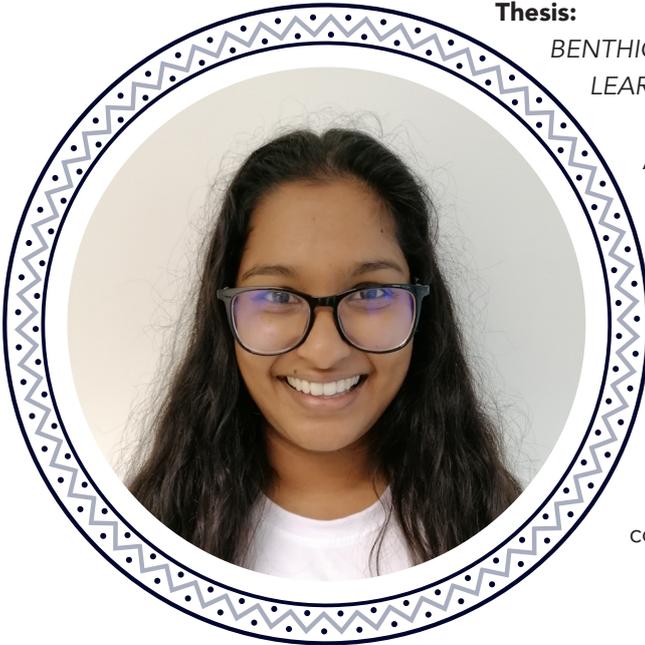
Previous qualifications:

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)

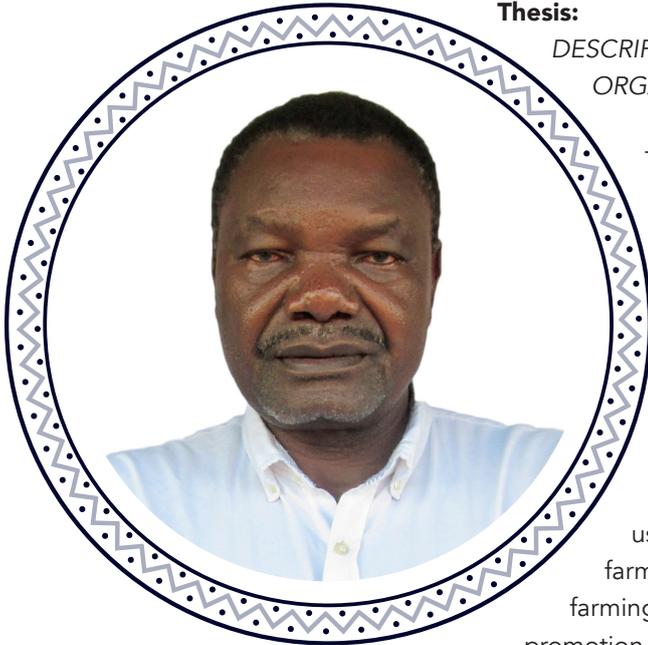
ROBERT MUNTHALI

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 famers 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

Join us: **f** Nelson Mandela University Alumni **in** Nelson Mandela University Alumni
www.alumni.mandela.ac.za **@MandelaUni**

Lifetime connection with Nelson Mandela University

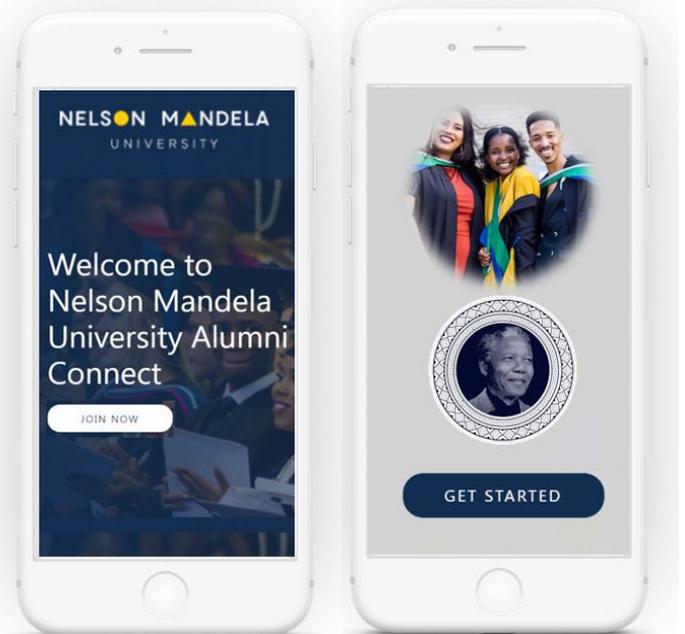
We are proud of our alumni and we value your connection. We encourage you to stay in touch by updating your graduate profile. We will keep you informed regarding University developments and alumni news through our event invitations, project and campaign updates and regular e-newsletters.

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

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NATIONAL ANTHEM

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

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