

NELSON MANDELA
UNIVERSITY



April 2023
Autumn Graduation
Ceremony 2
Faculty of Science

4 APRIL 2023 | 14:30



VISION

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

MISSION

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

VALUES

Excellence

Diversity

Ubuntu

Social justice and equality

Integrity

Sustainable stewardship

Diversity

Excellence

Ubuntu

Social justice
and equality

Integrity

Sustainable
stewardship

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Congratulatory Message

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

encouraged you to keep going. But above all, they have believed in your ability to succeed and achieve this graduation dream.

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

Your education is your passport to the future – and the future hopes of our country and continent.

Indeed, education, is the foundation to a better world. As our namesake Nelson Mandela so eloquently put it:

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

Today your joy is our joy too.

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

Congratulations!

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

Namhlanje sibhiyozela hayi nje othe wakuzuza, kodwa okulithemba lokuqhubekela phambili mayelana namandla owathweleyo njengothweswe isidanga kwaye ebengumfundi waseNelson Mandela University.

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

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

Namhlanje uvuyo lwakho luvuyo lwethu nathi.

Dr Geraldine Fraser-Moleketi
Chancellor

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

Huntshu!

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

Vandag vier ons nie net wat jy bereik het nie, maar ook dit wat dit vorentoe beloof in terme van jou potensiaal as 'n gegradueerde en alumnus van die Nelson Mandela Universiteit.

Jou geleerdheid is jou paspoort na die toekoms – en die toekomshoop van ons land en kontinent. Inderdaad, onderwys is die grondslag vir 'n beter wêreld. Of soos Nelson Mandela dit so welsprekend gestel het:

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

Vandag is jou vreugde ook ons vreugde.

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

Veels geluk!



**Professor Sibongile Muthwa
Vice-Chancellor**

About Nelson Mandela University



Dynamic and forward-thinking, Nelson Mandela University is a leader in generating cutting-edge knowledge for a sustainable future.

As a socially-embedded African university in the service of society, we offer a range of life-changing educational experiences, impactful research and innovation, and transformative engagement for a better world. We strive to change the world.

All of these are rooted in and informed by recent milestones in the University's history, such as the 2017 name change to Nelson Mandela University, the Vice-Chancellor's listening campaign and her inaugural address. This name took over from Nelson Mandela Metropolitan University, which itself

was the result of the merging of the PE Technikon, the University of Port Elizabeth and the Port Elizabeth campus of Vista University.

Today Nelson Mandela University is a sought-after educational destination in South Africa and the only higher education institution in the world to carry the name of Nelson Rolihlahla Mandela.

What we offer

Along with a first-class academic education, Nelson Mandela University provides students with a vibrant student life reflecting their involvement beyond the classroom. It is all part of the drive to produce holistic graduates who are life-long learners as well as socially

conscious and responsible global citizens.

Our campuses

Our seven campuses have a large footprint in Nelson Mandela Bay and George, and this is growing. In 2022 alone, we invested three-quarters of a billion rand in campus infrastructure. It's a massive investment in both the University and in the infrastructure of the city, contributing to its economy and urban renewal.

Our campuses

Bird Street Campus

George Campus

Missionvale Campus

North Campus

Ocean Sciences Campus

Second Avenue Campus

South Campus

Six of our campuses are in Gqeberha, in Nelson Mandela Bay, in the Eastern Cape Province. Four are in Summerstrand, one is in Bird Street in Central, and one in Missionvale. Our North and South campuses in Summerstrand are on a 840-hectare private nature reserve.

The seventh – our George Campus – is on the Garden Route, midway between Nelson Mandela Bay and Cape Town. Set at the foot of the Outeniqua Mountains, our “sustainability” campus is home to two centres of excellence – the School of Natural Resource Management and the School for Business and Social Sciences. It's where our ecological footprint meets business acumen for a sustainable future.

Ground-breaking projects

Medical School

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

on primary health care.

Ocean Sciences

The University has developed a range of marine and maritime education and training, research, innovation and engagement programmes to support Africa's blue economy that stretch across and within disciplines. Nelson Mandela University was ranked as the top institution in South Africa for UN Sustainable Development Goal Four: Life Below Water in 2021 <https://international.mandela.ac.za/About-Us/Mandela-International-News/News/Nelson-Mandela-University-shines-in-the-Times-High>.

Revitalising the Humanities

Our critical engagement with what it means to revitalise the humanities includes a focus on decoloniality and indigenous knowledges, with a quest to awaken transdisciplinary African scholarship and systems of thought.

Engagement and Transformation

We are on a journey of engagement and transformation, using humanising pedagogy to create an environment for learning to thrive in a socially just world. In co-creating the transformative, responsive university, in part through our Hubs of Convergence, we are making a difference in our communities.

Digitalisation

We are investing significant resources in advancing digitalisation in pursuit of excellence. This includes addressing the digital divide, broadening access to mobile devices and data connectivity, and upskilling students and staff for flexible modes of learning and work.

Sustainability

The University aims to contribute to the three indivisible dimensions of sustainability – economic, social and environmental – to promote a fair, liveable and viable world. Sustainability and responsible resource stewardship are critical enablers to support our drive to be an institution in the service of society.



Fast Facts

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



379 PROGRAMMES
(FROM CERTIFICATE THROUGH TO DOCTORAL QUALIFICATIONS)

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



30 757 ENROLLED STUDENTS

6 INSTITUTIONAL RESEARCH THEMES

2 254 PERMANENT EMPLOYEES



STRATEGIC FOCUS AREAS



727 INTERNATIONAL STUDENTS



43 DIFFERENT COUNTRIES

Office-Bearers of the University

CHANCELLOR

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

CHAIRPERSON OF COUNCIL

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

VICE-CHANCELLOR

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

DEPUTY VICE-CHANCELLOR: ENGAGEMENT AND TRANSFORMATION

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

DEPUTY VICE-CHANCELLOR: LEARNING AND TEACHING

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

DEPUTY VICE-CHANCELLOR: PEOPLE AND OPERATIONS

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

DEPUTY VICE-CHANCELLOR: RESEARCH, INNOVATION AND INTERNATIONALISATION

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

DEAN OF STUDENTS

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

EXECUTIVE DIRECTOR: FINANCE

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

REGISTRAR

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

PRESIDENT OF ALUMNI ASSOCIATION

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



Executive Deans of Faculties

BUSINESS AND ECONOMIC SCIENCES

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

EDUCATION

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

ENGINEERING, THE BUILT ENVIRONMENT AND TECHNOLOGY

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

HEALTH SCIENCES

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

HUMANITIES

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

LAW

Dr L Biggs: BCom (Law), LLB(UPE), LLM (Labour Law) (Cum Laude), LLD (NMMU)

SCIENCE

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

DEAN OF LEARNING AND TEACHING

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

Order of Proceedings

Entrance of Academic Procession

Moment of Silence

Constitution of Congregation and Welcome

Vice-Chancellor

Choral Item

Nelson Mandela University-George Campus Choir

Awarding of Qualifications

Vice-Chancellor

Conferring of Doctoral Degrees

Vice-Chancellor

Message of Congratulations and Dissolution of Congregation

Vice-Chancellor

National Anthem

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

Departure of Academic Procession

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

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



FACULTY OF SCIENCE

DIPLOMA IN AGRICULTURAL MANAGEMENT

BADI, Zikhona Megan
DLOKWENI, Mzingisi
DU PLESSIS, Miné
GAGA, Sivuyile
GENU, Sinalo
GODFREY, Brandon John
KENQU, Qaqamba
LUBAMBO, Zimi Kamvalethu
MANZI, Nomawabo
MASHELE, Judgement
MCE, Nomnikelo
MOSTERD, Scott
MPANANA, Siphamandla
MPOTULA, Phelo Arthur Brilliant
MTHETHWA, Nkululeko
PHILEMON, Esther Lesego
SABANE, Lukholo
SINTO, Aphelele
SITYATA, Simvuyele
SNYMAN, Johandré
SOYEKWA, Sihle
TIKWAYO, Lukhona
TONONO, Masixole Lucas
VAN DEN BERG, Christiaan
WILLEMSE, Janke
ZANYWA, Sivenathi

DIPLOMA IN FORESTRY

BASSON, Julian
BHENGU, Asanda
BIYELA, Sphesihle Nkosikhona
CUTALELE, Ogijonke
DUBE, Bheki Junior
DUMAKUDE, Khayelihle
GAGA, Asanda
GAGIANO, Ian Carlo
GAMA, Thabsile Gladys
GCALEKA, Nosiniko
KHOZA, Mbhekiseni
LANGMAN, Sandisiwe
MAEPA, Tshepho Ernest
MAHLWILI, Bavuyile
MAHUNYE, Cain Norman
MAKATESI, Siphosethu Bianca
MASHISHI, Ofentse Suzen
MAYUZE, Lizile
MAZINGISA, Ndumiso
MBANJWA, Andile
MBULAWA, Lukhona
MEHLOMANE, Zusakhe
MFITHI, Tina
MKHATSHWA, Seluleko Sokalemali
MKHULISE, Mngobeli
MKHWANAZI, Njabulo Africa
MNYEKEMFU, Sinesipho Daphne
MOGOMOTSI, Lerato Dorah

MOTHA, Sabelo Phumlani
MZIMBA, Sanele
NCEDANI, Aphelele
NDOU, Mushaisano Gift
NGCOBO, Blessing Fanelesibonge
NGEMA, Nokwanda Nondumiso Cleopatia
NONGOBI, Minentle
NQAWA, Sinethemba
NTSHANGASE, Sizwesihle Sakhiseni
REDDY, Thaddeus
SHELEMBE, Sboniso
SIBULA, Sivuyile
SOTIYA, Sandiso
TSHIKHUDO, Tsireledzo
TSHOMELA, Sipehelele Marvin
TYWAKADI, Avuyile Aspidistra
ZIKHALI, Siyabonga
ZONDI, Mziwenhlanhla Nhlakanipho
ZONDI, Thokozani Cyprian
ZULU, Khethani Welcome
ZULU, Phelisa

CUM LAUDE

RINGWOOD, Benjamin

DIPLOMA IN GAME RANCH MANAGEMENT

BEJA, Avuya
FISHER, Matthew Arthur
HLEZA, Siyanda
KATE, Yolani
MALAKALAKA, Khomotso
MBANJWA, Sazi Feza Eddy
MOHOTO, Reyaoboka
MPETSHWA, Iviwe Lubabalo
RAMUPFUMEDZI, Mulalo
RAPHIRI, Kamogelo
SIGIDI, Lusakhanya

CUM LAUDE

KRISCH, Eloise Bernadette

DIPLOMA IN NATURE CONSERVATION

APRIL, Zaniel Shantelle
HILL, Jesse Keenan
JAMA, Sinazo
JOKO, Elihle
KOEGELENBERG, Conrad Hermanus
LE FLEUR, Ethan Andrew
MAILE, Thatego Appreciate Boipuso
MAKAPELA, Bulumko
MKULA, Kearabetswe
NGINDANA, Mhlali
NJUMBA, Okuhle
NYUSWA, Noxolo Mbalenhle
PHIRI, Hlengiwe Felicity Meta
RAMARU, Aluwani

RODO, Zoe
SKOSANA, Bulela
THOMAS, Craig Garreth

CUM LAUDE

SALOOJEE, Kamil

DIPLOMA IN WOOD TECHNOLOGY

DANGAZELA, Iviwe
GEBEDA, Liyabona
GROENEWALD, Ludrich
JEMPU, Sisanda Bridgete
MADLALA, Anele Faith
MAKELENI, Sabatha
MASEKO, Zanele
MKHIZE, Thobani
MOOSA, Hassan Siphosihle
MOTHA, Nokwanda Glender
MSANI, Zizipho Surprise
NOCUZE, Busani
PINA, Mponeng
SATHUMA, Ronewa

**ADVANCED DIPLOMA IN AGRICULTURAL
MANAGEMENT**

DU PLESSIS, Luhan
GOOD, Jethro Nicholas
GUMEDE, Thabo Esaia
JHO, Mmiselo
MADALANE, Fezile
MAJWEDE, Ntomboxolo
NGCUNGAMA, Amanda
NGXAZA, Phumeza
ODELL, Stuart Oliver
SIMPSON, Bruce Warren
TSHAKA, Sambeso
TSHISHONGA, Zwivhuya

ADVANCED DIPLOMA IN FORESTRY

BAFO, Thandile
CISHE, Avelile
DLAMINI, Siciniseko Assurance
DU PLESSIS, Pieter
FANI, Nolusindiso Grace
GWILIZA, Alson Abongile
LILA, Ncumisa
LUSHABA, Ndukwenhle Sifisoethu
MDLALOSE, Mbongeni Williem
MDLALOSE, Minenhle Sithokozile
MTSHINTSHI, Mzomhle
MXOTWA, Sibabalwe Sive
NDALENI, Lelonathemba
NDEBELE, Khanyisani Eric
NGUBANE, Nkosinathi White-Boy
NKOSI, Nqoba Israel
NXUMALO, Futhi Welcome
PAILE, Morwaoshele Emmanuel
SEKANWAGI, Namatovu
SIPIKA, Onesimo
TSHONA, Lilitha
ZULU, Thembinkosi Bobokie
ZUMA, Msawakhe Phiwayinkosi

**ADVANCED DIPLOMA IN NATURE
CONSERVATION**

LUNGILE, Sinayo Ayanda
MARAIS, Michelle

CUM LAUDE

DAVIES, Ruby May
MACLEAR, Brittany May
POLISANA, Emihle
RAW, Tessa Sybil

ADVANCED DIPLOMA IN WOOD TECHNOLOGY

MUTENGA, Bernard Munyaradzi
NDEVU, Likho
SELEPE, Sylvester Teboho

BACHELOR OF TECHNOLOGY: FORESTRY

KHUMALO, Sbusiso Bongani



MASTER OF SCIENCE (RESEARCH)

BOSHOFF, Mishak - **Cum Laude**

(Nature Conservation)

Title of dissertation:

EFFECT OF LIVESTOCK MANAGEMENT AND SERVICES TO ECOSYSTEMS ON RANGELAND HEALTH AND RESILIENCE IN THE NAMA-KAROO

Supervisor: Prof H Fritz
Co-Supervisor: Dr C Guerbois

DAVIES, Thomas Patrick

(Nature Conservation)

Title of dissertation:

PONDING SUITABILITY AND REHABILITATION PRIORITIZATION MAPPING IN THE BAVIAANSKLOOF CATCHMENT, SOUTH AFRICA

Supervisor: Dr AG Schmidt

DAYA, Joti

(Nature Conservation)

Title of dissertation:

FEEDING ECOLOGY AND HABITAT PREFERENCE OF THE BLACK RHINO (DICEROS BICORNIS) IN WELGEVONDEN GAME RESERVE. LIMPOPO PROVINCE.

Supervisor: Prof JA Venter
Co-supervisor: Prof H Fritz

ENGELBRECHT, Theunis Jacobus

(Agriculture)

Title of dissertation:

THE POTENTIAL OF MIXED CROPS AS DRYLAND FODDER OR PASTURE

Supervisor: Dr JA Strauss
Co-supervisor: Dr E Dube

HARRIS, Jade Tarryn

(Nature Conservation)

Title of dissertation:

THE EFFECT OF PULSE-DRIVEN RESOURCE AVAILABILITY ON MAMMAL COMMUNITIES IN THE KALAHARI, SOUTH AFRICA

Supervisor: Prof JA Venter
Co-supervisor: Dr JPGM Cromsigt
Co-supervisor: Dr T Hofmeester
Co-supervisor: Prof H Fritz

MALAN, Nicole

(Nature Conservation)

Title of dissertation:

METROSIDEROS EXCELSA: ITS ECOLOGY, DISTRIBUTION AND INVASIVE POTENTIAL IN SOUTH AFRICA

Supervisor: Dr T Kraaij
Co-supervisor: Prof S Geerts

NCONGWANE, Thandekile Hazel - **Cum Laude**

(Forestry)

Title of dissertation:

THE QUANTIFICATION OF PINUS PATULA RECOVERY AND PRODUCTIVITY OF MANUALLY ORIENTATED BIOMASS COLLECTION IN POST MECHANISED FULL TREE AND SEMI MECHANISED TREE LENGTH HARVESTING OPERATIONS

Supervisor: Dr M Ramantswana

Co-supervisor: Dr R Spinelli

Co-supervisor: Dr AM McEwan

OPPERMAN, Ilke - **Cum Laude**

(Forestry)

Title of dissertation:

PESTICIDE-USE WITHIN SOUTH AFRICAN FORESTRY NURSERIES AND THE TESTING OF NON-HAZARDOUS PRODUCTS FOR PEST AND DISEASE CONTROL

Supervisor: Prof KM Little

Co-supervisor: Prof J Roux

Co-supervisor: Ms J Meyer

SIGCAU, Chulumanco

(Forestry)

Title of dissertation:

THE INFLUENCE OF SITE CHARACTERISTICS ON GROWTH AND WOOD PROPERTIES OF PINUS RADIATA AND PINUS ELLIOTTII IN THE SOUTHERN AND EASTERN CAPE FORESTRY REGIONS OF SOUTH AFRICA

Supervisor: Prof JH Louw

Co-supervisor: Mr BG Muller

VAN STRATEN, Oswald Maurice

(Nature Conservation)

Title of dissertation:

IMPACTS OF VEGETATION REHABILITATION METHODS ON SOIL HYDROLOGY AND AUTOGENIC VEGETATION RECOVERY IN ARID KAROO RANGELAND NEAR PRINCE ALBERT, SOUTH AFRICA.

Supervisor: Mr W Matthee

DOCTOR OF PHILOSOPHY

MASHELE, N'Wa-Jama

(Agriculture)

Title of thesis:

AN EXPLORATION OF THE PARTICIPATORY GUARANTEE SYSTEM (PGS). ASSESSING THE ROLE IT PLAYS IN FACILITATING THE GROWTH AND CERTIFICATION OF SMALL-SCALE ORGANIC FARMERS: GIYANI, GARDEN ROUTE AND OVERBERG CASE STUDIES

Supervisor: Prof RMB Auerbach

Co-supervisor: Prof RJ Fincham

THE DEGREE OF DOCTOR OF PHILOSOPHY (AGRICULTURE)

N'WA-JAMA MASHELE

Previous qualifications:

2009	BSc	University of Limpopo
2010	BSc (Hons) (Botany)	Rhodes University
2016	MSc Agricultural Management	Nelson Mandela Metropolitan University



Thesis:

AN EXPLORATION OF THE PARTICIPATORY GUARANTEE SYSTEM (PGS). ASSESSING THE ROLE IT PLAYS IN FACILITATING THE GROWTH AND CERTIFICATION OF SMALL-SCALE ORGANIC FARMERS: GIYANI, GARDEN ROUTE AND OVERBERG CASE STUDIES

The study evaluated whether the Participatory Guarantee System (PGS) is an appropriate framework to facilitate the growth and certification of small-scale organic farmers in South Africa. Key results were grouped into four themes: capacity; market and logistics; learning process; and disturbance and stress. The study shows that PGS is appropriate. However, group composition and education are vital for efficiency. PGS requires context-specific support and collaboration to function optimally and capacitate members. The study recommends collaborative action between industrial and organic agriculture, using the strengths of both systems to foster resilient ways to drive the sustainable transformation of the food system.

Supervisor: Prof RMB Auerbach

Co-supervisor: Prof RJ Fincham



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 alumna/us.

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

Once you have obtained your Nelson Mandela University certificate, diploma or degree you become an alumna/ us of the University and a member of the Nelson Mandela University Alumni Association. The Association is approved 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

Primarily, the ARO builds relationships and maintain strong links with graduates, parents, friends and supporters of the University through events, newsletters, social media, the alumni and friends magazine Thetha and services.

The Role of Nelson Mandela University graduate

We encourage you to attend the alumni engagement events, be an active alumni ambassador, support your alma mater in a variety of ways including sharing news, expertise, skills, and contributions in cash and kind. For more information regarding University projects you can support please visit the University giving page <https://mandela.ac.za/giving-to-mandela-university>

Mandela Alumni Connect – the online alumni networking platform

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

At any given time, when you happen to be on Campus, we welcome your visit to the Alumni Relations Centre on North Campus in Gqeberha (former Port Elizabeth).

More info: T +27 41 504 3935 E alumni@mandela.ac.za

Join us: [Nelson Mandela University Alumni](#) [Nelson Mandela University Alumni](#)

www.alumni.mandela.ac.za [@MandelaUni](#)

University Shop

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

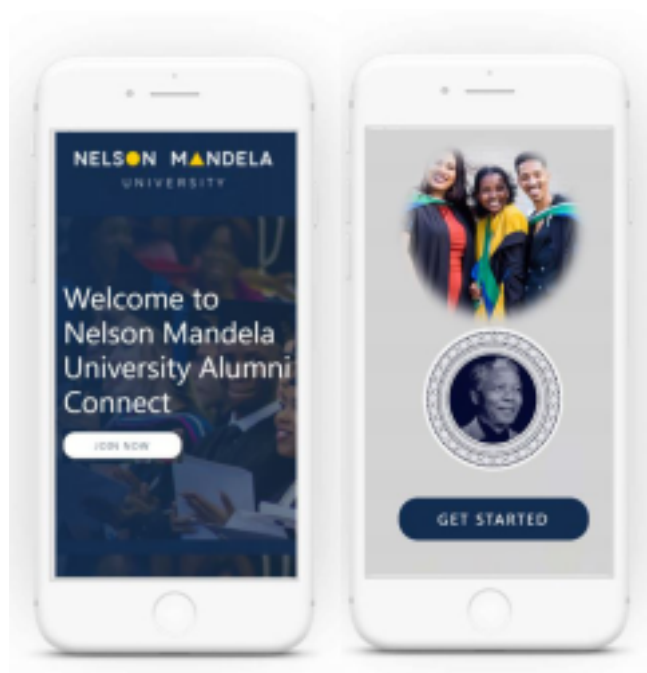
Alternatively, Shop online for all your favourite branded items <https://onlineshop.mandela.ac.za/> Collection and delivery options available online.

More info: T +27 41 504 4371 E shop@mandela.ac.za

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www.shop.mandela.ac.za [@universityshopmandelauni](#) [@ShopMandelauni](#)

Stay connected to your alma mater! #MandelaAlumni4Life



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



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

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

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