

UNIVERSITY



April 2023 Autumn Graduation

Ceremony 17

Faculty of Science

24 APRIL 2023 | 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
Respect for diversity
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 But above going. 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.

Dr Geraldine Fraser-Moleketi Chancellor

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 luthe 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.

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."



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-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

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



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

30 757
ENROLLED STUDENTS

RESEARCH THEMES

2254
PERMANENT EMPLOYEES



STRATEGIC FOCUS AREAS





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 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

BACHELOR OF SCIENCE

ABRAHAMS, Ebrahiem BALLOO, Yuditabye

BALYEJJUSA, Elijah Preston BELWANA, Sokhana Luyolo

BIYANA, Alizwa BONKOLO, Abulele

BOOYSEN, Jemma Abigail BOSHOFF, Done Nicole

BOTHA, Karla

BOTHA, Meaghan Cathrine

BOTMAN, Yamkela BRECHT, Tyler

BRINK, Tamryne Nerine BUDUL, Bushra Ahmed BUKULA, Mihlali Unathi

CELE, Nonelela

CHINOGUREI, Tadiwanashe Arthur

CIMELA, Kholisile Gene
COLLIER, Byron Kenworthy
CONWAY, Emma-Jade
DAVIDS, Shabeer
DE CONING Lyle

DE CONING, Lyle DLAMINI, Asanda

DLAMINI, Bangizwe Owen

DLAMINI, Lwethu DLAVU, Momelezi DLEKEDLA, Hlomla EGLING, Joshua ELEMBI, Mampho

ELS, Liesl

ELS, Lize-Marie FATAAR, Qaanita FERRARIS, Natalie FERREIRA, Bridget GERBER, Zene GROBBELAAR, Mari HARRIS, Finn Mae

HAYWARD, William Charles HERTEL, Jason Michael

HLAZO, Zikho

HLOBONI, Sinovuyo

HLUNGWANI, Mikhenso Karen

JEMSANA, Siphosethu

JENNIKER, Cayrian Jade Shanika

JEZI, Aphelele

JOHNSON, Lerise Marion JOSEPHS, Shane Charles KACHINGWE, Adam KALAZANA, Abenathi Joy KALIMASHE, Qhama KHOZA, Njabulo Elson KILIAN, Luke Dane KOHL, Russel KOLWENI, Moyisi

KOTA, Siphosethu KULATI, Hlumelo LAKEY, Nathan Roy LAMANI, Buhle

LEKHULENI. Xolisile

LIBERTY, Margeaux Elizabeth

LUKIE, Aamina LUKIE, Zeenat

MABALE, Tshireletso Precious

MACHITE, Lysa Bonezi MADZIVA, Tatenda

MAGIBISELA, Phindile Xola MAGUIRE, Shane Brendon MAHLAKA, Ndiphiwe

MALGAS, Thandolwethu Benjamin

MANGENA, Amkele

MANYERE, Bianca Munashe

MAQIZA, Siphosethu

MAQOGA, Milisutando Kulungile

MASHABA, Silingene

MASWANGANYI, Ongolani Vennie

MATOMELA, Mandisi MATUMBA, Mikovhe MAZEKA, Sophumelela MBEWANA, Simamnkele MBHIZA, Shitlhangu.Gershom

MBOKOTO, Asivile MBOMBO, Zandile MDA, Sikho Bulela MLANJENI, Avela MNQUMENI, Asive MOOSA, Muhammed MORAKE, Boichoko Faith

MPAKO, Masivuye MPOTULO, Noxolo

MSELENI, Lesedi Thando

MTHETHO, Maria MUDZINGWA, Trish

MULAUDZI, Tsumbedzo Primerose

MUNYAI, Tshilidzi

MUSEMESI, Tadiwanashe Gilton MZANA, Lelethu Thandokuhle NENZHELELE, Ndugelo Benjamini NGCOBO, Thembinkosi Phillip

NJOKU, Calista Ogechi

NKONDE, Thandolwethu Lerato Palesa

NKUNA, Hatlani

NOWERS, Michelle

NYERE, Nicole Tadiwanashe

O'REILLY, Jarod

OWNHOUSE, Cassidi

PIKE, Daniel Clifton

RAMAKATSA, Lerato Patience

RUBUSHE, Bathandwa

SCHOLTZ, Dale Karl

SCHULTZ, Heinrich Kleyn

SEIF, Laylat Abdallah

SHAW, Shanaaz

SIBANDA, Thembi

SICWETSHA, Zola Wona Luphumlo

SIWAHLA, Onke

SMITH, Ayden Glen

SMITH, Nathan Daniel

SONKOSI, Abenathi

SOYA, Sinoxolo

TANTSI, Onesimo

TARBUCK, Geoffrey David

THOMPSON, Kristen Tacara

TOFO, Kuhle

TSHELOANE, Aobakwe Abigail

UNGERER, Jonathan Luke

UZODIMMA, Ada Rita

VAN DER LINDE, Sonia Emma

VAN OUDTSHOORN, Reece Cameron

VAN WYNGAARDT, Bronwyn

VILJOEN, Marie Louisa

VOKWANA, Luthando

WANYONYI, Isabella Wanjiru

WEDDELL, Kate Mari

ZHOU, Tadiwanashe

ZINI, Phetho

ZWENI, Musa

CUM LAUDE

BADENHORST, Madeleine Monique

BOOYSEN, Lauren Allison

FOSTER, Kelly Megan

GHERBAVAZ, Gemma Leigh

HILL, Derick Gerald

PERRY, Keegan Kyle

ROGERS, Benjamin Dogherty

TEIFEL, Jennifer

TUCK, Reece Leighton

VERSTER, Minyonne

VOCKERODT, Timothy John

BACHELOR OF SCIENCE (INFORMATION SYSTEMS)

THOMAS, Brad

BACHELOR OF COMMERCE HONOURS (COMPUTER SCIENCE AND INFORMATION SYSTEMS)

MATCHABA, Rumbidzai Gamuchirai Ruvarashe

MNGADI, Siyabonga Arnold

TROSKIE, Christiaan Truschky

CUM LAUDE

BEKKER, Carmen

PENRITH, Taylor Jasmine

BACHELOR OF COMMERCE HONOURS (INFORMATION SYSTEMS AND BUSINESS MANAGEMENT)

COKOTO, Noxolo

DU PLESSIS, Bradley

FANI, Lumka

MAMUTHUPI, Rotshidzwa Happy

MATANDA, Vimbai Chido Ruvimbo

SIBANDA, Phillip Simbarashe

SINAMANE, Blessings Prince

BACHELOR OF SCIENCE HONOURS IN APPLIED MATHEMATICS

CUM LAUDE

DU PLESSIS, Erich

BACHELOR OF SCIENCE HONOURS IN COMPUTER SCIENCE AND INFORMATION SYSTEMS

ARMSTRONG, Kieran Joseph

BASSON, Alia Nasreen

DARVEL, Jarod Anthony

NHLANGWINI, Libo Andrew Azeasakhe

SNYMAN, Andre Heinrich

TAPANES GONZALEZ, Felipe

CUM LAUDE

BHAGWANDIN, Adhika

CHEN, Yu-Ju

HOLMES, Daniel

TAIT, Roslyn

BACHELOR OF SCIENCE HONOURS IN MATHEMATICAL STATISTICS

GWILIZA, Sihle

KAFILE, Skhunjulwe Derrick

MILNE, Justin Dylan

NGANIBANI, Athule

THOMAS, Masilakhe XINGWANE, Nasiphi

CUM LAUDE

GWIMO, Phoebe Ndimurwimo Alex

MASTER OF SCIENCE (RESEARCH)

PHELPS, Dylan John (Mathematics)
Title of dissertation:

NONCOMMUTATIVE BANACH-STONE THEOREMS

MUDAU, Phathutshedzo Tiny (Applied Mathematics) Title of dissertation: MODELLING DENGUE FEVER DYNAMICS WITH AVOIDANCE, VACCINATION AND TREATMENT Supervisor: Dr W Mbava Co-supervisor: Ms M Makhuvha MUSHARU, Timothy Nyasha (Computer Science and Information Systems) Title of dissertation: A HYBRID MODEL FOR HUMAN ACTIVITY RECOGNITION TO SUPPORT TRACKING OF INHABITANTS AND ACTIVITIES IN A SIMULATED MULTI-INHABITANT SMART ENVIRONMENT Supervisor: Dr D Vogts NGALO, Akhona Sunshine (Applied Mathematics) Title of dissertation: MODELLING THE DYNAMICS OF BREAST CANCER DISEASE WITH HORMONE THERAPY AND SURGERY CONTROLS Supervisor: Dr W Mbava Co-supervisor: Mr PV Zembe NGWENYA, Moreblessing Tafadzwa (Computer Science and Information Systems) Title of dissertation: INTERACTIVE VISUALISATION OF ENERGY USAGE IN SMART ENVIRONMENTS Supervisor: Prof JL Wesson

Supervisor: Dr M Weigt

DOCTOR OF PHILOSOPHY

ADEWOYIN, Oluwande Olubusola (Computer Science)
Title of thesis:
A MODEL TO SUPPORT POSITIVE BEHAVIOURS IN PERSONAL SMART OFFICES

Supervisor: Prof JL Wesson Co-supervisor: Dr D Vogts

NYEMBE, Hlanganani Siphelele

(Physics)

Title of thesis:

MICROSTRUCTURAL BASED CREEP LIFE ASSESSMENT OF 1CrMoV TURBINE ROTOR STEELS AFTER LONG-TERM SERVICE

Supervisor: Dr JE Westraadt Co-supervisor: Prof JH Neethling

PAZI, Sisa

(Mathematical Statistics)

Title of thesis:

VALIDATION AND ADAPTATION OF STATISTICAL MODELS BASED ON THE SAPS III SCORE TO PREDICT IN-HOSPITAL MORTALITY IN A SOUTH AFRICAN ICU

> Supervisor: Prof GD Sharp Co-Supervisor: Dr E van der Merwe

THE DEGREE OF DOCTOR OF PHILOSOPHY (COMPUTER SCIENCE)

OLUWANDE OLUBUSOLA ADEWOYIN

Previous qualifications:

2011 BTech (Computer Science) Ladoke Akintola University of Technology, Nigeria
 2015 MSc (Advanced Computer Science) University of Birmingham, UK



Thesis:

A MODEL TO SUPPORT POSITIVE BEHAVIOURS IN PERSONAL SMART OFFICES

Behavioural problems exist in several aspects of human life such as health, resource usage and office work productivity, which can be solved using smart environments. This research presents an overview of how human behaviour can be modelled to identify behavioural problems affecting work productivity, using an IoT-enabled office environment. The research developed and evaluated the Positive Behaviour Change (PBC) model, to extract user models, extract behavioural patterns, classify behavioural patterns, identify and classify the changes in behaviour, and identify appropriate interventions based on the changes. The evaluation results showed the model's effectiveness in identifying behaviour change and suitable interventions to promote positive behaviours.

Supervisor: Prof JL Wesson Co-supervisor(s): Dr D Vogts

THE DEGREE OF DOCTOR OF PHILOSOPHY (PHYSICS)

HLANGANANI SIPHELELE NYEMBE

Previous qualifications:

2013 BSc (Physics and Electronics)

2015 BSc (Hons) Physics2018 MSc (Nanoscience)

University of Zululand University of Zululand Nelson Mandela University



Thesis:

MICROSTRUCTURAL BASED CREEP LIFE ASSESSMENT OF 1CrMoV TURBINE ROTOR STEELS AFTER LONG-TERM SERVICE

Creep-resistant 1CrMoV steel has been extensively used for high-pressure turbine rotors in fossil fuel power stations operated at 538°C. Long exposure to this temperature degrades the microstructure and creep properties of the 1CrMoV rotor due to creep deformation. This study used electron microscopy to find the quantitative relationship between the microstructure and creep life. The microstructure of service-exposed 1CrMoV rotors was characterised by electron microscopy techniques. The study found a good correlation between the rotors' microstructure and creep life. The correlation between the microstructure and creep life indicates that electron microscopy has the potential to be used for post-service microstructural evaluations and remnant life assessment.

Supervisor: Dr JE Westraadt Co-supervisor: Prof JH Neethling

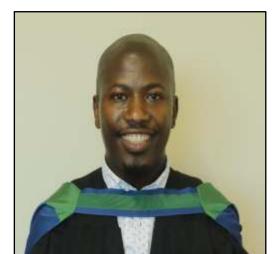
THE DEGREE OF DOCTOR OF PHILOSOPHY (MATHEMATICAL STATISTICS)

SISA PAZI

Previous qualifications:

2014 BSc (*Cum Laude*)
2015 BSc (Hons) (Mathematical Statistics)
2017 MSc (Mathematical Statistics)

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



Thesis:

VALIDATION AND ADAPTATION OF STATISTICAL MODELS BASED ON THE SAPS III SCORE TO PREDICT IN-HOSPITAL MORTALITY IN A SOUTH AFRICAN ICU

This study scrutinised the Simplified Acute Physiology Score (SAPS III), which was developed using an international database. Notably, the database did not include patients from any African based hospitals. To address this shortcoming, in collaboration with medical practitioners at Livingstone Hospital in Gqeberha, patient data was collected and used to develop a modified SAPS III model. A comparative analysis indicated that the modified model was superior to the original SAPS III. In addition, the modified model was compared to current machine learning models and found to be superior. This study resulted in several national and international research outputs.

Supervisor: Prof GD Sharp Co-supervisor: Dr E van der Merwe

Congratulatory Message from the Alumni Association

Congratulations on your academic achievement!

Welcome to the Nelson Mandela Universityfamily. 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

The Alumni Relations Office (ARO) is responsible for alumni engagement and the day-to-day management and running of the Alumni Association, the University Shop and all matters related to alumni as a stakeholder group. 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 Ggeberha (former Port Elizabeth).



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.



Stay connected to your alma mater! #MandelaAlumni4Life









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

mandela.ac.za

PO Box 77000, Nelson Mandela University, Gqeberha, 6031. **T** 041 504 1111 (Gqeberha) **T** 044 801 5111 (George) **E** info@mandelauniversity.ac.za