

NELSON MANDELA

UNIVERSITY



December 2022

Summer Graduation

Faculty of Business and Economic Sciences

Faculty of Engineering, the Built Environment and Technology

Faculty of Education | Faculty of Health Sciences | Faculty of Humanities

Faculty of Law | Faculty of Science

12 DECEMBER 2022 | 09:30





VISION

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

MISSION

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

VALUES

Excellence

Diversity

Ubuntu

Social justice and equality

Integrity

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 hard work. We know that this journey is often not yours alone, as many have travelled with your friends, your lecturers, your supervisors, your mentors and your family. They have invested in you financially, encouraged you to persevere, guided your studies and above all, believed in your ability to succeed and achieve this graduation dream.

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

It offers great hope for the future – “Today, we are filled with joy and gratitude that we are celebrating your graduation together in person.”

We are also extremely pleased that many more are able to join us virtually via livestreaming.

As a student who had to

navigate your studies in unprecedented circumstances, we especially salute and applaud your achievement as you pioneered this path. It could not have been easy. We wish you all the very best for your future endeavours wherever they may take you as a proud alumnus of Nelson Mandela University. Continue learning throughout your life journey. Allow the flame of your curiosity for the new and yet to be discovered to burn brightly. Education is your passport to the future – and also to the future hopes of our country and our continent. It is indeed a foundation for a better world. Or as Nelson Mandela so eloquently put it:

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

Congratulations!

Umyalezo wokuvuyisana

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

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

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



Dr Geraldine Fraser-Moleketi
Chancellor

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.

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

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

Huntshu!

Boodskap van gelukwensing

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

Vandag is jou vreugde ook ons vreugde. So 'n belangrike oomblik – jou gradeplegtigheidsdag – moet gevier word, want dit erken nie net alles wat jy bereik het nie, maar fokus ook op al die potensiaal en moontlikhede wat voorlê. Dit bied groot hoop vir die toekoms – en jy is daardie blink toekoms. Ons is ook baie bly dat baie meer mense virtueel by ons kan aansluit via die regstreekse uitsending. As 'n student wat jou studies in ongekende omstandighede moes navigeer, salueer en loof ons veral jou prestasie as baanbreker op hierdie pad. Dit kon nie maklik gewees het nie.

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

Gaan voort om deur jou lewensreis te leer. Laat die vlam van jou nuuskierigheid helder brand vir dit wat nuut is en nog ontdek moet word.

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

Opvoedkunde is jou paspoort na die toekoms – en ook na die toekomshoop van ons land en ons vasteland. Dit is inderdaad 'n grondslag vir 'n beter wêreld. Of soos Nelson Mandela dit so welsprekend gestel het:

Veels geluk!



Professor Sibongile Muthwa
Vice-Chancellor

About Nelson Mandela University



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

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

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

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

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

Fast Facts and V2030 Strategic Focus Areas



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

31 860

ENROLLED STUDENTS

6 INSTITUTIONAL
RESEARCH
THEMES

2 230

PERMANENT EMPLOYEES



867
INTERNATIONAL
STUDENTS

258
PROGRAMMES

(FROM CERTIFICATE THROUGH TO
DOCTORAL QUALIFICATIONS)

7 FACULTIES

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



**V2030 STRATEGIC
FOCUS AREAS**

51 **DIFFERENT
COUNTRIES**



Office-Bearers of the University

CHANCELLOR

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

CHAIRPERSON OF COUNCIL

Ambassador NP January-Bardill: BA, Cert in Ed(UBL), MA(Essex University, UK), Dip HR Management (Damelin) , Doctor of Laws (hc) (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 Mang, Law and Policy) (UP)

DEPUTY VICE-CHANCELLOR: LEARNING AND TEACHING

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

DEPUTY VICE-CHANCELLOR: PEOPLE AND OPERATIONS

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

DEPUTY VICE-CHANCELLOR: RESEARCH, INNOVATION AND INTERNATIONALISATION

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

DEAN OF LEARNING AND TEACHING

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

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

ENGINEERING, THE BUILT ENVIRONMENT AND TECHNOLOGY

Prof M Sheldon: BTech BA, Doctor of Engineering (Chemical Engineering) (CPUT), PrTech Eng

HEALTH SCIENCES

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

HUMANITIES

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

LAW

Dr L Biggs (Acting): BCom (Law), LLB(UPE), LLM (Labour Law) (cum laude), LLD(NMMU)

SCIENCE

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



Order of Proceedings

Entrance of Academic Procession

Moment of silence

Constitution of Congregation and Welcome

Dr G Fraser-Moleketi (Chancellor)

Cultural performance

Nelson Mandela University Choir

Awarding of qualifications

Dr G Fraser-Moleketi (Chancellor)

Conferring of Doctoral Degrees

Dr G Fraser-Moleketi (Chancellor)

Message of Congratulations and Dissolution of Congregation

Dr G Fraser-Moleketi (Chancellor)

National Anthem

Ms Linathi Nkonyeni (Alumnus)

Departure of Academic Procession

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

FACULTY OF BUSINESS AND ECONOMIC SCIENCES

MASTER OF PHILOSOPHY IN MARITIME STUDIES (COURSEWORK)

MTHEMBU, Sandile

Title of treatise:

THE IMPACT OF COVID-19 ON MARITIME OPERATIONS AT THE PORT OF MOSSEL BAY

Supervisor: Dr DA Els

MASTER OF BUSINESS ADMINISTRATION (COURSEWORK)

BUNGANE, Ntsikelelo

Title of treatise:

THE SOCIO-ECONOMIC IMPACT OF POOR GOVERNANCE ON SOUTH AFRICAN STATE-OWNED ENTITIES SINCE THE DEMOCRATIC DISPENSATION: A CASE OF ESKOM, TRANSNET AND SOUTH AFRICAN AIRWAYS

Supervisor: Prof MS Bayat

DHLAMINI, Sphiwe Simon

Title of treatise:

THE INFLUENCE OF FORENSIC SCIENCE LABORATORY BIOLOGY PERFORMANCE ON THE EFFECTIVENESS OF SOUTH AFRICAN POLICE SERVICE

Supervisor: Dr S Simayi

DICKS, Christie Henderson

Title of treatise:

FACTORS AFFECTING THE BEHAVIOURAL INTENTION OF FOREX TRADERS

Supervisor: Dr H Janse van Rensburg

GALLANT, Ryan Matthew - **Cum Laude**

Title of treatise:

THE INFLUENCE OF AUTHENTIC LEADERSHIP ON THE WORKPLACE SAFETY CULTURE IN THE TYRE INDUSTRY OF SOUTH AFRICA

Supervisor: Dr AG Weimann

GIYOSE, Bongo Thobelani Simthembele

Title of treatise:

AN EXPLORATIVE STUDY INTO THE EFFECT OF INFORMATION TECHNOLOGY IN STREAMLINING THE ACCESS TO DEVELOPMENT FINANCE, FOR SMALL MEDIUM AND MICRO ENTERPRISES (SMMes) IN SOUTH AFRICA

Supervisor: Dr SAF February

KLASSIE, Unathi

Title of treatise:

AN EXPLORATION OF THE BENEFITS OF INFORMATION AND COMMUNICATIONS TECHNOLOGY FOR SMMEs IN THE CONSTRUCTION INDUSTRY IN GAUTENG PROVINCE, SOUTH AFRICA

Supervisor: Prof E Ruhode

NCUTHUSHE, Mboneleli Sinclair

Title of treatise:

UNDERSTANDING OF BUSINESS STRATEGY AT DIFFERENT LEVELS OF THE ORGANISATION

Supervisor: Dr VM Msuthwana



NTETE, Patrick

Title of treatise:

COST CONTROL CHALLENGES IN EASTERN CAPE DEPARTMENT OF HEALTH

Supervisor: Dr H Janse van Rensburg

O'REILLY, Clynn Rick

Title of treatise:

LEADER PREPAREDNESS TO MANAGE EMPLOYEE WELLNESS AT CONTINENTAL TYRES

Supervisor: Prof P Poisat

SAYSTER, Gary Enslin

Title of treatise:

THE FACTORS INFLUENCING PROFESSIONAL COMMITMENT AND JOB PERFORMANCE OF PHARMACISTS IN THE NELSON MANDELA BAY WITHIN THE COVID-19 ENVIRONMENT

Supervisor: Prof CA Arnolds

MASTER OF COMMERCE (RESEARCH)

BACA, Zolile - **Cum Laude**

(Accounting)

Title of dissertation:

RECIPROCAL PEER REVIEWS: EVALUATING POTENTIAL BIAS AND CONFLICT OF INTEREST

Supervisor: Mr M Labuschagne

DELPORT, Jason Ashley - **Cum Laude**

(Business Management)

Title of dissertation:

INVENTORY MANAGEMENT DECISIONS FOR EFFECTIVE INVENTORY MANAGEMENT IN THE SOUTH AFRICAN AUTOMOTIVE COMPONENT MANUFACTURING INDUSTRY: PRE-AND SINCE COVID-19

Supervisor: Prof S Perks

Co-supervisor: Prof J Krüger

KHOZA, Sithobile Xoliswa

(Economics)

Title of dissertation:

BUSINESS CYCLE SYNCHRONIZATIONS IN SACU COUNTRIES: A WAVELET COHERENCE ANALYSIS

Supervisor: Prof A Phiri

KUTAMA, Zwannda Norman

(Business Management)

Title of dissertation:

THE INFLUENCE OF SOCIETAL MARKETING ON GREEN PRODUCTS CONSUMER AWARENESS IN POLOKWANE CITY, SOUTH AFRICA

Supervisor: Dr AP Deliwe

MALUNGANE, Neo
(Economics)

Title of dissertation:

THE DETERMINANTS OF ENTREPRENEURSHIP IN AFRICAN COUNTRIES

Supervisor: Dr CZ Moyo
Co-supervisor: Prof S Mishi

MGIJIMA, Siphosethu - **Cum Laude**
(Business Management)

Title of dissertation:

FACEBOOK AND INSTAGRAM USER EXPERIENCE OF SOCIAL MEDIA MARKETING

Supervisor: Dr AP Deliwe
Co-supervisor: Mr AC Peters

OLISA, Onyiyechukwu Rebecca
(Economics)

Title of dissertation:

THE EFFECT OF FACTOR ENDOWMENT ON BRICS COUNTRIES EXPORT DIVERSIFICATION

Supervisor: Prof A Phiri

SHUMBA, Tariro Fadzai - **Cum Laude**
(Marketing)

Title of dissertation:

ONLINE PURCHASING INTENTION FACTORS INFLUENCING E-CUSTOMER SATISFACTION IN SOUTH AFRICA

Supervisor: Prof S Perks
Co-supervisor: Dr DP Ferreira

ZANDILE, Zezethu
(Economics)

Title of dissertation:

THE IMPACT OF OFFICIAL DEVELOPMENT ASSISTANCE, CORRUPTION AND CAPITAL FLIGHT ON ECONOMIC GROWTH IN SUB-SAHARAN AFRICAN COUNTRIES

Supervisor: Prof A Phiri

MASTER OF COMMERCE IN ECONOMICS (RESEARCH)

RABINDA, Aluwani Malvin

Title of dissertation:

THE IMPACT OF TAXATION AND CORRUPTION ON ECONOMIC GROWTH IN SOUTH AFRICA

Supervisor: Dr T Qabhobho



FACULTY OF ENGINEERING, THE BUILT ENVIRONMENT AND TECHNOLOGY

MASTER OF ENGINEERING (RESEARCH)

CHEKURE, Enock Tafadzwa

(Electrical)

Title of dissertation:

DISTANT ROBUST REAL-TIME RAILWAY LINE DETECTION, TRACKING AND OBSTACLE DETECTION FOR NOISY SIGNAL ENVIRONMENTS

Supervisor: Prof PA Freere

Co-supervisor: Dr KA Naude

Co-supervisor: Ms S Gaffoor

RIBISI, Edwin Tebogo

(Electrical)

Title of dissertation:

LOW ENERGY STORAGE OFF-GRID PHOTOVOLTAIC SYSTEMS

Supervisor: Prof PA Freere

MASTER OF INFORMATION TECHNOLOGY (RESEARCH)

MTSHABE, Mxolisi

Title of dissertation:

FACTORS THAT IMPACT THE USE OF DIGITAL LEARNING IN HIGHER EDUCATION

Supervisor: Dr A Petratos

Co-supervisor: Prof RA Botha

MASTER OF PHILOSOPHY IN INFORMATION TECHNOLOGY (GOVERNANCE)

Exner, Ulandi

Title of dissertation:

AN IT RISK MANAGEMENT IMPLEMENTATION STRATEGY FOR A NON-PROFIT ORGANISATION IN SOUTH AFRICA

Supervisor: Prof LA Futcher

MASTER OF SCIENCE IN CONSTRUCTION MANAGEMENT (RESEARCH)

ADENDORFF, Ryan Gregg

Title of dissertation:

A BEST PRACTICE MODEL FOR INTERNATIONAL FINANCIAL FEASIBILITY IN PROPERTY DEVELOPMENT

Supervisor: Prof B Botha

Co-supervisor: Prof SL Mbanga

MASTER OF SCIENCE IN THE BUILT ENVIRONMENT (COURSEWORK)

FERREIRA, Ruan Christo

(Project Management)

Title of treatise:

EXPLORING THE METHODOLOGIES USED BY CONSTRUCTION PROJECT MANAGERS IN SOUTH AFRICA

Supervisor: Prof GJ Crafford

KING, Kirsty Marie
(Project Management)

Title of treatise:

POST PANDEMIC PROFESSIONAL PRACTICE: DYNAMICS AND HOW SPATIAL DESIGN, FUNCTIONALITY AND PERCEPTIONS ARE ADAPTING

Supervisor: Prof JHH Cruywagen

MOKONENYANE, Mofumahatsana Dibuseng
(Project Management)

Title of treatise:

STRATEGIC ARCHITECTURE FOR QUANTITY SURVEYING FIRMS IN SOUTH AFRICA

Supervisor: Prof GJ Crafford

QUSHEKA, Siphokazi
(Property Economics and Valuation)

Title of treatise:

RESIDENTIAL PRIVATE PROPERTY VALUATION ACCURACY IN SOUTH AFRICA: A CASE STUDY OF KNYSNA IN THE WESTERN CAPE PROVINCE

Supervisor: Prof JHH Cruywagen

WANA, Sivuyise Viwe
(Property Economics and Valuation)

Title of treatise:

INFRASTRUCTURE DEVELOPMENT: A FRAMEWORK FOR SUCCESSFUL DELIVERY OF TOWER MASTS

Supervisor: Prof B Botha

XULABA, Sibulelokuhle
(Project Management)

Title of treatise:

IMPLEMENTATION FRAMEWORK FOR MICROGRIDS AS AN ENERGY SOLUTION TO UPLIFT RURAL COMMUNITIES IN THE EASTERN CAPE

Supervisor: Mr CJ Allen



FACULTY OF EDUCATION

MASTER OF EDUCATION (RESEARCH)

MUSTHAN, Nadeema - **Cum Laude**

Title of dissertation:

EXPLORING PEDAGOGY FROM BELOW: CASE STUDIES OF SOCIOCULTURAL APPROACHES TO LANGUAGE AND LITERACY WITH COMMUNITY LITERACY WORKERS

Supervisor: Prof MS Motala
Co-supervisor: Dr BP Damons

NEWTON, Tracey - **Cum Laude**

Title of dissertation:

A CO-CONSTRUCTED UNDERSTANDING OF TEACHERS' EXPERIENCES IN A COMMUNITY OF PRACTICE WITHIN A COMMUNITY-UNIVERSITY ENGAGEMENT PROJECT

Supervisor: Dr DC Geduld
Co-supervisor: Dr HH Sathorar
Co-supervisor: Dr BP Damons

SONTI, Nobesuthu Rane - **Cum Laude**

Title of dissertation:

EXPLORING THE PERSPECTIVES OF EDUCATION STAKEHOLDERS ON THE CONCEPT OF COMMUNITY-SCHOOLS AS BEACONS OF HOPE IN THE NELSON MANDELA BAY

Supervisor: Dr AM Cherrington
Co-supervisor: Dr TE Mapasa

FACULTY OF HEALTH SCIENCES

MASTER OF ARTS IN COUNSELLING PSYCHOLOGY (COURSEWORK)

HEYNEKE, Wilmie

Title of treatise:

PSYCHOLOGISTS' PERCEPTIONS OF THE GROWTH AND CHANGE PROMOTING FACTORS IN PSYCHOTHERAPY WITHIN A CULTURALLY DIVERSE SOUTH AFRICA

Supervisor: Prof Y Ally

KOTI, Tulisile

Title of treatise:

EXPERIENCES OF FAMILY CAREGIVERS CARING FOR MENTALLY ILL RELATIVES IN THE RURAL EASTERN CAPE

Supervisor: Prof MB Ngcobo-Sithole

MASTER OF ARTS IN PSYCHOLOGY (RESEARCH)

GWARUBANA, Nolufefe

Title of dissertation:

AN EXPLORATION OF TEACHERS' VIEWS AND EXPERIENCES ON THE EFFECTS OF COMMUNITY VIOLENCE ON LEARNERS AT LUSIKISIKI

Supervisor: Prof MB Ngcobo-Sithole

NKASA, Nonjabulo Fortunate

Title of dissertation:

AN INVESTIGATION INTO THE PSYCHOLOGICAL IMPACT OF UNEMPLOYMENT AND COPING MECHANISMS AMONGST GRADUATES IN PIETERMARITZBURG

Supervisor: Prof MB Ngcobo-Sithole

MASTER OF HUMAN MOVEMENT SCIENCE (RESEARCH)

POTGIETER, Quinten Christiaan (**Posthumous**)

Title of dissertation:

KNEE JOINT COMPETENCE POST ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION IN AMATEUR SOUTH WESTERN DISTRICT RUGBY PLAYERS

Supervisor: Dr A Kholvadia

Co-supervisor: Dr L Pote

MASTER OF NURSING (COURSEWORK)

MOSS, Caryn Ruth

(Advanced Primary Health Care)

Title of treatise:

INFANT FEEDING PRACTICES OF MOTHERS WITH INFANTS UNDER SIX MONTHS OF AGE IN THE NELSON MANDELA BAY COMMUNITY HEALTH CENTRES WITHIN SUB-DISTRICT C

Supervisor: Ms K Gerber

Co-supervisor: Dr L Smith



MASTER OF NURSING (RESEARCH)

NOTSHE, Tembisa

Title of dissertation:

EFFECT OF AN EDUCATIONAL INTERVENTION ON PROFESSIONAL NURSES' KNOWLEDGE OF THE MANAGEMENT OF CENTRAL VENOUS CATHETERS IN PUBLIC CRITICAL CARE UNITS IN THE EASTERN CAPE

Supervisor: Dr WH Ten Ham-Baloyi

Co-supervisor: Prof S James

SUSANI, Nangamso Ayanda

Title of dissertation:

EXPERIENCES OF PRIMARY CAREGIVERS OF CHILDREN WITH TUBERCULOSIS MENINGITIS

Supervisor: Dr N Rall

Co-supervisor: Dr L Smith

MASTER OF PHARMACY (RESEARCH)

SWANEPOEL, Caro Mae - **Cum Laude**

Title of dissertation:

DEVELOPMENT OF A THERAPEUTIC DRUG MONITORING MODEL FOR AMINOGLYCOSIDES AT A PRIVATE HOSPITAL IN THE EASTERN CAPE

Supervisor: Dr LC Kritiotis-Germanis

Co-supervisor: Ms C Naested

MASTER OF SOCIAL WORK (RESEARCH)

TSHEFU-MAVIMBELA, Siphokazi

Title of dissertation:

OLDER PERSONS' PERCEPTIONS OF SERVICES THAT SUPPORT POSITIVE AGEING IN THE KHAYELITSHA AND GUGULETHU DISTRICTS OF THE WESTERN CAPE

Supervisor: Prof ACS Keet

MASTER OF TECHNOLOGY: RADIOGRAPHY (RESEARCH)

ZULU, Anelisa

Title of dissertation:

PERCEPTIONS OF KWAZULU-NATAL RADIOGRAPHERS REGARDING THE ROLE OF PROFESSIONAL DEVELOPMENT IN CLINICAL PRACTICE

Supervisor: Dr DG Morton

Co-supervisor: Mr SS Campbell

FACULTY OF HUMANITIES

MASTER OF ARTS (RESEARCH)

HELA-GXANYANA, Honjiswa Erica
(Xhosa)

Title of dissertation:

UNCWADI LWEMVELI NJENGOVIMBA WOKUKHULISA ULWIMI LWESIXHOSA

Supervisor: Dr A Mvanyashe

HLONYANA, Dimakatso Kolobe
(Anthropology)

Title of dissertation:

ANTHROPOLOGICAL INQUIRY INTO THE CAUSES OF MEASLES WITHIN THE COMMUNITY OF MOLETJI-
RAMAKGAPHOLA, LIMPOPO PROVINCE, SOUTH AFRICA

Supervisor: Prof DL Bogopa

MANWADU, Lufuno Charity
(Media Studies)

Title of dissertation:

AN ANALYSIS OF FACTORS AFFECTING MEDIA FREEDOM AT THE SOUTH AFRICAN BROADCASTING
CORPORATION

Supervisor: Prof G Mutinta

MNGADI, Anele
(Political Studies)

Title of dissertation:

A COMPARATIVE STUDY OF MULTICULTURALISM IN SOUTH AFRICA AND CANADA: EVALUATING SUCCESS AND
FAILURES

Supervisor: Mr GC Poggi

MUTSAMBI, Tinotenda Blessing - **Cum Laude**
(English)

Title of dissertation:

REPRESENTATION OF HISTORY IN TSITSI DANGAREMBGA'S TRILOGY – NERVOUS CONDITIONS, THE BOOK OF
NOT AND THIS MOURNABLE BODY

Supervisor: Dr PJ Coetzee

MVENENE, Mbasu
(Political Studies)

Title of dissertation:

AN ANALYSIS OF CORPORATE POWER IN SOUTH AFRICA'S PUBLIC POLICY, 1996–2014

Supervisor: Ms DA Mokoena

NKGOTHOE, Batlhalifi Julius - **Cum Laude**
(Sociology)

Title of dissertation:

TOWARDS A SUSTAINABLE FOOD MANAGEMENT SYSTEM: EXPLORING INDIGENOUS FOOD PRACTICES OF
SORGHUM GRAIN IN THE MOSHANA VILLAGE, NORTH WEST, SOUTH AFRICA

Supervisor: Dr BM Magoqwana



NTSUNDWANA, Kanyisa Zime Dadewabobonke
(Public Administration)

Title of dissertation:

*IMPROVING GOVERNANCE AND SERVICE DELIVERY IN NELSON MANDELA METROPOLITAN MUNICIPALITY:
A QUEST FOR A CLEAN AUDIT OPINION*

Supervisor: Prof RS Masango

PILLAY, Ryan Mark
(Sociology)

Title of dissertation:

*THE GENDER RUBIK'S CUBE: ETHNOGRAPHIC CONVERSATIONS WITH GAY MEN IN GQEBERHA WITHIN THE
NELSON MANDELA MUNICIPALITY*

Supervisor: Prof L Ntombana
Co-supervisor: Prof L-A Stroud

MASTER OF ARTS IN CONFLICT TRANSFORMATION AND MANAGEMENT (RESEARCH)

RAKOLOTE, Sediko Daniel

Title of dissertation:

*CONFLICTS BETWEEN HOST COMMUNITIES AND MINING HOUSES IN BOJANALA PLATINUM DISTRICT
MUNICIPALITY SOUTH AFRICA, 1994-2020*

Supervisor: Dr NB Breakfast

MASTER OF MUSIC (RESEARCH)

KATUSHABE, Ngasiirwe Mathias Batandwa

Title of dissertation:

*HOOKED ON GQOM: AN ETHNOGRAPHIC STUDY OF CONTEMPORARY URBAN YOUTH MUSICAL IDENTITY IN
SOUTH AFRICA*

Supervisor: Dr GG Holtzman

FACULTY OF LAW

MASTER OF LAWS (COURSEWORK)

LUPONDWANA, Masiza Howard

(Labour Law)

Title of treatise:

THE EXTENSION OF COLLECTIVE AGREEMENTS TO NON-PARTIES FOR DISMISSAL FOR OPERATIONAL REQUIREMENTS

Supervisor: Mr T Qotoyi

MAFA, Bonolo Kathleen Lerato

(Labour Law)

Title of treatise:

AMENDMENTS TO THE LABOUR RELATIONS ACT TO CURB VIOLENT AND INTRACTABLE STRIKES

Supervisor: Adv RE Keith-Bandath

MBEWANA, Inga

Title of treatise:

TERMINATION OF EMPLOYMENT IN THE PUBLIC SERVICE SECTOR: THE CONSTITUTIONALITY OF THE DEEMING PROVISIONS

Supervisor: Mr T Qotoyi

NDUDE, Tembinkosi

(Criminal Justice)

Title of treatise:

THE PRINCIPLE OF FAIRNESS IN SOUTH AFRICAN CRIMINAL TRIALS

Supervisor: Prof D Erasmus

SOMANDI, Siphuxolo

(Criminal Justice)

Title of treatise:

SELECTED ASPECTS OF THE CRIME OF NECROPHILIA

Supervisor: Ms DL David

WITI, Bulelani Evliveta

Title of treatise:

THE PREPARATION OF EXPERT WITNESSES TO TESTIFY IN MEDICAL NEGLIGENCE CASES

Supervisor: Ms DL David

MASTER OF LAWS (RESEARCH)

KUTURE, Dudzai Chandisaita

(Public Law)

Title of dissertation:

PROTECTION OF THE ENVIRONMENT FROM POLLUTION EMANATING FROM OFFSHORE OIL INSTALLATIONS

Supervisor: Prof PHG Vrancken

NNKO, Ruth Anaeli

(Public Law)

Title of dissertation:

THE PROTECTION AND PROMOTION OF THE RIGHTS OF JOURNALISTS IN TANZANIA

Supervisor: Dr LA Ndimurwimo



FACULTY OF SCIENCE

MASTER OF SCIENCE (RESEARCH)

BETTINGS, Isabella Aletta
(*Nature Conservation*)

Title of dissertation:

USING SPATIAL EXPLICIT CAPTURE-RECAPTURE MODEL TO INVESTIGATE THE DEMOGRAPHY AND SPATIAL DYNAMICS OF LION PRIDES IN PILANESBERG NATIONAL PARK

Supervisor: Prof A Venter
Co-supervisor: Dr H Fritz
Co-supervisor: Dr DG Marneweck

ENGELBRECHT, Melindi Frances
(*Biological Oceanography*)

Title of dissertation:

MESOZOOPLANKTON AND PARTICLE DYNAMICS IN ALGOA BAY, SOUTH AFRICA

Supervisor: Dr MA Noyon
Co-supervisor: Dr HP Deyzel
Co-supervisor: Prof MJ Roberts

GCINA, Sinenjongo
(*Botany*)

Title of dissertation:

BEAUTY FROM ASHES: SHORT-TERM POSTFIRE REGENERATION OF DUNE FYNBOS-THICKET VEGETATION IN THE SOUTHEASTERN CAPE FLORISTIC REGION

Supervisor: Prof AJ Potts
Co-supervisor: Dr BA Grobler

HLABANA, Relebohile Gladys
(*Chemistry*)

Title of dissertation:

DEVELOPMENT OF A CRUMB RUBBER ADSORBENT FOR THE SORPTION OF LEAD AND COPPER FROM WASTEWATER: OPTIMIZATION OF SORPTION IN A BINARY-COMPONENT SYSTEM

Supervisor: Dr GR Rubidge

MAKHALEMA, Matshidiso Judith
(*Chemistry*)

Title of dissertation:

EFFECT OF LIGNIN ON THE PROPERTIES OF RECLAIMED RUBBER AND RECLAIMED RUBBER/NATURAL RUBBER BLENDS

Supervisor: Prof SP Hlangothi
Co-supervisor: Prof TE Motaung
Co-supervisor: Dr MJ Phiri

MAMBALU, Philasande
(*Geology*)

Title of dissertation:

THE CO-EVOLUTION OF AFRICA'S EASTERN MARGIN AND ITS PRIMATE FAUNA: IMPLICATIONS OF HOMININ EVOLUTION

Supervisor: Prof JC Masters (late)
Co-supervisor: Dr B Linol

MKHIZE, Thembani
(*Biological Oceanography*)

Title of dissertation:

HABITAT USE BY JUVENILE COASTAL FISH IN SUBTIDAL VEGETATED HABITATS OF ALGOA BAY'S SHALLOW-WATER SEASCAPE

Supervisor: Dr NC James
Co-supervisor: Prof JB Adams
Co-supervisor: Dr S Parker-Nance

MNGCELE, Lizalise Sive Nqaba
(*Geology*)

Title of dissertation:

CHARACTERISING TERMITE MOUND SPATIAL PATTERNS IN THE EASTERN CAPE KAROO: APPLYING DRONE REMOTE SENSING, GIS AND SPATIAL STATISTICS

Supervisor: Prof CM Doucouré
Co-supervisor: Prof C Thiar

MONDILE, Landile
(*Botany*)

Title of dissertation:

GROWTH PERFORMANCE OF THREE F1 HYBRID TOMATO (SOLANUM LYCOPERSICUM L.) CULTIVARS GROWN IN PEAT MOSS AND SAWDUST

Supervisor: Dr M Khapayi
Co-supervisor: Mr P Mhlontlo

MPALALA, Anele - **Cum Laude**
(*Chemistry*)

Title of dissertation:

THE DEVELOPMENT OF A FLOW ROUTE TO SYNTHESIZE 3-BENZYL-6-BROMO-2-METHOXYQUINOLINE, AN INTERMEDIATE OF AN ANTI-TB DRUG, BEDAQUILINE

Supervisor: Prof P Watts

NAUDE, Luan
(*Mathematics*)

Title of dissertation:

FIXED POINT THEORY IN METRIC AND NORMED SPACES

Supervisor: Dr M Weigt

NONGOGO, Chumani Robert
(*Agriculture*)

Title of dissertation:

THE EFFECT OF LIMESTONE AMMONIUM NITRATE AND CHICKEN MANURE FERTILISERS ON GROWTH, YIELD AND QUALITY OF TWO CABBAGE CULTIVARS

Supervisor: Mr PR Celliers (late)
Co-supervisor: Dr M Khapayi

RUKUNI, Praxedes Vimbai
(*Zoology*)

Title of dissertation:

EVALUATION OF THE MESOZOOPLANKTON FUNCTIONAL DIVERSITY INDICES IN ALGOA BAY AS PROXIES TO ASSESS THE STABILITY OF THE FOOD CHAIN LEADING TO THE AFRICAN PENGUIN (SPHENISCUS DEMERSUS)

Supervisor: Prof LC Pichegru
Co-supervisor: Dr HP Deyzel

SHUMANE, Vela
(Physics)
Title of dissertation:
CONVERGED DATA AND SENSING OVER OPTICAL FIBER NETWORKS

Supervisor: Prof TB Gibbon
Co-supervisor: Prof AWR Leitch
Co-supervisor: Dr S Wassin

SINGATA, Mzuvukile - **Cum Laude**
(Chemistry)

Title of dissertation:
DEVELOPMENT OF A CONTINUOUS FLOW PROCESS TOWARDS THE SYNTHESIS OF FLUVASTATIN: A LIPID LOWERING DRUG

Supervisor: Prof P Watts

SMITH, Nathan
(Computer Science and Information Systems)

Title of dissertation:
A MODEL TO PREDICT THE DEVELOPMENT OF PREECLAMPSIA IN SOUTH AFRICAN WOMEN

Supervisor: Prof JL Wesson

WHITFIELD, Emily Cailyn - **Cum Laude**
(Botany)

Title of dissertation:
UPTAKE AND STORAGE OF NUTRIENTS BY PRIMARY PRODUCERS IN THE SWARTKOPS ESTUARY

Supervisor: Dr DA Lemley
Co-supervisor: Prof JB Adams

MASTER OF SCIENCE IN NANOSCIENCE (COURSEWORK)

PALI, Zenande - **Cum Laude**

Title of treatise:
AN IN-VITRO EVALUATION OF VERNONIA AMYGDALINA GOLD NANOPARTICLES TO STIMULATE APOPTOSIS IN BREAST CANCER CELL LINES

Supervisor: Prof S Roux

POSWAYO, Olwethu Oscarina

Title of treatise:
DEVELOPMENT OF NEUROTENSIN-CAPPED PALLADIUM NANOPARTICLES FOR TARGETING PANCREATIC CANCER

Supervisor: Prof ZR Tshentu
Co-supervisor: Prof CL Frost

REDDY, Nireshini - **Cum Laude**

Title of treatise:
AN EVALUATION OF HIBISCUS SABDARIFFA GOLD NANOPARTICLES FOR THE TREATMENT OF TRIPLE NEGATIVE BREAST CANCER

Supervisor: Prof S Roux

DOCTOR OF PHILOSOPHY

JIVANJI, Melisha

(Physics)

Title of thesis:

THE EFFECT OF BINDER ADDITIVES ON THE THERMAL STABILITY OF POLYCRYSTALLINE DIAMOND

Supervisor: Dr JE Westraadt

Co-supervisor: Dr RP Forbes

MILLER, Warren David

(Geology)

Title of thesis:

*SPATIAL AND TEMPORAL ANALYSIS OF THE CRITICAL ZONE IN THE WESTERN RIFT VALLEY CORRIDOR:
TOWARDS EARTH STEWARDSHIP SCIENCE IN EAST AFRICA*

Supervisor: Prof CM Doucouré

VUMBUGWA, Monphias

(Physics)

Title of thesis:

*INVESTIGATION OF THERMAL AND ELECTRICAL CHARACTERISTICS OF CRYSTALLINE SILICON PHOTOVOLTAIC
MODULES UNDER VARYING OPERATIONAL CONDITIONS*

Supervisor: Prof EE van Dyk

Co-supervisor: Dr FJ Vorster

Co-supervisor: Dr JL Crozier McClelland

WEBB, Stacey Leigh

(Zoology)

Title of thesis:

*MOULT AND ENERGETICS IN THREE SPECIES FROM THE EUPLECTES GENUS REPRESENTING A GRADIENT OF
ELABORATE PLUMAGE ORNAMENTATION*

Supervisor: Dr N Mzilikazi

Co-supervisor: Prof GIH Kerley

Co-supervisor: Prof A McKechnie

YAKOBI, Khulekani

(Information Systems)

Title of thesis:

*A SOCIAL MEDIA ANALYTICS FRAMEWORK FOR DECISION-MAKING IN THE CONTEXT OF CITIZEN RELATIONSHIP
MANAGEMENT*

Supervisor: Prof BM Scholtz

Co-supervisor: Prof Dr Ing B Wagner vom Berg



FACULTY OF BUSINESS AND ECONOMIC SCIENCES

DOCTOR OF BUSINESS ADMINISTRATION

ADAM, Yusuf

Title of thesis:

INVESTIGATING VARIOUS PRODUCT DERIVATIVES FOR A SUSTAINABLE AQUACULTURE FEED SUPPLY CHAIN IN SOUTH AFRICA

Supervisor: Dr JFE Fraser

DOCTOR OF PHILOSOPHY

BECK, Tracy Geraldine

(Accounting)

Title of thesis:

AN INTEGRATED TRAINING AND CLIENT SERVICE GUIDANCE FRAMEWORK FOR PROFESSIONAL ACCOUNTANTS OF SMEs

Supervisor: Prof H Fourie

BOTES, Vikki

(Industrial Psychology)

Title of thesis:

LAWRENCE KOHLBERG: A PSYCHOBIOGRAPHY

Supervisor: Prof R van Niekerk

FOTOYI, Asanda

(Economics)

Title of thesis:

ECONOMIC IMPACT ASSESSMENT OF THE NATIONAL YOUTH DEVELOPMENT AGENCY (NYDA) GRANT FUNDING IN THE EASTERN CAPE

Supervisor: Prof MR Ncwadi

HAMMAN, Nicolene Melany Desire

(Economics)

Title of thesis:

USING NIGHT TIME LIGHTS DATA AS A MEASURE OF GROSS DOMESTIC PRODUCT IN SUB-SAHARAN AFRICA

Supervisor: Prof A Phiri

MATEKENYA, Weliswa

(Economics)

Title of thesis:

MACRO-ECONOMIC IMPACT OF OCEAN ECONOMY FINANCING IN SOUTH AFRICA

Supervisor: Prof MR Ncwadi

MUGODA, Salmon

(Economics)

Title of thesis:

THE CONTRIBUTION OF SMALL, MICRO AND MEDIUM ENTERPRISES (SMMES) TO LOCAL ECONOMIC DEVELOPMENT OF BUKEDI SUB- REGION, UGANDA

Supervisor: Dr NS Dyubhele

MUNUHLWA, Shakerod

(Logistics)

Title of thesis:

A STAKEHOLDER FRAMEWORK FOR SUSTAINABLE SUPPLY CHAIN MANAGEMENT IN THE ZIMBABWEAN FOOD INDUSTRY

Supervisor: Prof P Hove-Sibanda

RAIMI, Rasaq

(Economics)

Title of thesis:

DIFFERENT DIMENSIONS OF INEQUALITY AND SUSTAINABLE ECONOMIC GROWTH IN AFRICA

Supervisor: Prof A Phiri

VAN ROOYEN, Rize Dorothea

(Development Studies)

Title of thesis:

EXPLORING AND CONTEXTUALIZING THE PREDOMINANT COASTAL AND MARINE ENVIRONMENTAL WORLDVIEWS OF MILLENNIAL SOUTH AFRICANS

Supervisor: Prof B Snow

Co-supervisor: Dr AE van den Berg



FACULTY OF ENGINEERING, THE BUILT ENVIRONMENT AND TECHNOLOGY

DOCTOR OF PHILOSOPHY IN CONSTRUCTION MANAGEMENT

NTAKANA, Khululekani

Title of thesis:

URBAN SPACE PRODUCTION AND SUSTAINABLE DEVELOPMENT: A CASE OF WATERFALL CITY IN GAUTENG, SOUTH AFRICA

Supervisor: Prof SL Mbanga

Co-supervisor: Prof B Botha

Co-supervisor: Prof L Ariyan

DOCTOR OF PHILOSOPHY IN ENGINEERING

MACFARLANE, Alexander Blair Stuart

(Mechatronics)

Title of thesis:

MODULAR OMNI-DIRECTIONAL AGV DEVELOPMENTAL PLATFORM WITH INTEGRATED SUSPENSION, POWER-PLANT AND CONTROL SYSTEMS

Supervisor: Prof TI van Niekerk

Co-supervisor: Prof U Becker

FACULTY OF EDUCATION

DOCTOR OF PHILOSOPHY

TSAMAGO, Hodi Ellias

(Education)

Title of thesis:

DEVELOPING METACOGNITION THROUGH THE USE OF TECHNOLOGY IN SELF-ORGANISED LEARNING ENVIRONMENTS IN GRADE 11 PHYSICAL SCIENCES

Supervisor: Prof A Bayaga

VIMBELO, Siphokazi Winniefred

(Education)

Title of thesis:

EXPLORING A HUMANISING VOCATIONAL PEDAGOGY IN THE TEACHING OF MATHEMATICS IN ENGINEERING RELATED SUBJECTS AT TVET COLLEGES

Supervisor: Prof A Bayaga



FACULTY OF HEALTH SCIENCES

DOCTOR OF NURSING

CHIKANYA, Violet Kestha

Title of thesis:

EDUCATIONAL INTERVENTIONS FOR PRIMARY CAREGIVERS RELATED TO INFECTION PREVENTION AND CONTROL IN STROKE PATIENTS IN A RURAL SETTING OF MUTASA DISTRICT, ZIMBABWE

Supervisor: Prof S James

Co-supervisor: Prof S Jardien-Baboo

DOCTOR OF PHILOSOPHY IN PSYCHOLOGY

NDUNGU, Jane Wagithi

Title of thesis:

CO-DEVELOPING ONLINE SEXUAL VIOLENCE PREVENTION INTERVENTIONS WITH HIGH SCHOOL LEARNERS

Supervisor: Prof MB Ngcobo-Sithole

Co-supervisor: Dr AR Gibbs

ZINGELA, Zukiswa

Title of thesis:

CATATONIA AS A MANIFESTATION OF SERIOUS MENTAL ILLNESS: PREVALENCE, PRESENTATION, MANAGEMENT, AND OUTCOMES IN A MENTAL HEALTH UNIT

Supervisor: Prof L-A Stroud

Co-supervisor: Dr JH Cronje

Co-supervisor: Prof M Fink

FACULTY OF HUMANITIES

DOCTOR OF PHILOSOPHY

ASUMAN, Manfred Antwi Kofi

(Media Studies)

Title of thesis:

PARTICIPATORY COMMUNICATIONS AS A TOOL FOR WOMEN'S EMPOWERMENT: A CASE STUDY OF FIVE COMMUNITY RADIO STATIONS IN NORTHERN GHANA

Supervisor: Prof S Moodley

MTIMKA, Ongama

(Political Studies)

Title of thesis:

A POLITICAL ECONOMY OF TRANSFORMATION IN NELSON MANDELA BAY: A CRITICAL ANALYSIS OF THE CONSTRUCTION SECTOR SINCE 2005

Supervisor: Prof GJ Bradshaw

YEKANI, Babalo

(Public Administration)

Title of thesis:

THE EFFECTIVENESS OF THE MONITORING AND EVALUATION STRATEGIES IN RESPONSE TO THE COVID-19 PANDEMIC: A CASE OF NELSON MANDELA BAY MUNICIPALITY AND BUFFALO CITY METROPOLITAN MUNICIPALITY IN THE EASTERN CAPE

Supervisor: Prof BS Ngcamu

Co-supervisor: Dr S Pillay

FACULTY OF LAW

DOCTOR OF LAWS

DARE, Foluke Mary
(Public Law)

Title of thesis:

THE LEGALITY OF ANTICIPATORY SELF-DEFENCE AGAINST A MARITIME CYBER-ATTACK

Supervisor: Prof PHG Vrancken

Co-supervisor: Prof FE Marx

DOCTORAL CITATIONS



FACULTY OF SCIENCE

THE DEGREE OF DOCTOR OF PHILOSOPHY (PHYSICS)

MELISHA JIVANJI

Previous qualifications:

2005 BSc (Biochemistry and Physiology)
2009 BSc (Hons) Materials Science
2012 MSc (Eng)

University of Cape Town
University of Cape Town
University of Witwatersrand



Thesis:

THE EFFECT OF BINDER ADDITIVES ON THE THERMAL STABILITY OF POLYCRYSTALLINE DIAMOND

Polycrystalline diamond composites find extensive use as an abrasive material, however, it rapidly degrades after exposure to temperatures above 800°C. This study focused on developing a better understanding of the high-temperature degradation mechanisms present in polycrystalline diamond materials. Advanced analytical techniques were used to assess the effectiveness of selected binder additions on the high-temperature behaviour of polycrystalline diamond. The study found that the primary mechanism of thermal instability in polycrystalline diamond is caused by chemically induced graphitisation and is influenced strongly by the chemistry of the binder phase. These learnings could allow for the design of novel polycrystalline diamond materials, with improved performances.

Supervisor: Dr JE Westraadt
Co-supervisor: Dr RP Forbes

THE DEGREE OF DOCTOR OF PHILOSOPHY (GEOLOGY)

WARREN DAVID MILLER

Previous qualifications:

2011 Bachelor of Science
2012 Bachelor of Science (Hons)
2015 Master of Science

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



Thesis:

SPATIAL AND TEMPORAL ANALYSIS OF THE CRITICAL ZONE IN THE WESTERN RIFT VALLEY CORRIDOR: TOWARDS EARTH STEWARDSHIP SCIENCE IN EAST AFRICA

In the submitted doctoral thesis, entitled “Spatial and temporal analysis of the Critical Zone in the Western Rift Valley Corridor: towards Earth Stewardship Science in East Africa”, Warren Miller has made an essential contribution that highlights the need for transdisciplinary work in which earth and human sciences are interweaved to both broaden and deepen the understanding of the East African Rift Valley region, ultimately promoting sustainable strategies through Earth Stewardship Science. This thesis constructs a methodology that assesses the regional health of a sub-continental heritage entity of the Africa Alive Corridors, using forward modelling of land cover change across ten of Africa’s Great Lake basins. To this end, Warren has used innovative mapping that brings out the relevant aspects of the Corridors.

Supervisor: Prof CM Doucouré

THE DEGREE OF DOCTOR OF PHILOSOPHY (PHYSICS)

MONPHIAS VUMBUGWA

Previous qualifications:

2004 Bachelor of Science Physics (Hons)
2014 Instrument Artisan
2019 Master of Science (Physics)

Midlands State University, Zimbabwe
Industrial and Manpower Training, Zimbabwe
Nelson Mandela University



Thesis:

INVESTIGATION OF THERMAL AND ELECTRICAL CHARACTERISTICS OF CRYSTALLINE SILICON PHOTOVOLTAIC MODULES UNDER VARYING OPERATIONAL CONDITIONS

Large utility-scale photovoltaic (PV) plants have become commonplace globally and in South Africa. Thermal Infrared (TIR) imaging is used to locate defective PV cells and modules to ensure optimum performance. This study focused on TIR imaging of crystalline silicon PV cells, modules and arrays used in conjunction with associated characterization tools to analyse the defects and power loss in PV systems. The work showed the dynamic nature of thermal anomalies observed when using TIR imaging. Detailed analysis showed how different defects behave under differing environmental and operational conditions. The work has been published and presented at several conferences, nationally and internationally.

Supervisor: Prof EE van Dyk
Co-supervisor(s): Dr FJ Vorster
Dr JL Crozier McClelland

THE DEGREE OF DOCTOR OF PHILOSOPHY (ZOOLOGY)

STACEY LEIGH WEBB

Previous qualifications:

2007 Bachelor of Science
2008 Bachelor of Science (Hons)
2011 Master of Science

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



Thesis:

*MOULT AND ENERGETICS IN THREE SPECIES FROM THE EUPLECTES GENUS
REPRESENTING A GRADIENT OF ELABORATE PLUMAGE ORNAMENTATION*

Elaborate plumage ornamentation and its role in sexual selection in birds has fascinated scientists since the 1800's. In this study a variety of methods ranging from ptilochronology and reflectance spectrometry to the analysis of large long-term data sets, were used to investigate the physiological costs associated with breeding, production (moult), and maintenance of elaborate and costly ornamentation in three naturally acclimatised, closely related species with different degrees and types of ornamental plumage. It is a novel study of the ecophysiology of ornamental plumage in birds and contributes to our understanding of the complexity of costs and potential trade-offs resulting from ornamental plumage and sexual selection.

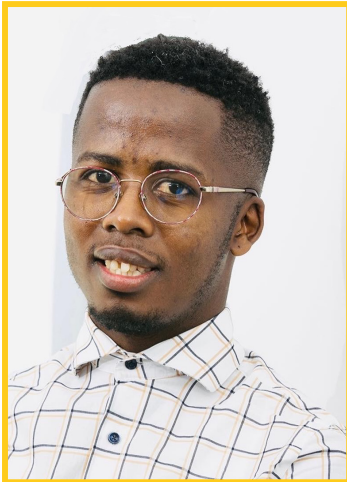
Supervisor: Dr N Mzilikazi
Co-supervisor: Prof GIH Kerley
Prof A McKechnie

THE DEGREE OF DOCTOR OF PHILOSOPHY (COMPUTER SCIENCE AND INFORMATION SYSTEMS)

KHULEKANI YAKOBI

Previous qualifications:

2012	National Diploma in Office Management and Technology	CPUT
2013	Bachelor of Technology in Office Management and Technology	CPUT
2016	Master of Technology in Business Administration	CPUT



Thesis:

*A SOCIAL MEDIA ANALYTICS FRAMEWORK FOR DECISION-MAKING IN THE
CONTEXT OF CITIZEN RELATIONSHIP MANAGEMENT*

This study developed a framework that provides guidelines, methods and tools for incorporating Social Media Analytics (SMA) into decision-making for Citizen Relationship Management. The pragmatic philosophy was used to generate an in-depth, multi-faceted understanding of the status of SMA in three cases: Focus Group Discussions with government decision makers and an analysis of Twitter data in the three cases were conducted. The Tweets analysed related to Covid-19 and vaccination perceptions of citizens. The findings revealed that the strategies for SMA in all the cases were comprehensive. Two of their implementations were still in their early stages, whilst one department successfully used SMA to identify trends in Covid-19 and to respond and adjust service delivery accordingly. Common challenges to SMA were data trust and accessibility issues, lack of skills, tools and budget. The framework provides a novel contribution that can provide governments with guidance for SMA adoption to facilitate decision-making, transparency and accountability of service delivery.

Supervisor: Prof BM Scholtz

Co-supervisor: Prof Dr Ing B Wagner vom Berg

FACULTY OF BUSINESS AND ECONOMIC SCIENCES

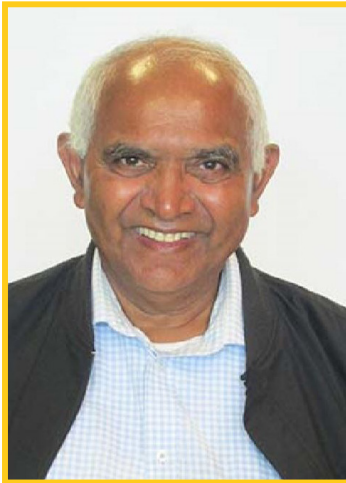


THE DEGREE OF DOCTOR OF BUSINESS ADMINISTRATION

YUSUF ADAM

Previous qualifications:

1993	Bachelor of Commerce	University of South Africa
1993	Higher Diploma in Education	University of the Western Cape
1995	Diploma in Advanced Banking	Rand Afrikaans University
2013	Postgraduate Diploma in Maritime Studies	Nelson Mandela Metropolitan University
2015	Magister in Public Administration	University of the Free State
2016	Bachelor of Commerce (Hons)	University of South Africa



Thesis:

INVESTIGATING VARIOUS PRODUCT DERIVATIVES FOR A SUSTAINABLE AQUACULTURE FEED SUPPLY CHAIN IN SOUTH AFRICA

Contemporary aquaculture practices adversely impact the environment, economy and society due to unsustainable fish farming and applied feed systems. This study investigated alternative production systems and aquaculture feed ingredients which mimic natural marine ecosystem food supply chains. Integrated Multitrophic Aquaculture was found to result in more sustainable ecosystem management practices. The study also identified future alternative aquaculture feed ingredients to substitute the unsustainable application of fish meal and fish oil as key ingredients. By surveying industry stakeholders' perceptions on alternative product derivatives, the call for sustainably produced aquaculture feed can now inform sustainable supply chain management and marine ecosystem stewardship.

Supervisor: Dr JFE Fraser

THE DEGREE OF DOCTOR OF PHILOSOPHY (ACCOUNTING)

TRACY GERALDINE BECK

Previous qualifications:

2003	National Diploma: Cost and Management Accounting	PE Technikon
2006	Bachelor of Technology: Cost and Management Accounting	Nelson Mandela Metropolitan University
2008	Master of Technology: Cost and Management Accounting	Nelson Mandela Metropolitan University



Thesis:

AN INTEGRATED TRAINING AND CLIENT SERVICE GUIDANCE FRAMEWORK FOR PROFESSIONAL ACCOUNTANTS OF SMEs

The study commenced with an extensive literature review after which it was identified that a need exists to determine whether SME clients of professional accountant's desire more from their accountants than the professional accountants are educated and trained to offer; whether professional accountants provide the services that their SME clients desire; and whether SMEs are aware of these services. Emanating from the extensive literature review, the primary objective of this study was to propose an integrated training and client service guidance framework for professional accountants of SMEs. An interpretivist research paradigm and a qualitative methodological approach were used to conduct the research. Data were collected through interviews with participants from two participant groups (Professional Accountants and SME clients). Based on key findings, a framework addressing the primary research objective, was developed. The framework provides guidance in respect of the knowledge, skills, competencies, and practical experience that a professional accountant should obtain during the various phases of education and training. The study concluded that professional accountants must effectively communicate and market their services to current as well as prospective SME clients to ensure that clients are aware of the potential services which can be provided or obtained from a trusted expert.

Supervisor: Prof H Fourie

THE DEGREE OF DOCTOR OF PHILOSOPHY (INDUSTRIAL PSYCHOLOGY)

VIKKI BOTES

Previous qualifications:

2010	Bachelor of Arts (Health Sciences and Social Services) (<i>Cum Laude</i>)	University of South Africa
2012	Bachelor of Arts Hons (Psychology)	University of South Africa
2014	Master of Arts (Clinical Psychology) (<i>Cum Laude</i>)	Nelson Mandela Metropolitan University



Thesis:

LAWRENCE KOHLBERG: A PSYCHOBIOGRAPHY

Lawrence Kohlberg (1927-1987) is known for his ground-breaking research on moral development. The study formulated an intriguing psychological biography of this extraordinary individual who committed suicide by walking into the ocean at the age of 59 years. The aims of this study were to illuminate Kohlberg's life story through (a) formulating a contextualised description of Kohlberg's life history, (b) interpreting the life story of Kohlberg according to a comprehensive theory of human development, (c) informally evaluating the appropriateness of this theoretical framework in describing and interpreting Kohlberg's life story, and (d) contributing to the growing field of psychobiographical research in South Africa. This research concluded that Kohlberg was a passionate driven individual who dedicated his life to morality and moral education, sacrificing other areas in his life for this cause. Further, the use of the BTHD Framework was effective in illuminating Kohlberg's life story, illustrating how complex and multifaceted development is. However, recommendations were made for the use of the BTHD Framework in psychobiographical research.

Supervisor: Prof R van Niekerk

THE DEGREE OF DOCTOR OF PHILOSOPHY (ECONOMICS)

ASANDA FOTOYI

Previous qualifications:

2011 BCom (Accounting and Economics)
2012 BCom (Hons) (Economics)
2016 MCom (Economics)

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



Thesis:

ECONOMIC IMPACT ASSESSMENT OF THE NATIONAL YOUTH DEVELOPMENT AGENCY (NYDA) GRANT FUNDING IN THE EASTERN CAPE

The National Youth Development Agency (NYDA) grant funding provides young South African entrepreneurs with an opportunity to access both financial and non-financial business support. This thesis examined the effectiveness of the NYDA grant funding, in the Eastern Cape, using cost benefit analysis (CBA) and least absolute deviation (LAD) regression analysis on a sample size of 253 respondents. The study found that public investment towards youth entrepreneurship through NYDA grant funding was economically viable during the period under review. The study further found that the development of youth entrepreneurship should go beyond just NYDA grant funding to include favourable policies towards closing gender gaps, supportive education systems as well ensuring diverse economic sectors. The findings of the study suggest that the government should continue with its public investment towards youth entrepreneurship under the conditions of a growing and developing economy.

Supervisor: Prof MR Ncwadi

THE DEGREE OF DOCTOR OF PHILOSOPHY (ECONOMICS)

NICOLENE MELANY DESIRE HAMMAN

Previous qualifications:

2015	National Diploma in Economics	Nelson Mandela Metropolitan University
2016	Advanced Diploma in Economics	Nelson Mandela Metropolitan University
2017	Bachelor of Commerce (Hons) (Economics)	Nelson Mandela Metropolitan University
2019	Master of Commerce (Economics)	Nelson Mandela University



Thesis:

*USING NIGHT TIME LIGHTS DATA AS A MEASURE OF GROSS DOMESTIC PRODUCT
IN SUB-SAHARAN AFRICA*

High spatial resolution satellite imagery offers a unique view of the earth's surface from outer-space and can be used in a multidisciplinary way to benefit countries and the global economy for spatial distribution purposes. This study therefore implored the Defense Meteorological Satellite Program -Operational Linescan System (DMSP-OLS) nighttime lights time series in all its facets to detect and establish if night time lights can serve as a useful measurement proxy for economic performance and well-being. Overall findings indicate that light intensity is a poor proxy for economic activity and well-being due to conflicting results derived from the different estimation techniques employed in the study.

Supervisor: Prof A Phiri

THE DEGREE OF DOCTOR OF PHILOSOPHY (ECONOMICS)

WELISWA MATEKENYA

Previous qualifications:

2012 BCom (Economics and Business Management)
2013 BCom (Hons) (Economics)
2014 MCom (Economics)

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



Thesis:

MACRO-ECONOMIC IMPACT OF OCEAN ECONOMY FINANCING IN SOUTH AFRICA

The study examined macroeconomic impact of ocean economy financing in South Africa during the 1994 to 2019 period. The study employed ARDL to test long and short-run relationships. The results show that ocean economy financing in South Africa during the period under review has positive relationship on economic growth, and a negative relationship on unemployment, although the latter is statically insignificant, while ocean economy financing has a negative relationship with entrepreneurship, and have a positive relationship with total trade, and statistically significant. The study recommendations government should continue investing in oceans economy marine infrastructure and to address any constraints that hinder the growth and sustainability of the country's ocean economy. In order to ensure the economic viability of ocean economy financing four areas need attention, namely economic growth, entrepreneurship, job creation, and total trade. This study recommends that in order to grow the South African economy, a comprehensive growth strategy that looks beyond ocean economy should be adopted. Regarding entrepreneurship ease of doing business should be improved and all factors inhibiting entrepreneurship should be addressed. The requisite skills through human capital investment should be harnessed and decent and sustainable jobs in the ocean sector should be created.

Supervisor: Prof MR Ncwadi

THE DEGREE OF DOCTOR OF PHILOSOPHY (ECONOMICS)

SALMON MUGODA

Previous qualifications:

2005 Bachelor of Arts (Social Science) (Economics)
2009 Master of Arts (Economics)

Makerere University
Makerere University



Thesis:

THE CONTRIBUTION OF SMALL, MICRO AND MEDIUM ENTERPRISES (SMMEs) TO LOCAL ECONOMIC DEVELOPMENT OF BUKEDI SUB-REGION, UGANDA

The contribution of SMMEs to Local Economic Development of Bukedi was investigated. The findings indicate that whereas the SMME sector has grown overtime, its contribution is marginal as poverty rates continue to soar. The meagre contribution of SMMEs has been the provision of pseudo employment especially for the uneducated and low skilled workers. To accelerate LED, the clarion call is for government to become solution oriented and mitigate obstacles facing business. Additionally, there is need to pay attention to local economic activities in Bukedi. They have to be holistically and strategically linked with any LED efforts.

Supervisor: Dr NS Dyubhele

THE DEGREE OF DOCTOR OF PHILOSOPHY (LOGISTICS)

SHAKEROD MUNUHWWA

Previous qualifications:

2011 BTech (International Purchasing, Logistics and Transport)
2018 MSc (Supply Chain Management)

Chinhoyi University of Technology
Chinhoyi University of Technology



Thesis:

*A STAKEHOLDER FRAMEWORK FOR SUSTAINABLE SUPPLY CHAIN MANAGEMENT
IN THE ZIMBABWEAN FOOD INDUSTRY*

The study employed a fixed concurrent mixed method approach to explore the influence of sustainable food supply chain management (SFSCM) drivers, SFSCM practices and key stakeholders' dynamic capabilities (SDCs) on SFSCM performance in the Zimbabwean food industry. A thematic analysis was used to analyse qualitative data collected from 22 participants, while descriptive analysis and structural equation modelling techniques were used to analyse the quantitative data collected from 292 respondents. The findings suggest that SFSCM drivers and SDCs should be considered to boost SFSCM performance through SFSCM practices. The significant contribution of the study is the SFSCM stakeholder framework developed to address and redress food insecurity issues through SCM.

Supervisor: Prof P Hove-Sibanda

DOCTOR OF PHILOSOPHY IN ECONOMICS

RAIMI RASAQ

Previous qualifications:

2011 BSc (Economics)
2019 MSc (Economics)

University of Jos, Plateau State, Nigeria
Ekiti State University, Ado-Ekiti, Ekiti State, Nigeria



Thesis:

DIFFERENT DIMENSIONS OF INEQUALITY AND SUSTAINABLE ECONOMIC GROWTH IN AFRICA

The study re-examine the relationship between inequalities and sustainable growth using recent African data between the periods of 1998-2020. Parametric and non-parametric econometric techniques were applied and results from the analysis indicate an inverse relationship between inequalities and sustainable growth. Contrarily, positive result was found for income inequality. The study concludes that economic growth has been helping in bridging inequalities with the exemption of income inequality. Also, it is evident that economic growth alone is not adequate to close inequality gap in Africa. In conclusion, the study recommends intensifies developmental efforts to reach everyone to fight poverty across the continent.

Supervisor: Prof A Phiri

THE DEGREE OF DOCTOR OF PHILOSOPHY (DEVELOPMENT STUDIES)

RIZE DOROTHEA VAN ROOYEN

Previous qualifications:

2015 Bachelor of Social Sciences (Human and Societal Dynamics)
2017 BA (Hons) Psychology
2018 MA Development Studies (Coursework)

University of the Free State
University of South Africa
Nelson Mandela University



Thesis:

EXPLORING AND CONTEXTUALISING THE PREDOMINANT COASTAL AND MARINE ENVIRONMENTAL WORLDVIEWS OF MILLENNIAL SOUTH AFRICANS

Through a four-phase exploratory descriptive design, the study explores the theoretical basis of environmental worldviews within sustainability discourse. Based upon the four-phases, a coastal and marine environmental worldview profile is developed and discussed for a sample of millennial South Africans. It is identified that various contextual factors influence the formation of coastal and marine environmental worldviews and their expression as behaviours. The study provides a theoretical model and contextual framework from which coastal and marine environmental worldviews can be studied in the South African context for inclusion within proactive environmental worldview strategies.

Supervisor: Prof B Snow
Co-supervisor: Dr AE van den Berg

**FACULTY OF ENGINEERING, THE BUILT
ENVIRONMENT AND TECHNOLOGY**



THE DEGREE OF DOCTOR OF PHILOSOPHY IN CONSTRUCTION MANAGEMENT

KHULULEKANI NTAKANA

Previous qualifications:

2008 National Diploma (Building)
2013 Bachelor of Technology (Quantity Surveying)
2017 Master of Science (Built Environment)

Walter Sisulu University
Nelson Mandela Metropolitan University
Nelson Mandela Metropolitan University



Thesis:

*URBAN SPACE PRODUCTION AND SUSTAINABLE DEVELOPMENT: A CASE STUDY
OF WATERFALL CITY IN GAUTENG, SOUTH AFRICA*

This inquiry aimed at examining factors that influence urban space production to generate a responsive model, referred to in this study as the “IUSP model”. It also aimed at examining the role of the state and other stakeholders involved in the production of urban space, including the private sector and the community. The study demonstrated a concurrent mixed method design. Results from the two concurrent approaches were merged to yield the final model. This model aims to assist policymakers, planners, designers, landscapers, and developers as a guideline for facilitating inclusive and sustainable urban development.

Supervisor: Prof SL Mbanga
Co-supervisor(s): Prof B Botha
Prof L Ariyan

THE DEGREE OF DOCTOR OF PHILOSOPHY IN ENGINEERING (MECHATRONICS)

ALEXANDER BLAIR STUART MACFARLANE

Previous qualifications:

2015 Bachelor of Engineering in Mechatronics
2016 Master of Engineering in Mechatronics

Nelson Mandela Metropolitan University
Nelson Mandela Metropolitan University



Thesis:

*MODULAR OMNI-DIRECTIONAL AGV DEVELOPMENTAL PLATFORM WITH
INTEGRATED SUSPENSION, POWER-PLANT AND CONTROL SYSTEMS*

An automated guided vehicle (AGV), is a machine that can self-navigate. The research goal for this thesis was not only to create a self-navigating vehicle but a holonomic, omnidirectional one. This flexibility allows the AGV to operate in a traditional factory, designed around human ergonomics and not machine kinematics. SIL safety compliance ensures the AGV can act as a collaborative robot, working directly with humans rather than locked robot cells separated from people.

An entirely new drive train had to be invented to achieve cost-effective, omnidirectionally. This came in the form of a two-wheeled wheel swerve drive system, with two being unconstrained casters. Four-wheeled swerve drive AGVs, where all four wheels are powered, is common within the academic space but have realized only limited usage in industry. Therefore, through this research project the candidate made it possible to implement the previously cost prohibited system into an industrial acceptable standard and setting for the first time.

Supervisor: Prof TI van Niekerk
Co-supervisor: Prof U Becker

FACULTY OF EDUCATION

THE DEGREE OF DOCTOR PHILOSOPHY (EDUCATION)

HODI ELLIAS TSAMAGO

Previous qualifications:

2001 HEd

2012 BEd (Hons)

2017 MEd

University of Limpopo

University of Limpopo

University of Limpopo



Thesis:

DEVELOPING METACOGNITION THROUGH THE USE OF TECHNOLOGY IN SELF-ORGANISED LEARNING ENVIRONMENTS IN GRADE 11 PHYSICAL SCIENCES

A mixed-methods approach was used in this study to investigate the effect of the self-organised learning environments (SOLEs) pedagogy on learners' metacognitive skills and understanding of Physical Sciences concepts. According to this study, using SOLEs pedagogy significantly enhances learners' metacognitive skills as well as their conceptual understanding. The study makes a substantial contribution in the attempt to find effective pedagogies that integrate the teaching of metacognitive skills and technology to improve learners' conceptual understanding.

Supervisor: Prof A Bayaga

THE DEGREE OF DOCTOR OF PHILOSOPHY (EDUCATION)

SIPHOKAZI WINNIEFRED VIMBELO

Previous qualifications:

2002	ND in Natural Sciences	Peninsula Technikon
2009	ACE in Mathematics	University of Johannesburg
2011	Mechanical Engineering N6	Coastal College
2013	MEd in Mathematics Education	University of Johannesburg
2017	Master's in Mathematics Education	University of Zululand



Thesis:

EXPLORING A HUMANISING VOCATIONAL PEDAGOGY IN THE TEACHING OF MATHEMATICS IN ENGINEERING RELATED SUBJECTS AT TVET COLLEGES

The purpose of the study was to determine whether a humanising pedagogy could transform the teaching of mathematics at a TVET college. The findings indicate that teaching mathematics through a humanising pedagogy could indeed transform the teaching of mathematics as mathematics teaching would incorporate social justice issues helping students to question injustices in the mathematics classroom and use mathematics to address social issues relevant to them. The implication of these findings is that lecturers need to know how to acquire deep understanding of social justice issues, so that their students can use mathematics as an analytical tool to question injustices.

Supervisor: Prof A Bayaga

FACULTY OF HEALTH SCIENCES



THE DEGREE OF DOCTOR OF NURSING

VIOLET KESTHA CHIKANYA

Previous qualifications:

1978	Diploma in General Nursing	Mpilo Central Hospital, Zimbabwe
1982	Diploma in Midwifery	Mpilo Central Hospital, Zimbabwe
1988	Diploma Operating Theatre Nursing	Harare Central Hospital, Zimbabwe
1994	Diploma Nursing Administration	Parirenyatwa Central Hospital, Post Basic School, Zimbabwe
2000	Bachelor of Arts in Nursing Science	University of South Africa
2004	Master of Science in Nursing Science	University of Zimbabwe



Thesis:

EDUCATIONAL INTERVENTIONS FOR PRIMARY CAREGIVERS RELATED TO INFECTION PREVENTION AND CONTROL IN STROKE PATIENTS IN A RURAL SETTING OF MUTASA DISTRICT, ZIMBABWE

After a brief hospital admission, stroke patients are discharged home with many of them under the care of inexperienced primary caregivers thus exposing the patients to the possibility of chest, skin, and urinary tract infections. This study aimed to develop and validate educational interventions for primary caregivers to prevent and control these infections. Results from an exploration of caregiver knowledge and practices of stroke patient care revealed a knowledge gap with caregivers and that the village health workers seldom disseminated stroke patient care information to the caregivers. A review of the developed intervention in the form of a job aid confirmed its effectiveness in improving and standardizing caregiver competence in preventing and controlling infections among home-based stroke patients.

Supervisor: Prof S James

Co-supervisor: Prof S Jardien-Baboo

THE DEGREE OF DOCTOR OF PHILOSOPHY (PSYCHOLOGY)

JANE WAGITHI NDUNGU

Previous qualifications:

2016 Bachelor of Psychology (Counselling)
2018 Master of Arts in Psychology

Nelson Mandela Metropolitan University
Nelson Mandela University



Thesis:

CO-DEVELOPING ONLINE SEXUAL VIOLENCE PREVENTION INTERVENTIONS WITH HIGH SCHOOL LEARNERS

The study explored the feasibility, acceptability and challenges of co-developing an online group based participatory violence against women and girls (VAWG) intervention for adolescents, from the perspectives of experts and adolescents. The co-development process was guided by the 6 Essential Steps for the Quality Intervention Development framework. The findings showed that co-developing, and providing, group-based participatory VAWG prevention interventions online is shaped by a complex set of factors, that impact on the possibilities for transformative communication online. Adolescents will play a pivotal role in the reimagining of participatory interventions online over time. Three international peer reviewed journal articles, and two international conference proceedings have been produced from this work.

Supervisor: Prof MB Ngcobo-Sithole
Co-Supervisor: Dr AR Gibbs

THE DEGREE OF DOCTOR OF PHILOSOPHY (PSYCHOLOGY)

ZUKISWA ZINGELA

Previous qualifications:

1988 MBChB
2002 FCPsych
2003 MMed (Psych)

University of KwaZulu Natal
Colleges of Medicine of South Africa
University of Pretoria



Thesis:

CATATONIA AS A MANIFESTATION OF SERIOUS MENTAL ILLNESS: PREVALENCE, PRESENTATION, MANAGEMENT, AND OUTCOMES IN A MENTAL HEALTH UNIT

This research study applied deductive reasoning and a positivist paradigm approach with a mixed quantitative and qualitative method to investigate catatonia, a potentially fatal psychomotor disorder. The experience of persons with catatonia was explored from the beginning to the end of the catatonic episode and included neglected areas such as patients' psychological experiences. Assessment, prevalence, presentation, management, treatment outcomes and the psychological experience of catatonia were investigated through a prospective descriptive triangulation approach. Data was collected using screening tools for catatonia such as the Bush Francis Catatonia Rating and Screening Scales and the Diagnostic and Statistical Manual–5. Clinical notes and participant reports were also used. This research study highlighted the prevalence of catatonia (11.9% - 18.3%), the importance of effective screening of patients for catatonia across all acute settings, the need for training of both medical and nursing personnel in the assessment of catatonia, and the effective implementation of interventions resulting in significant outcomes. The descriptions of catatonia at an emotional, cognitive, and behavioural level were also highlighted including the need to develop psychological strategies and targeted psychological interventions to complement current management strategies. Five noteworthy publications emanated from this study all yielding new knowledge of catatonia with potential applications at a regional, national, and global level.

Supervisor: Prof L-A Stroud
Co-supervisor(s): Dr JH Cronje
Prof M Fink

FACULTY OF HUMANITIES



THE DEGREE OF DOCTOR OF PHILOSOPHY (MEDIA STUDIES)

MANFRED ANTWI KOFI ASUMAN

Previous qualifications:

2012 Diploma in Communications

Ghana Institute of Journalism, Ghana

2015 BA Communication Studies (Journalism)

Ghana Institute of Journalism, Ghana

2018 MPhil Development Studies

University for Development Studies, Ghana



Thesis:

PARTICIPATORY COMMUNICATIONS AS A TOOL FOR WOMEN'S EMPOWERMENT: A CASE STUDY OF FIVE COMMUNITY RADIO STATIONS IN NORTHERN GHANA

This project studied women's empowerment through community focused mass media systems. The study found that community radio improves the livelihood of women in Northern Ghana significantly by providing them with health-related information and new information on agriculture and food production. The study also found that, through community radio, women's interest in politics is heightened, because they are enabled to stay in touch with their elected leaders and to hold them accountable on budgetary decisions and the spending of tolls and taxes collected. The study proposed a framework to assist in the implementation of Communication for Development projects which aim to empower women in rural areas such as Northern Ghana.

Supervisor: Prof S Moodley

THE DEGREE OF DOCTOR OF PHILOSOPHY (POLITICAL STUDIES)

ONGAMA MTIMKA

Previous qualifications:

2005 Bachelor of Arts
2010 Master of Philosophy

Rhodes University
Nelson Mandela Metropolitan University



Thesis:

A POLITICAL ECONOMY OF TRANSFORMATION IN NELSON MANDELA BAY: A CRITICAL ANALYSIS OF THE CONSTRUCTION SECTOR SINCE 2005

This thesis reviews the political economy of transformation within the construction sector in Nelson Mandela Bay, to contribute to the advancement of knowledge within the field of South African political economy. By focusing on a specific economic sector, the study adds a nuance to the debates about the role of the state in the economy. It details the rise and fall of small business forums using grounded theory research and dissects various elements of the narrative in line with ongoing debates about the nexus between politics and business as well as the role of interest groups in pluralist political systems.

Supervisor: Prof GJ Bradshaw

THE DEGREE OF DOCTOR OF PHILOSOPHY (PUBLIC ADMINISTRATION)

BABALO YEKANI

Previous qualifications:

2009 National Diploma (Public Management)
2010 Baccalaureus Technologiae (Public Management)
2015 Masters of Public Administration

Walter Sisulu University
Walter Sisulu University
Nelson Mandela Metropolitan University



Thesis:

THE EFFECTIVENESS OF THE MONITORING AND EVALUATION STRATEGIES IN RESPONSE TO THE COVID-19 PANDEMIC: A CASE OF NELSON MANDELA BAY MUNICIPALITY AND BUFFALO CITY METROPOLITAN MUNICIPALITY IN THE EASTERN CAPE

The study investigated the effectiveness of monitoring and evaluation (M&E) strategies employed in Nelson Mandela Bay Municipality and Buffalo City Metropolitan Municipality in response to COVID-19 pandemic. The study revealed ineffective M&E strategies and inadequate organisational support to sustain best practices in these two municipalities. The bleak findings depicted a linear relationship between the municipalities' leadership failure to implement the performance management system among its workforce and an exponential increase of COVID-19 cases and fatalities in these municipalities. This study could potentially empower municipal employees with tailored work experience that is relevant for the current and future slow and fast-onset disasters.

Supervisor: Prof BS Ngcamu
Co-supervisor: Dr S Pillay

FACULTY OF LAW



THE DEGREE OF DOCTOR OF LAWS (PUBLIC LAW)

FOLUKE MARY DARE

Previous qualifications:

2009 Bachelor of Laws

2013 Master of Laws

Igbinedion University, Nigeria

University of Sussex, United Kingdom



Thesis:

THE LEGALITY OF ANTICIPATORY SELF-DEFENCE AGAINST A MARITIME CYBER-ATTACK

This study analyses the international law principle of anticipatory self-defence against the emerging threat of maritime cyber-attack with a focus on article 51 of the United Nations Charter and relevant law-of-the-sea instruments in order to identify the challenges associated with applying this principle in the context of maritime cybersecurity. It concludes by stressing that the uniqueness of the emerging threat of cyber-attacks against maritime security needs to be taken into account when assessing the lawfulness of actions taken by States to thwart these attacks.

Supervisor: Prof PHG Vrancken

Co-supervisor: Prof FE Marx

Academic Dress

Special academic attire has been designed for office bearers at Nelson Mandela University to be worn at prestigious academic events like graduation. Each outfit – from that of the Chancellor and Vice-Chancellor to those of the Executive Deans – has been meticulously selected to signify a particular office; this is a tradition that is consistent with leading universities throughout the world. The gowns, caps and hoods of Nelson Mandela University graduates were similarly inspired and are explained in detail below. Academic dress for graduates at Nelson Mandela University is as follows:

Doctoral Degrees

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

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

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

Master's degrees

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

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

Cap: Black mortarboard with blue tassel.

Postgraduate Diplomas

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

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

Cap: Black mortarboard with blue tassel.

Bachelor Honours Degrees

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

Hood: Blue simple shape hood lined silver grey satin with 50mm wide straight neckband in faculty colour. Cowl edged 75mm faculty colour ribbon on the outside. 15mm silver grey ribbon runs along the outer edge

of the cowl, overlaid on faculty ribbon and on top edge of neckband.

Cap: Black mortarboard with blue tassel.

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

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

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

Cap: Black mortarboard with blue tassel.

Three-Year Bachelor's Degrees

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

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

Cap: Black mortarboard with blue tassel.

Advanced Diploma

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

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

Cap: Black mortarboard with blue tassel.

Diploma

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

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

Cap: Black mortarboard with blue tassel.



Faculty Colours

Humanities:

Business & Economic Sciences:

Health Sciences:

Law:

Education:

Science:

Engineering, the Built Environment and Technology:

Business School:

Yellow

Plum

Apple green

Grey blue

Orange

Dark green

Light blue

Black and magenta



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

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

Congratulatory Message from the Alumni Association

Congratulations on your academic achievement!

Welcome to the Nelson Mandela University family. You are now a Nelson Mandela University 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, networks, services, communications and community engagement.

The Role of Nelson Mandela University graduate

We encourage you to attend the alumni engagement events, be an active alumni ambassador, support your alma mater in a variety of ways including sharing news, expertise, skills, and contributions in cash and kind. 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: [Facebook](#) Nelson Mandela University Alumni [Twitter](#) Nelson Mandela University Alumni

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University Shop

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

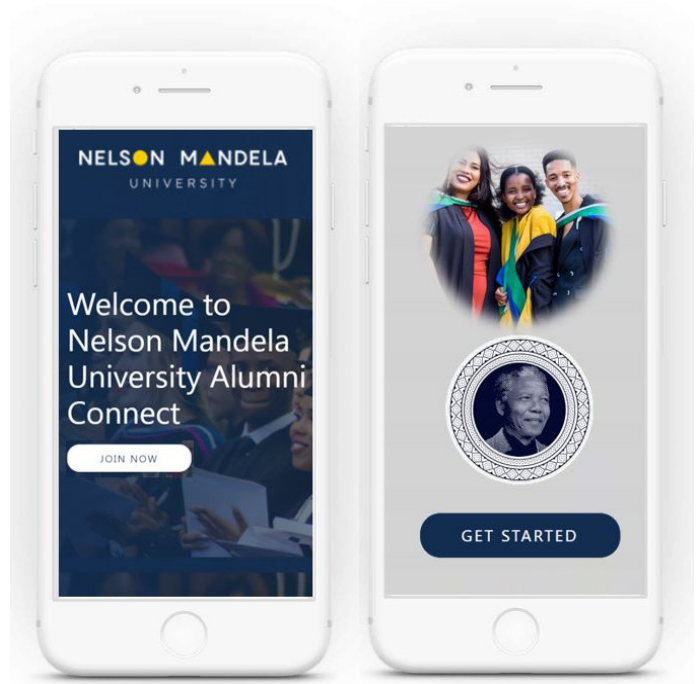
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NATIONAL ANTHEM

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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