

FACULTY OF HEALTH SCIENCES

NATIONAL DIPLOMA: ENVIRONMENTAL HEALTH

HUMANI, Anelisa
KOTSELE, Nombulelo
MATWEBU, Aphiwe Sibongile
MFINI, Alungile

BACHELOR OF RADIOGRAPHY IN DIAGNOSTICS

DAVIDS, Fatima
GEORGE, Cleo Jamie
HENDRICKS, Sihaam
MADIKIZELA, Lubabalo
MAPALALA, Khanyisile
MATANZIMA, Asavela
MBANGENI, Nontanda Junius
MENTOOR, St Luke Damlin Clive
NGXUBE, Olu
WELAPHI, Esethu

CUM LAUDE

CHETTY, Trezell Valentine
GOOLAM-HOOSSEN, Khatija
MGIDLANA, Luyolo
SCHOLTZ, Kelsey Lynn
SMART, Michelle Elaine
THOMPSON, Lee-Ann
VAN WYK, Chemaine

BACHELOR OF TECHNOLOGY: BIOMEDICAL TECHNOLOGY

MANINJWA, Siphokazi Lucille
MDLALO, Nombulelo
MKONTWANA, Busiswa Patience
MOLOTO, Mmaphete Beverley
MPAKATI, Tisunge
SAIDI, Davie Tonnie

CUM LAUDE

KALUA, Vitumbiko
KANYEMBA, Creto
MAKWALO, Whytone
MANJEZI, Nosipho Ncumisa

BACHELOR OF TECHNOLOGY: ENVIRONMENTAL HEALTH

FIBI, Simthandile
GQETYWA, Anele Nolwazi
KAMPAPA, Benson
KHUMALO, Fezeka Portia
MABOZA, Sinawo
MAKASA, Xoliswa Beullah
MALULEKE, Mikateko Molly
MAZINGISA, Akhona Victress
MDZINGWANA, Yolisa
PALISO, Onele
SIDEBA, Nombuyiselo Portia
ZENZILE, Luvuyo

BACHELOR OF TECHNOLOGY: RADIOGRAPHY: DIAGNOSTIC

BLIGNAUT, Leota Raquel

BOOYSEN, Rowen Deswin Aldin
DIKO, Thandiswa
ELLIOT, Liesl Alieda
GARANE, Ntombizamawethu
GROENEWALDT, Monique Melissa
JONES, Daniël Nicola
MANELI, Aviwe
MARAIS, Shamony Esmarelda
MASEBENI, Nomsitho
MAZULA, Xolelwa
MBAMBOSI, Chwayita
MOHUTSIWA, Tshireletso Charmaine
MPOFU, Phelekwa Patricia
NDLELA, Chuma
PANDAY, Ni'Mat
PLAATJIE, Siyabulela
SINEKE, Noluvo
STEINEVELDT, Marcia-Lee
VISENYOUE, Louisa Alecia
WILSON, Logan Britney

CUM LAUDE

BOTHA, Natasja Nicole Krystle
GELDERBLOM, Denielle Raylene

FACULTY OF SCIENCE

BACHELOR OF TECHNOLOGY: AGRICULTURAL MANAGEMENT

CUJANA, Yandisa
DYONGO, Sinokuhle
GAXO, Azile
JEZILE, Chumani
KOLANISI, Noxolo
LEMBEDE, Bongeka Sinamile
MABANDLA, Okuhle
MADIKIZELA, Lelethu
MAHALA, Lungelwa Pakama
MAHLANYANA, Sonwabile
MAJOKWENI, Sandisele
MARARENI, Nomvuzo
MBALEKWA, Noluvuyo
MBUMBULWANA, Sivuyile
MDAKANE, Nonsikelelo Happiness
MPONDZO, Luvokazi
MQINA, Mzolisi
MSITSHANA, Andiswa Pamela
NDLANGISA, Sandisiwe
NDUKU, Bonani Lavela
NGCWEMBE, Zizo
NJILI, Zamazima
NOMLALA, Asiphe
NONGCAWULA, Lizalise
NTLANGA, Phumzile
NTONGANA, Simamkele
NTONTELA, Siphosethu
NTWANAMBI, Lusanda
NYATI, Phumeza
PITA, Nkosinathi
POWELL, Nicholas James
RADALI, Adivhaho Everest
RALA, Andiswa Jeanet
SANGQU, Andisa
SIBALI, Lonwabo
SONTLABA, Zilulutho Noludwe
THEKWANA, Thembelihle
ZINYA, Yolisa

CUM LAUDE

MHATU, Sinovuyo Canida

**BACHELOR OF TECHNOLOGY: GAME RANCH
MANAGEMENT**

BOWLES, Shaun Zane
HOLLOWAY, Michael Andrew
LAHDEAHO, Jean Sebastian
MURRAY, Jason Gareth
RASELABE, Masindi Lawrence

CUM LAUDE

DE ROUBAIX, Lanielle
KOUKAKIS, Learndra

BACHELOR OF COMMERCE HONOURS

DE VILLIERS, John Ethan
(Computer Science and Information Systems)
MADAVO, Tawanda Kuzivashe
(Information Systems and Business Management)
MYAMBO, Howard
(Information Systems and Business Management)
NONYANA, Basia Pascal
(Information Systems and Business Management)

CUM LAUDE

VAN DER MERWE, Marla
(Information Systems and Business Management)

**BACHELOR OF COMMERCE HONOURS IN
MATHEMATICAL STATISTICS**

MATSHAYA, Akhona

BACHELOR OF SCIENCE HONOURS

GOVUZELA, Mnoneleli Meshark *(Physics)*

**BACHELOR OF SCIENCE HONOURS IN APPLIED
MATHEMATICS**

CUM LAUDE

FOURIE, Daniel Liam

BACHELOR OF SCIENCE HONOURS IN BIOCHEMISTRY

NAIDOO, Sharnay
SIWAK, Andrea Martha

BACHELOR OF SCIENCE HONOURS IN BOTANY

BODLEY, Deborah Lynn
GRIEBENOW, Robert Ernest
HLAHLA, Jeremiah
MHLONGO, Lethukuthula Khayelihle
MSONGELWA, Elihle Alizwa
NEL, Marele Annette
NELSON, Ashleigh
WASSERMAN, Johan De Wet
WIENAND, Nicole Nadine

CUM LAUDE

JULIE, Corianna Lauren
LEHMAN, Tevan William Key

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

DIX-PEEK, Tayla Jane
FLEUR, Logan Darren
HIBBERS, Ilze
JIKANI, Sibabalwe Sipamandla
PANTSU, Phumeza Noluthando
ROBERTS, James Dixon
STRYDOM, Dean

CUM LAUDE

KEEN, Charne
PHILLIPS, Antin Paul
WATT, Nathan

**BACHELOR OF SCIENCE HONOURS IN
ENVIRONMENTAL GEOGRAPHY**

BOOI, Hulisani
FORBES, Abigail Lucia
KHOSA, Kevin
MC ARTHUR, Brogan Erin

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

CLOETE, Andre'

**BACHELOR OF SCIENCE HONOURS IN MATHEMATICAL
STATISTICS**

BHOXOZA, Ntando

CUM LAUDE

DJUZA, Petra
GORLACH, Nikita Igorevna
WESTRAADT, Edward James

BACHELOR OF SCIENCE HONOURS IN MATHEMATICS

CUM LAUDE

OLIVIER, Ruan

BACHELOR OF SCIENCE HONOURS IN MICROBIOLOGY

BEAUZEC, Deon
BEAUZEC, Michael
DWYER, Rebecca Ann
HENNING, Nicole Jo-Ann
JANSEN VAN RENSBURG, Zune
JOHNSON, Megan Elizabeth
MYBURG, Kierra Ashleigh
STRYDOM, Louis
VAN DER VEEN, Floor
VAN NIEKERK, Tanna Mae

BACHELOR OF SCIENCE HONOURS IN ZOOLOGY

DE MENEZES, Lyle
DU TOIT, Hendrik Daniel
HARTLEY, Oliver
MZIMANE, Odwa Lona
SHILUBANE, Natasha

CUM LAUDE

LINGENFELDER, Eleesha
PERAL, Christopher Michael

FACULTY OF LAW

POSTGRADUATE DIPLOMA IN LABOUR LAW PRACTICE

BILLETT, Volenté Veronica
CLAASEN, Lisa Elaine
DEYSEL, Petrus Gerhardus
DUMEZWENI, Themba
HEWU, Mayibongwe Mayford
JOHN, Thenjiwe Pinkie
KAYAMA, Ohms Moven
KONA, Thandile Christopher
LEROThOLI, Fezeka
LUWACA, Zidlekhaya
MADYIBI, Zoliswa
MAGELE, Mtutuzeli Viscount
MAHOKOTO, Mangaliso
MAPHOSA, Faith Sikhulile
MBUYISA, Khayelihle Malizo Errel

MCKELVEY, Bianca
MDUDUMA, Nombeko
MDUNYELWA, Ezile Aphelele Jongilizwe
MENE, Bonginkosi Wilton
MFAXA, Mncedisi
MGIDLANA, Ncedisa Alex
MINI, Mandlenkosi Welcome
MINNIE, Wouter Jacobus Theron
MOLOGWENI, Thembaletu Gladen
MOPP, Jermene Rudi
MPAPELA, Bekisisa
MTEYISE, Nomapa Pretty
MUSETEKA, Ben Washington
MZINGELWA, Hombakazi
NABELA, Zolisa
NCOKAZI, Luthando
NGXANGANE, Thandoxolo Humphrey
NKUKWANA, Zingisile Wiseman
NOMVETE, Lindile Freddy
PETERS, Cecil
SIGIDI, Vuyo Elvin
SIMON, Ross Carl
SITOTO, Thabanchu Macglory
TANTSI, Philela
THOMAS, Lara Michelle
VENGE, Babalwa Jacqueline
VON GORDON, Jana

CUM LAUDE

ELS, Brendon Deon
SCHEEPERS, Dylan

FACULTY OF LAW

MASTER OF LAWS (COURSEWORK)

BANDA, Lisa Malopa

(Labour Law)

Title of treatise:

LABOUR DISPUTE RESOLUTION IN SOUTH AFRICA AND MALAWI: A COMPARATIVE STUDY

Supervisor: Mr RE Keith-Bandath

DU TOIT, Michelle Christine

Title of treatise:

THE CRIMINALISATION OF HIV AND THE SIGNIFICANCE OF KNOWLEDGE: A COMPARATIVE STUDY

Supervisor: Ms DL David

KALAWE, Thozama Mavis

(Labour Law)

Title of treatise:

AN OVERVIEW OF ABSENCE WITHOUT LEAVE, SICK ABSENCE AND ABSCONDING IN THE LOCAL GOVERNMENT SECTOR

Supervisor: Mr MJ Boyens

KEMP, Matthew James - **Cum Laude**

(Labour Law)

Title of treatise:

PUBLIC SECTOR EMPLOYEES AND THEIR RIGHT TO JUST ADMINISTRATIVE ACTION

Supervisor: Prof JA Van Der Walt

KETI, Nosicelo

(Labour Law)

Title of treatise:

THE RETURN-TO-WORK POLICY FOR INJURED AND DISEASED WORKERS

Supervisor: Dr L Biggs

XAKAXA, Xoliswa Yolanda Didi

(Labour Law)

Title of treatise:

RATIFYING THE ILO CONVENTION NO. 102 (SOCIAL SECURITY MINIMUM STANDARDS CONVENTION, 1952) BY SOUTH AFRICA

Supervisor: Mr JK Gathongo

MASTER OF LAWS (RESEARCH)

CHRISTOFFELS, Eugene Miles

(Private Law)

Title of dissertation:

THE NON-RESTORATION OF LAND: COPE AND AMBIT OF SECTION 34 OF THE RESTITUTION OF LAND RIGHTS ACT

Supervisor: Prof DW Freedman

Co-supervisor: Prof E Knoetze

FACULTY OF HEALTH SCIENCES

MASTER OF ARTS IN CLINICAL PSYCHOLOGY (COURSEWORK)

HEMMINGS, Tanya Arlene Simone - **Cum Laude**

Title of treatise:

EXPLORING MINDFULNESS AS AN INTERVENTION ON TEACHERS' STRESS, ANXIETY AND DEPRESSION IN THE EASTERN CAPE, SOUTH AFRICA

Supervisor: Prof DS Elkonin

KIBI, Aluta

Title of treatise:

THE EFFECTS OF FATHER ABSENTEEISM ON THE DEVELOPMENT OF A MASCULINE IDENTITY OF YOUNG XHOSA MEN IN AN URBAN TOWNSHIP

Supervisor: Dr Y Ally

O'KEEFFE, Shanna-Lee - **Cum Laude**

Title of treatise:

COUPLE'S PERCEPTIONS OF THE EFFECTIVENESS OF IMAGO ENRICHMENT WORKSHOPS ON RELATIONSHIP SATISFACTION

Supervisor: Prof JG Howcroft
Co-supervisor: Dr T Lambert

SALMANI TORGHI, Parnaz

Title of treatise:

THERAPISTS' PERCEPTION OF THE HEALING VARIABLES OF ANIMAL ASSISTED INTERVENTION

Supervisor: Prof JG Howcroft

MASTER OF ARTS IN COUNSELLING PSYCHOLOGY (COURSEWORK)

DE WET, Elna

Title of treatise:

EFFECT OF FEMININE IDENTITY ON SEXUAL HEALTH DECISION MAKING OF YOUNG FEMALES

Supervisor: Dr Y Ally

MASINYANE, Anita Andrea

Title of treatise:

AN EXPLORATION OF THE ROMANTIC EXPERIENCES OF YOUNG FEMALE ADULTS RAISED BY SINGLE MOTHERS

Supervisor: Dr Y Ally

WEBBER, Lyndsay Lorna

Title of treatise:

PERCEPTIONS OF THE LONG-TERM INFLUENCE OF AN IMAGO GETTING THE LOVE YOU WANT COUPLES WORKSHOP ON RELATIONSHIP SATISFACTION

Supervisor: Prof JG Howcroft
Co-supervisor: Dr T Lambert

ZIETSMAN, Louis Frederick

Title of treatise:

MATURE SOUTH AFRICAN STUDENTS' PERCEPTIONS OF THEIR TRANSITION EXPERIENCES INTO AND FROM UNIVERSITY EDUCATION

Supervisor: Prof MB Watson
Co-supervisor: Dr ML McMahon

MASTER OF ARTS IN HEALTH AND WELFARE MANAGEMENT (COURSEWORK)

HUYSAMEN, Peter Johannes

Title of treatise:

THE PERCEPTIONS OF PROVINCIAL EMS MANAGERS REGARDING THE MANAGEMENT OF THE MILLENNIAL EMPLOYEES IN THE NELSON MANDELA BAY HEALTH DISTRICT

Supervisor: Dr SM Du Rand
Co-supervisor: Mr NE Louw

MASTER OF ARTS IN PSYCHOLOGY (RESEARCH)

EDWARDS, Megan Althea

Title of dissertation:

YOUNG ADULTS' PERCEPTIONS OF THE PSYCHOSOCIAL FACTORS IMPACTING UPON SELF-DISCLOSURE ONLINE

Supervisor: Prof JG Howcroft
Co-supervisor: Dr T Lambert

SCHOLTZ, Wilmie

Title of dissertation:

PERPETRATORS' PERSPECTIVES OF THE PSYCHOLOGICAL FACTORS CONTRIBUTING TO RACIALLY - MOTIVATED HATE CRIMES IN SOUTH AFRICA

Supervisor: Dr Y Ally

VON RUBEN, Adriana

Title of dissertation:

A SYSTEMATIC REVIEW OF INTERVENTION EFFECTIVENESS FOR PROBLEM ANGER IN AN ADULT OUTPATIENT POPULATION

Supervisor: Prof JG Howcroft
Co-supervisor: Dr Y Ally

MASTER OF HUMAN MOVEMENT SCIENCE (RESEARCH)

LISTER, Cassandra Cheryl

Title of dissertation:

EFFECTS OF AN INTEGRATED MOVEMENT PROGRAMME ON MOTOR PROFICIENCY, VISUAL - MOTOR INTEGRATION AND SCHOLASTIC ACHIEVEMENTS IN GRADE ONE LEARNERS OF QUINTILE FIVE PRIMARY SCHOOLS IN PORT ELIZABETH

Supervisor: Dr ML Baard

MASTER OF NURSING (COURSEWORK)

MADLINGOZI, Nompumelelo Sibusisiwe
(Advanced Midwifery and Neonatal Nursing Science)

Title of treatise:

EXPLORATION OF BREASTFEEDING MOTHERS' KNOWLEDGE AND ATTITUDES TOWARD HUMAN MILK DONATION IN NELSON MANDELA BAY

Supervisor: Ms N Rall
Co-supervisor: Mr BSI Sonti

MASTER OF PHARMACY (COURSEWORK)

LOUW, Philippus Du Toit
(Industrial)

Title of treatise:

METHOD VALIDATION FOR THE QUANTIFICATION OF CASTICIN IN VITEX AGNUS CASTUS FRUIT USING A FOURIER TRANSFORM INFRARED MULTIVARIATE CHEMOMETRIC MODEL

Supervisor: Prof G Kilian

SINGH, Sharista
(Industrial)

Title of treatise:

PROPORTIONAL SCALE-UP OF PLASMA-DERIVED FACTOR VIII BY INCREASING THE MASS OF CRYOPRECIPITATE FOR DISSOLUTION

Supervisor: Prof G Kilian
Co-supervisor: Mr S Lakshminarayana

MASTER OF PHARMACY (RESEARCH)

BOBBINS, Amy Claire - **Cum Laude**

Title of dissertation:

DELIVERY OF PHARMACEUTICAL SERVICES AND CARE AT THREE PRIMARY HEALTHCARE CLINICS WITH DIFFERENT DISPENSING MODELS IN THE NELSON MANDELA BAY HEALTH DISTRICT

Supervisor: Prof SF Burton
Co-supervisor: Ms T-L Fogarty

KEMP, Nicholas Mark

Title of dissertation:

BARRIERS TO PICKING AND PACKING IN PHARMACEUTICAL WAREHOUSING AND DISTRIBUTION IN SOUTH AFRICA

Supervisor: Mr YE Kadernani
Co-supervisors: Prof G Kilian and Mr Z Masebe

NDZAMELA, Sisipo Tandeka

Title of dissertation:

PATIENTS AND HEALTHCARE PROFESSIONALS' EXPERIENCES OF MEDICINE UNAVAILABILITY AT A PRIMARY HEALTHCARE CENTRE IN THE NELSON MANDELA BAY METROPOLE

Supervisor: Prof SF Burton

FACULTY OF SCIENCE

MASTER OF SCIENCE (RESEARCH)

DE VOS, Deidre

(Zoology)

Title of dissertation:

THE EFFECT OF CASUARINA TREES ON SEA TURTLE NESTING BEACHES THROUGHOUT THE INDIAN OCEAN AND SOUTH - EAST ASIA REGIONS: A BEACH VULNERABILITY ASSESSMENT

Supervisor: Prof R Nel
Co-supervisor: Dr DR Du Preez

HLATI, Kuhle

(Zoology)

Title of dissertation:

PASSIVE ACOUSTIC MONITORING OF COASTAL DOLPHINS (SOUSA PLUMBEA AND TURSIOPS ADUNCUS) IN PLETTENBERG BAY: TEMPORAL PATTERNS AND GROUP DYNAMICS

Supervisor: Prof PA Pistorius
Co-supervisor: Dr SP Kirkman

JACKSON, Simon

(Biochemistry)

Title of dissertation:

THE EFFECT OF ER STRESS IN INS-1E CELLS USING IL- 1 β UNDER HYPERGLYCAEMIC CONDITIONS

Supervisor: Prof CL Frost
Co-supervisor: Dr N Beukes

KATENDE-LUKYAMUZI, Lucky Fulgentius

(Geography)

Title of dissertation:

ASSESSMENT OF INDIGENOUS FOREST DEGRADATION AND DEFORESTATION ALONG THE WILD COAST, NEAR PORT ST JOHN'S, EASTERN CAPE PROVINCE, SOUTH AFRICA

Supervisor: Prof V Kakembo

KEYS, Danielle Zuanda - **Cum Laude**

(Zoology)

Title of dissertation:

THE FORAGING ECOLOGY OF WEDGE - TAILED SHEARWATERS (ARDENNA PACIFICA) IN THE TROPICAL WESTERN INDIAN OCEAN

Supervisor: Prof PA Pistorius
Co-supervisor: Dr M le Lorré

MATABANE, Rebotile

(Botany)

Title of dissertation:

TOLERANCE OF SALT MARSH ECOTONE SPECIES TO SALINITY AND INUNDATION

Supervisor: Prof JB Adams

MAZWANE, Sixolile Leonora

(Botany)

Title of dissertation:

ASSESSING GROWTH RESPONSE PATTERN OF MICROALGAE TO VARYING ENVIRONMENTAL CONDITIONS USING SEDIMENTS FROM EPHEMERAL WETLANDS

Supervisor: Dr PT Gama
Co-supervisor Dr D Schael

MOORCROFT, David Fenner - **Cum Laude**

(Geology)

Title of dissertation:

A SEISMIC CHARACTERIZATION OF THE CRUSTAL STRUCTURE UNDERLYING THE OFFSHORE NOTHERN NATAL VALLEY WITHIN THE SOUTHWEST INDIAN OCEAN.

Supervisor: Prof CM Doucoure

MUJURU, George Tungamirai

(Computer Science and Information Systems)

Title of dissertation:

HEALTH AND ACTIVITY MONITORING TO SUPPORT THE SELF-MANAGEMENT OF CHRONIC DISEASES OF LIFESTYLE USING SMART DEVICES

Supervisor: Prof JL Wesson

Co-supervisor: Dr NLO Cowley

NENGOVHELA, Vhuhwavhohau

(Geology)

Title of dissertation:

PETROPHYSICAL ANALYSIS OF THERMO-TECTONIC EFFECTS LINKED TO LOWER JURASSIC DOLERITE INTRUSIONS IN SEDIMENTARY ROCKS OF THE MAIN KAROO BASIN, WITH IMPLICATIONS FOR SHALE GAS DEVELOPMENT IN SOUTH AFRICA

Supervisor: Prof MJ De Wit

OLADIPO, Joshua Femi - **Cum Laude**

(Computer Science and Information Systems)

Title of dissertation:

A CONGESTION AWARE ANT COLONY OPTIMISATION BASED ROUTING AND WAVELENGTH ASSIGNMENT ALGORITHM FOR TRANSPARENT FLEXI-GRID OPTICAL BURST SWITCHED NETWORKS

Supervisor: Dr MC Du Plessis

Co-supervisor: Prof TB Gibbon

MASTER OF SCIENCE IN NANOSCIENCE (COURSEWORK)

JOSEPH, Sinelizwi Veronica

Title of treatise:

THE DEVELOPMENT OF RHENIUM (III) OXIDE NANORADIOPHARMACEUTICALS

Supervisor: Prof ZR Tshentu

Co-supervisor: Prof CL Frost

NYEMBE, Hlanganani Sipehelele

Title of treatise:

CORROSION RESISTANCE OF NANOCRYSTALLINE TITANIUM ZIRCONIUM LAYERS DEPOSITED ON ZIRLO

Supervisor: Prof JH Neethling

Co-supervisor: Dr A Janse Van Vuuren

XOLO, Luthando

Title of treatise:

SYNTHESIS OF FOLATE-CONJUGATED PALLADIUM NANOPARTICLES

Supervisor: Prof ZR Tshentu

Co-supervisor: Prof MO Onani

MASTER OF SCIENCE IN TEXTILE SCIENCE (RESEARCH)

PILLAY, Princeton

Title of dissertation:

REDUCING THE BRITTLENESS OF POLY-FURFURYL ALCOHOL RESIN USED IN COMPOSITES

Supervisor: Prof EE Ferg

Co-supervisor: Dr M Chapple

FACULTY OF SCIENCE

THE DEGREE OF DOCTOR OF PHILOSOPHY (CHEMISTRY)

MUHAMMAD SABIU ABDUL-QUADIR

Previous qualifications:

1991	BSc (Ed) Chemistry	University of Lagos, Nigeria
2001	M.Ed. Curriculum Chemistry	University of Lagos, Nigeria
2006	MSc	Chemistry University of Lagos, Nigeria

Thesis:

MOLECULARLY IMPRINTED POLYMERIC MATERIALS FOR ADSORPTIVE REMOVAL OF NITROGEN COMPOUNDS FROM FUEL OILS

The deleterious effects of refractory organonitrogen compounds (namely, quinoline, carbazole, pyrimidine and their alkylated derivatives) found in hydrotreated fuels are such that they emit nitrous oxides to the environment when combusted, thereby reducing air quality. The study investigated the use of oxidative denitrogenation *via* catalysed conversion of nitrogen compounds to N-oxides as well as adsorptive denitrogenation for the removal of organonitrogen compounds from fuel. The candidate demonstrated that selective adsorption of nitrogen containing compounds could be achieved through a series of novel molecularly imprinted adsorbents such as molecularly imprinted polybenzimidazole nanofibers, poly-2-(1*H*-imidazol-2-yl)-4-phenol microspheres and nanofibers. Four articles have been published from this work in international peer-reviewed journals of high impact and two conference papers have been presented.

Supervisor: Prof ZR Tshentu
Co-supervisor: Dr AS Ogunlaja

THE DEGREE OF DOCTOR OF PHILOSOPHY (PHYSICS)

CHINEDU CHRISTIAN AHIA

Previous qualifications:

2006	BSc. Hons (Physics & Astronomy)	University of Nigeria
2011	MSc (Condensed Matter Physics & Mathematical Science)	University of Nigeria
2013	MSc (Mathematical Science)	University of the Western Cape

Thesis:

DEVELOPMENT OF INSB/GASB QUANTUM DOTS BY MOVPE

In this study, inter-diffusion between gallium (Ga) and indium (In) at the interface between the gallium antimonide (GaSb) capping and buffer layers during the capping of indium antimonide (InSb) quantum dots (QDs) was observed to lead to the formation of an indium gallium antimonide (InGaSb) quantum well (QW), instead of QDs. This finding suggests a possible revision of the interpretation of previous data in the literature, whereby the luminescence within the near-infrared region was attributed to QDs instead of a QW. Results from this study indicate that inter-diffusion can be promising as a method for controlling the optical properties of QWs and tailoring the spectral response.

Supervisor: Prof JR Botha

THE DEGREE OF DOCTOR OF PHILOSOPHY (CHEMISTRY)

HOPE BALOYI

Previous qualifications:

2009 BSc Hons (Biochemistry)
2012 MSc (Engineering Sciences, Chemical Engineering)

University of Venda
North West University

Thesis:

INVESTIGATION OF THE THERMO-CHEMICAL BEHAVIOUR OF COAL-ALGAE AGGLOMERATES

The study involved the adsorption of wet microalgae slurry onto waste coal fines to improve the thermo-chemical performance of waste coal fines. Thermal processing of coal-algae agglomerates was carried out to establish the viability of the production of liquid bio-oils from fossil fuel. Findings indicated that the adsorption of wet microalgae slurry onto coal fines enhanced the chemical characteristics and thermal reactivity of coal, and improved the yields of liquid bio-oils. Liquid bio-oils and carbon char residue derived from the pyrolysis of coal-algae agglomerates showed distinct chemical properties as compared to coal derived products. This investigation paves new avenues for research scholars in coal science.

Supervisor: Dr GM Dugmore
Co-supervisor: Prof B Zeelie (late)

THE DEGREE OF DOCTOR OF PHILOSOPHY (CHEMISTRY)

VITUS OBIALO EJESIEME

Previous qualifications:

1999 BSc Hons (Industrial Chemistry)
2011 SAIME Programme (Business Management)
2012 BSc Hons (Formulation Science)
2014 MSc (Chemistry)

Imo State University
University of South Africa
Nelson Mandela Metropolitan University
Nelson Mandela Metropolitan University

Thesis:

AN INVESTIGATION OF THE COMBUSTION KINETICS OF COAL-MICROALGAE COMPOSITE

This study investigated the combustion behaviour of Coalgae®, a unique composite material formed by the adsorption of live micro-algae onto waste coal fines and processing into agglomerate particles, providing a means to re-cycle carbon dioxide and recover waste coal. The combustion properties of Coalgae® were found to be enhanced compared to coal. The ignition temperature was lower and the rate of combustion and peak combustion temperature were higher than coal. Evidence was presented that combustion of Coalgae® was significantly different from coal, algae or a derived combination of these, indicating interaction during combustion of Coalgae®.

Supervisor: Dr GM Dugmore
Co-supervisor: Dr NM Vorster

THE DEGREE OF DOCTOR OF PHILOSOPHY (COMPUTER SCIENCE)

IFEOLUWAPO OMOLADE FASHORO

Previous qualifications:

2008 BSc (Hons) Computing
2011 MSc Management Information Systems

University of Portsmouth, UK
University of Surrey, UK

Thesis:

A SOCIAL MEDIA MODEL FOR PUBLIC PARTICIPATION IN A SOUTH AFRICAN MUNICIPALITY

Social media is ingrained in most aspects of life and has become a driving force behind open, collaborative government and transformation in public participation and engagement. The research aim was to propose a model to leverage social media opportunities and present an effective, structured approach towards public participation. The research design was a mixed-methods approach using a case study based in South Africa's Eastern Cape Province. The research culminated in the development of a model that provides an executable set of steps to implement social media for public participation. The model was implemented in the Nelson Mandela Bay Municipality.

Supervisor: Dr L Barnard

THE DEGREE OF DOCTOR OF PHILOSOPHY (ENVIRONMENTAL GEOGRAPHY)

VINCENT JANI

Previous qualifications:

1994 B.A.
2003 Graduate Certificate in Education
2013 MSc

University of Zimbabwe
University of Zimbabwe
Bindura University of Science Education

Thesis:

DISPUTES, RELATIONSHIPS AND IDENTITY: ANALYSING HUMAN-HUMAN CONFLICTS AS A BASIS FOR HUMAN-WILDLIFE CONFLICTS IN THE MID-ZAMBEZI VALLEY, NORTHERN ZIMBABWE

This study analysed how human-human conflicts underlie human-wildlife conflicts in Chapoto Ward in the mid-Zambezi valley in northern Zimbabwe. The findings indicate that most of the disputes that were recorded were not resolved because they had a long and complicated history, which resulted in previous disputes resurfacing whenever a new one arose. The history of unresolved conflicts resulted in mistrust and failure to find common ground between the parties involved in the conflicts. Furthermore, the source of the disputes and unresolved conflicts was traced back to the identity level, whereby the antagonistic relationships among the stakeholders spilled over into the labelling and stigmatisation of each other. These findings support the new line of thinking that human-wildlife conflict is a complex issue which should not be viewed simply as a problem between people and wildlife but as a conflict between stakeholders with divergent views over wildlife management which manifests as human-human conflict.

Supervisor: Dr AH de Wit
Dr NL Webb (retired)

THE DEGREE OF DOCTOR OF PHILOSOPHY (ZOOLOGY)

YANASIVAN KISTEN

Previous qualifications:

2009	Bachelor of Science in Marine Biology	University of KwaZulu-Natal
2010	Bachelor of Science Honours in Marine Biology	University of KwaZulu-Natal
2013	Master of Science in Biology	University of KwaZulu-Natal

Thesis:

THE EFFECTS OF ENVIRONMENTAL CHANGE ON THE PHYSIOLOGY AND ECOLOGY OF CAPE STUMPNOSE RHABDOSARGUS HOLUBI (STEINDACHNER, 1881) (SPARIDAE)

This study investigated the effects of various environmental changes on the physiology and ecology of *Rhabdosargus holubi* in temperate South African estuaries. The ecology of postflexion larvae of *R. holubi* was strongly mediated by low salinities, high turbidity and high temperature, particularly in permanently open estuaries. Thus, indicating the importance of freshwater inflow in estuarine fish ecology. Juvenile *R. holubi* were less dependent on the environment and were able to tolerate extreme conditions for long periods. These results indicate the robustness of the species and highlight the important ecological role it plays during environmental changes in estuaries.

Supervisor: Prof R Perissinotto
Co-supervisors: Prof NA Strydom

THE DEGREE OF DOCTOR OF PHILOSOPHY (BOTANY)

CÉLIA DA CONCEIÇÃO FELISBERTO MACAMO

Previous qualifications:

2007	BSc (Ecology and Natural Resources Management)	Universidade Eduardo Mondlane
2011	MSc (Aquatic Biology and Coastal Ecosystems)	Universidade Eduardo Mondlane

Thesis:

THE MANGROVES OF MOZAMBIQUE: PATHWAYS TO CONSERVATION THROUGH INTEGRATED MANAGEMENT

This study investigated human and climate-related impacts on mangrove forests. These trees grow at the interface between land and sea and contribute to coastal protection, fisheries production and carbon storage. The research makes a significant contribution to understanding the impact of global threats on mangrove forests. New findings on cyclones and wood extraction were published in two international journal articles. The study analysed the mangrove management system in a country where community dependence on natural resources is high. A critical assessment of the existing institutional and legal instruments showed the importance of strengthening community-based management of mangroves. The research results can be applied globally and are also addressing United Nations Sustainable Development Goals on climate change and sustainable use of ocean resources.

Supervisor: Prof JB Adams
Co-supervisor: Prof S Bandeira

THE DEGREE OF DOCTOR OF PHILOSOPHY (BOTANY)

MANDLA LEON MAGORO

Previous qualifications:

2011 BSc (Hons) (Conservation Biology)
2014 MSc (Zoology)

University of Venda
Rhodes University

Thesis:

CHARACTERIZATION AND ECOLOGY OF SELECTED MICRO-ESTUARIES AND MICRO-OUTLETS IN THE EASTERN CAPE PROVINCE, SOUTH AFRICA

This study investigated the biotic and abiotic properties of micro-estuaries and micro-outlets in the Eastern Cape Province, as well as their general ecological functioning. The micro-outlets were dominated by freshwater conditions and freshwater-associated biota, while mesohaline conditions persisted in the micro-estuaries, with a combination of freshwater and estuary-associated fauna. Micro-estuaries have lower estuarine function in comparison with larger systems such as temporarily open/closed estuaries, with a low representation of estuary-associated phytoplankton, microphytobenthos, zooplankton, macro-zoobenthos and fish assemblages. This study has, for the first time, identified the characteristics necessary for the transformation of a coastal outlet into an estuary.

Supervisor: Prof R Perissinotto
Co-supervisor: Prof AK Whitfield

THE DEGREE OF DOCTOR OF PHILOSOPHY (ENVIRONMENTAL GEOGRAPHY)

DENIS NSEKA

Previous qualifications:

2006 Bachelor of Geography, Second Class Honours Upper Division
2010 Master of Land Use and Regional Development Planning

Makerere University
Makerere University

Thesis:

A CHARACTERIZATION OF LANDSLIDE OCCURRENCE IN THE KIGEZI HIGHLANDS OF SOUTH WESTERN UGANDA

This study analysed the specific topographic parameters, inherent soil properties as well as land use and cover changes considered to be the key underpinnings of the spatial-temporal distribution of landslide occurrence in the Kigezi highlands of south western Uganda. Landslides in these highlands were noted to concentrate along topographic hollows in the landscape. Characterized by deep soil horizons with high clay content dominated by illite/muscovite minerals in the sub soils and profile concave forms with moderately steep slopes, hollows are the most vulnerable slope elements to landslide occurrence. The spatial-temporal patterns of landslide occurrence in Kigezi highlands have changed due to increased cultivation of steep middle and upper slopes. The information this study generated about the area's topographic, pedological and land cover characteristics should help in vulnerability mitigation and enhance community resilience to landslide hazards in this fragile highland ecosystem.

Supervisor: Prof V Kakembo
Co-supervisor: Prof Y Bamutaze

THE DEGREE OF DOCTOR OF PHILOSOPHY (MICROBIOLOGY)

MITRADEV PATTOO

Previous qualifications:

2008	Diploma in Biomedical Sciences	University of Mauritius
2010	BSc (Hons) Biomedical Sciences	University of Mauritius
2012	MSc in Bioinformatics	University of Mauritius

Thesis:

BIOLOGICAL ACTIVITIES OF AN AQUEOUS EXTRACT OF TULBAGHIA VIOLACEA AGAINST CRYPTOCOCCUS SPECIES

This thesis represents an ethno-pharmacological study into the discovery of antifungal compounds from the medicinal plant *Tulbaghia violacea*. In this study the student describes the use of extracts from different plant parts (leaves, roots, rhizomes and tubers) to inhibit the growth of *Cryptococcus neoformans* (a yeast pathogen commonly afflicting HIV / AIDS patients) and *Cryptococcus gattii*. Biochemical testing using the rhizome extract indicated that fungal ergosterol, beta glucan and chitin production were affected, which explains the mechanism of fungal death. Importantly, the extract also affected fungal virulence factors including melanin and urease production. The multi-factorial effect of the extract makes it an ideal candidate for development into an effective antifungal agent.

Supervisor: Dr B Somai

THE DEGREE OF DOCTOR OF PHILOSOPHY (CHEMISTRY)

NOMASONTO RAPULENYANE

Previous qualifications:

2009	BSc (Chemistry & Microbiology)	Rhodes University
2010	BSc (Hons) (Chemistry)	Rhodes University
2012	MSc (Chemistry)	Rhodes University

Thesis:

DEVELOPMENT OF HIGH CAPACITY LITHIUM-MANGANESE-RICH CATHODE MATERIALS $xLi_2MnO_3 \cdot (1-x)LiMn_0.5Mn_0.5O_2$ FOR LITHIUM ION BATTERIES

This study is based on developing novel one-pot synthesis method which involves less procedural steps in making the process time efficient and cost effective. High capacity (≥ 700 Wh/kg specific energy density) cathode materials with good properties for lithium ion batteries such as stable cycling and high rate performance were produced. The candidate published one peer-reviewed journal paper from the work and filed two patents on high capacity cathode materials synthesis for lithium ion batteries. She has also presented her work at local conferences and won best oral presentation award. In June 2018, the candidate presented her work at the BRICS young scientist forum in Durban.

Supervisor: Prof EE Ferg
Co-supervisor: Dr H Luo

THE DEGREE OF DOCTOR OF PHILOSOPHY (PHYSICS)

NGCALI TILE

Previous qualifications:

2005 BSc (Physics with Chemistry)
2006 BSc Hons (Physics)
2013 MSc (Physics)

Walter Sisulu University
University of the Western Cape
University of KwaZulu-Natal

Thesis:

AP-MOVPE GROWTH AND CHARACTERIZATION OF GaSb/GaAs QUANTUM DOTS

Self-organised semiconductor nano-structures have applications in novel optoelectronic devices. In particular, GaSb quantum dots can be incorporated in the active layer of mid-infrared devices for applications in medical diagnostics, environmental sensing, military countermeasures and solar-cells. The growth and control of these nanoscale structures is a scientific challenge. The first and important steps are to understand how they form and to establish the growth conditions to control their morphology. These are achieved in the present study, using Metalorganic Vapour Phase Epitaxy (MOVPE) as the growth technique. The findings in this study are relevant to industry and make a sound contribution to our understanding of quantum dot formation.

Supervisor: Prof JR Botha

THE DEGREE OF DOCTOR OF PHILOSOPHY (ZOOLOGY)

OLGA VARGAS FONSECA

Previous qualifications:

2004 Doctor Veterinary Medicine (DVM)
2009 MSc Animal health and behaviour

National University, Costa Rica
Wageningen University, the Netherlands

Thesis:

POPULATION ECOLOGY OF INDO-PACIFIC BOTTLENOSE DOLPHINS ALONG THE SOUTH-EAST COAST OF SOUTH AFRICA

In this study, the genetic population structure of the Indo-Pacific bottlenose dolphin was assessed across the Agulhas and Natal Bioregions of South Africa. At the same time, the abundance, distribution and habitat use was investigated using boat-based surveys along 145 km of coastline from Goukamma Marine Protected Area (MPA) to Tsitsikamma MPA along the south-east coast of South Africa. Habitat preferences were assessed based on locations of sightings and recorded behaviour, and also compared with those of the sympatric Indian Ocean humpback dolphins. In so doing, the study provides the first assessment of habitat use and population changes as well as improved understanding of the fine-scale genetic differentiation, and sub-population boundaries, of bottlenose dolphins along the South African coast.

Supervisor: Prof PA Pistorius
Co-supervisors: Dr S Kirkman and Dr V Cockcroft

THE DEGREE OF DOCTOR OF PHILOSOPHY (ENVIRONMENTAL GEOGRAPHY)

HANNINGTON WASSWA

Previous qualifications:

2002 Bachelor of Arts with Education
2009 Master of Arts in Geography

Makerere University
Makerere University

Thesis:

THE ECONOMIC AND ECOLOGICAL TRADE-OFFS OF WETLAND CONVERSION FOR DEVELOPMENT PROJECTS: THE CASE OF THE KAMPALA–MUKONO CORRIDOR

This study assessed the spatial and temporal wetland loss to Development Projects (DPs) and analysed the related economic and ecological implications in the Kampala-Mukono Corridor (KMC). It was revealed that almost half of KMC wetlands have been lost between 1974 and 2013, with the greatest losses accruing to DPs. The KMC stands to incur an economic trade-off worth US\$ 139 million, with the greatest percentage accruing to the subsistence level, in the form of incomes and livelihood products. Ecological implications point to altered hydrological regimes, reduced soil organic carbon sequestration potential and resultant local climate variability. Mitigation and conservation measures should involve a revision of historic property rights to regulate wetland use, performance bonds for environmentally friendly activities and tradable permits that utilise the concept of 'wetland banks' to prevent further loss of the KMC wetlands to DPs.

Supervisor: Prof V Kakembo
Co-supervisor: Prof F Mugagga

FACULTY OF HEALTH SCIENCE

THE DEGREE OF DOCTOR OF PHILOSOPHY (PSYCHOLOGY)

PHUMEZA PATRICIA KOTA-NYATI

Previous qualifications:

1994 BA
1995 BA Honours
1999 MA (Counselling Psychology)

VISTA University
University of Port Elizabeth
University of Port Elizabeth

THESIS:

BLACK WOMEN'S NARRATIVES OF WOMANHOOD: BEFORE AND AFTER HYSTERECTOMY

This study investigated experiences of hysterectomy among Black women. Their voices were shared against a background of a patriarchal and dominant medical discourse in the Eastern Cape Province of South Africa. The medical context gives scant consideration to the complex reciprocal influences of hysterectomy. The findings of this research revealed negative experiences resulting from severe symptoms before hysterectomy, exposed multi-layered structures of power and dominance during treatment, and indicated positive outcomes of hysterectomy. The findings should inform medical and allied practitioners regarding hysterectomy as a treatment option and add to the debate on the relationships between hysterectomy, womanhood, and identity.

Supervisor: Prof CN Hoelson

THE DEGREE OF DOCTOR OF PHILOSOPHY (GENERAL HEALTH SCIENCES)

DIANA OELOFSE

Previous qualifications:

1994 MBChB
2003 MMED Haematopathology

University of the Orange Free State
University of the Free State

Thesis:

*HAEMATOLOGICAL MALIGNANCIES IN A SOUTH AFRICAN POPULATION: A STUDY IN
CANCER TRANSITION*

Africa's indigenous populations are urbanising rapidly, leaving behind the spatial context of rural and traditional lifestyles and transitioning into environments modified by complex physical and social changes. High prevalence and an epidemic-like nature of many chronic diseases, including cancer, are associated with populations undergoing these transitions in health. Haematological malignancies are regarded as "rare cancers", yet they too, are becoming increasingly common. This study investigated historical conceptualisation, contemporary incidence and aspects of individual level and contextual epidemiology, with specific reference to the Eastern Cape region of South Africa. Results were characterised by complex patterns suggesting uneven forms of transitions in health among the region's composite population.

Supervisor: Prof I Truter
Co-supervisor: Prof N Smith