# SSAG NEWS 2020/21

## SOCIETY OF SOUTH AFRICAN GEOGRAPHERS

### TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOREWORD</td>
<td>3</td>
</tr>
<tr>
<td>UNIVERSITY OF FORT HARE</td>
<td>5</td>
</tr>
<tr>
<td>UNIVERSITY OF PRETORIA</td>
<td>10</td>
</tr>
<tr>
<td>UNIVERSITY OF ZULULAND</td>
<td>31</td>
</tr>
<tr>
<td>NORTH-WEST UNIVERSITY</td>
<td>40</td>
</tr>
<tr>
<td>STELLENBOSCH UNIVERSITY</td>
<td>48</td>
</tr>
<tr>
<td>UNIVERSITY OF WESTERN CAPE</td>
<td>61</td>
</tr>
<tr>
<td>UNIVERSITY OF FREE STATE</td>
<td>67</td>
</tr>
<tr>
<td>UNIVERSITY OF THE WITSWATERSRAND</td>
<td>72</td>
</tr>
<tr>
<td>UNIVERSITY OF SOUTH AFRICA</td>
<td>87</td>
</tr>
<tr>
<td>NELSON MANDELA UNIVERSITY</td>
<td>96</td>
</tr>
<tr>
<td>UNIVERSITY OF VENDA</td>
<td>99</td>
</tr>
<tr>
<td>UNIVERSITY OF JOHANNESBURG</td>
<td>105</td>
</tr>
<tr>
<td>UNIVERSITY OF CAPE TOWN</td>
<td>115</td>
</tr>
</tbody>
</table>
While most years are versions of the year that came before, 2020 diverted us all onto a different track. I write this foreword on the one-year anniversary of President Cyril Ramaphosa’s announcement of what was supposed to be a 21-day lock down starting on the 26th of March 2020. We scrambled to transfer our offices home, figure out how to do everything online and manage a suddenly insular existence. As we witnessed the overwhelmed hospitals in Spain, Italy and the US, we gained a dread of the ways in which this disease would affect us personally. We have had to reconcile ourselves to collective and personal loss, with a global death toll now approaching three million. Economic devastation has meant that many more people than before are struggling to make ends meet. Given the inverted world we find ourselves in, it is all the more remarkable to read departmental listings in this newsletter of student numbers, completed masters and PhD students, conference papers and publications. The continuation of academic programmes has taken an extraordinary effort and tenacity. The society commends this work in sustaining our discipline. We have been reporting noteworthy points following our Council meetings, and would like to repeat some of these points here so that they are on record as part of this newsletter:

- There has been a changing of the guard at the South African Geographical Journal. Brij Maharaj and Trevor Hill (University of KwaZulu-Natal) reached the ends of their terms as editors, leaving the journal, with our enormous thanks, in extremely good health. The society has now appointed Ashley Gunter and David Hedding (University of South Africa) as editors.
- A revision of the constitution was presented to the September 2020 Biennial General Meeting, updating various clauses and allowing for a larger and more regionally representative Council.
- Jennifer Fitchett (University of the Witwatersrand) has been nominated President Elect, to take over as President in 2022.
- The South African National Geography Olympiad, started in 2017, continues to grow from strength to strength and provides a remarkable platform for outreach into high school Geography.
- The Academic and student conference originally scheduled for 2020 was postponed and will now be hosted by the Department of Geography at Rhodes University as an online event in September 2021.
The two 2020 Jubilee bursary winners are Monique Lottering (University of the Western Cape) and Morgan Lee (from RU). The Two Honours award winners are Lubanzi Dlamini (University of Zululand) and Tsholanang Rammopo (University of Pretoria). The winner of the Bronze Medal for the Best Master’s Dissertation (2019) is Tinashe Kanosvamhira (University of the Western Cape). The winner of the Certificate for the Outstanding Master’s Dissertation by coursework (2019) is Raimo Fernandez (Stellenbosch University). Julia Giddy (University of Mpumalanga); Adriaan van der Walt (University of the Free State); Sifiso Xulu (University of the Free State) have been awarded the Centenary award. Congratulations to all these winners.

The SSAG notes with great pleasure the appointment of Professor Michael Meadows as President of the International Geographical Union, with effect from 1 August 2020. Prof. Meadows is a past President of the SSAG and was also the Secretary-General and Treasurer of the IGU before his election as President. The Society congratulates Prof Meadows on his appointment and wishes him well during his term of office.

In late 2020, the Council welcomed the following new members: Samuel Adelabu (University of the Free State), Delia Ah Goo (North-West University), Nerhene Davis (University of Pretoria), Julia Giddy (University of Mpumalanga), Adrian Nel (University of KwaZulu Natal), Zarina Patel (University of Cape Town).

Following a call by Jennifer Fitchett, Students and Young Professionals have constituted themselves as a group in October 2020. Julia Giddy was elected as the chairperson of this group. The group will begin to develop content for the Society’s web site and a programme to enable interaction and support.

In general I would also like to express my appreciation to those who contribute to the work of the Society. In particular, many thanks to those who have contributed content to this newsletter, and to its editors Ndizulafhi Innocent Sinthumule and Nerhene Davis.

Richard Ballard
UNIVERSITY OF FORT HARE

Name of department:
Geography and Environmental Science

Head of department:
Prof. Paul Sumner

Information about the Geographers and their area of specialisation in the department:

- Dr A M Kalumba: Environmental Sciences - Environmental Sustainability, Urban Studies, Climate change and GIS-Remote Sensing
- Dr H B Magagula: Physical Geography – Geomorphology, Environmental Studies & Pedology.
- Dr S P Mazinyo: Environmental Studies: Corporate & Urban Sustainability, Food Security & Climate Change
- Ms Z A F Mzitshi: Human Geography – Feminist Geography & Rural Development
- Dr R Pillay: Human Geography, Environmental Studies and Cartography
- Ms S Serame: Human Geography, Remote Sensing, Rural Sustainability and Youth Welfare
- Professor PD Sumner: Physical Geography (geomorphology) and Environmental Studies
- Professor W Nel: Physical Geography, Climatology & Geomorphology
- Mrs K Xoxo: Human Geography, Climate Change & Remote Sensing

2020/2021 List of publications:


Publications Continued:


Publications Continued:


Wu, W., Qu, S., Nel, W. and Ji, J. (2020). The impact of natural weathering and mining on heavy metal accumulation in the karst areas of the Pearl River Basin, China. Science of the Total Environment, 734, 139480.


**MSc and PhD graduations and supervisors:**

Ajayi, A.P.: The analyses of retail and transport geography of liquified petroleum products in Ibadan Metropolis, Nigeria. PhD Geography - Supervisor Dr S Mazinyo

Haindongo, P.N.: Integration of Remote Sensing and Local People’s Perspectives in Land Use/Land Cover Change Dynamics Assessment: The Case of Kavango River Basin and its Surrounding Environments in Namibia. PhD Geography – Supervisor: Dr AM Kalumba

Jilimine, L.: The impact of agricultural practices on ecosystem services in the rural Ntabelanga catchment: A case study of Shixini Village, Eastern Cape Province, South Africa. MSc Geography - Supervisors: Dr R Pillay and Prof A. Maroyi.

Rudolph, E.M.: Towards a reconstruction of Marion Island’s glacial history. PhD Geography- Supervisor Prof W Nel and DW Hedding (UNISA)

Mapuka, F.N. The characteristics and trends of rainfall on sub-Antarctic Marion Island and associated air circulation patterns. MSc Geography- Supervisor Prof W Nel.

Mpemba, A.: Spatiotemporal analysis of land cover change over the Amathole Marine Protected Areas, Eastern Cape Province. MSc Geography - Supervisors Dr S Mazinyo and Dr AM Kalumba.

Willie, Y.A.: Spatio-temporal variation of the Land Surface parameters in temperature in King Williams Town, Eastern Cape Province, South Africa. MSc Geography - Supervisor: Dr R Pillay.


Chikungwa, A: Small Town Coastal Communities’ responses to Climate Variability: A case study of Port Alfred, Eastern Cape Province, South Africa. MPhil Environmental Studies – Supervisor: Dr AM Kalumba.

Fotoyi, T: Household and business recycling programmes as green strategies for municipal waste management in East London, South Africa. MPhil. Environmental Studies - Supervisors: Dr R Pillay and Dr AM Kalumba.
2020 student numbers:

1st year: 112
2nd year: 92
3rd year: 15
Honours: 21
MSc: 9
MPhil: 10
PhD: 11

Link to departmental webpage:
https://www.ufh.ac.za/departments/geography/
Name of department:
Geography, Geoinformatics and Meteorology

Head of department:
Professor Serena Coetzee

Information about the Geographers and their area of specialisation in the department:

- Dr. Adeleke Adedayo; Lecturer-Geoinformatics (Geodesy, Surveying)
  adedayo.adedeleye@up.ac.za 0124203536

- Prof. Archer Emma; Associate Professor- Sustainable agriculture/managed ecosystems and climate in Africa
  emma.archer@up.ac.za 012 420 2881

- Prof Beckedahl Heinz; Extraordinary Lecturer-Geomorphology, wetland studies
  hbeckedahl@gmail.com +268 (0) 2518 8859

- Dr. Beraki Asmerom; Extraordinary Lecturer-Geography
  aberaki@csir.co.za

- Dr. Botai Joel; Extraordinary Lecturer - Atmospheric modelling, remote sensing
  Joel.botai@weathersa.co.za 012 423 9096

- Prof. Breetzke Gregory; Associate Professor-Geography of crime (GIS)
  greg.breetzke@up.ac.za 012 420 4318

- Dr. Chirima George; Extraordinary Lecturer – Geoinformatics
  Chirimal@arc.agric.za 012 310 2672

- Dr. Claassen Maius; Extraordinary Lecturer-Environmental science, ecology
  mclaasse86@gmail.com

- Prof. Coetzee Serena; Professor, Director: CGIS, HoD- Geoinformatics (spatial data infrastructures)
  serena.coetzee@up.ac.za 012 420 3823

- Prof. Combrinck Ludwig; Extraordinary Professor- Geodesy
  ludwig@hartrao.ac.za 012 301 3224

- Dr. Cooper Antony; Extraordinary Lecturer-Geographical Information Science (GISc) theory and applications
  acooper@csir.co.za 012 841 4121

- Dr. Davis Nerhene; Senior Lecturer- Human geography (land reform)
  Nerhene.davis@up.ac.za 012 420 2882

- Prof. Dyson Liesl; Associate Professor- Meteorology
  Liesl.dyson@up.ac.za 012 420 2469

- Dr. Engelbrecht Christine; Extraordinary Lecturer- Meteorology
  Christien.Engelbrecht@weathersa.co.za
SSAG NEWS 2020/21
SOCIETY OF SOUTH AFRICAN GEOGRAPHERS

UNIVERSITY OF PRETORIA

Geographers Continued:

• Mr. Esterhuizen Joos; Lecturer retired end 2020- Geoinformatics (surveying)
  Joos.esterhuizen@up.ac.za 012 420 4172

• Dr. Feig Gregor; Extraordinary Lecturer- Environmental science gfeig@csir.co.za

• Dr. Garland Rebecca Extraordinary Lecturer- Regional air quality modelling and environmental health RGarland@csir.co.za

• Dr. Hansen Christel; Lecturer- Geomorphology, applied GIS christel.hansen@up.ac.za 012 420 4215

• Dr. Haussmann Natalie; Senior lecturer- Bio-geomorphology Natalie.haussmann@up.ac.za 012 420 4049

• Dr. Jordan Winifred; Extraordinary Lecturer- Meteorology Winifred.Jordaan@weathersa.co.za

• Mr. Katumba Samy; Lecturer- Geoinformatics Samy.katumba@up.ac.za 012 420 4943

• Mr. Kruger Andries; Extraordinary Lecturer- Meteorology Andries.kruger@weathersa.co.za 012 367 6016

• Prof. Landman Willem; Professor- Meteorology Willem.landman@up.ac.za 012 420 3713

• Mr. Loubser Michael; Lecturer- Geomorphology michael.loubser@up.ac.za 083 328 5754

• Dr Mathieu Renaud; Extraordinary Lecturer (until end 2019)- Geoinformatics (remote sensing) mathieurn@aim.com

• Ms Mdleleni Azile; Work Integrated Learning intern (until March 2020- Geoinformatics u15099832@tuks.co.za

• Dr. Ndarana Thando; Senior Lecturer- Meteorology thando.ndarana@up.ac.za 012 420 5164

• Dr Nsubuga Francis; Senior Lecturer- Climate change, Land use, Water resources management, Livelihoods francis.nsubuga@up.ac.za 012 420 2532

• Prof. Olivier Jana; Extraordinary Professor- Meteorology jana1@mweb.co.za

• Dr. Olwoch Jane; Extraordinary Lecturer- Climate change and environmental health jolwoch@sansa.org.za +264 (0) 61 223 9977

• Ms Piiper Lauren; Academic intern (until September 2020) – Geoinformatics u04461615@tuks.co.za
Geographers Continued:

• Dr. Romoelo Abel; Extraordinary Lecturer- Geo-information Science (remote sensing), earth observation
  abel.ramoelo@sanparks.org 087 802 7895

• Dr Rautenbach Victoria; Senior Lecturer-Geoinformatics
  victoria.rautenbach@up.ac.za 012 420 3489

• Dr. Schmitz Peter; Extraordinary Lecturer-Geoinformatics
  schimpmu@unisa.ac.za 011 471 2262

• Adv. Snijman PJ; Extraordinary Lecturer-Environmental Law
  pjsnijman@gmail.com

• Dr. Tsele Philemon; Senior Lecturer-Geoinformatics (remote sensing)
  Philemon.tsela@up.ac.za 012 420 4939

• Dr. van Aardt Isa; Extraordinary Lecturer-Meteorology
  ivanaardt@vodamail.co.za

• Mr van der Merwe Barend; Lecturer-Geocomputation (AI)
  barend.vandermerwe@up.ac.za 012 420 3699

• Dr van Deveter Heidi; Extraordinary Lecturer- GIS, geomorphology, freshwater ecosystems
  hvdeventer@csir.co.za

• Dr Wright Caradee; Extraordinary Lecturer- Public health, geography
  cwright@mrc.ac.za

Support staff in the Department:

• Ms. Cilliers Marinda; Course administrator- Administration CFES
  mcilliers@zoology.up.ac.za 012 420 4048

• Mrs Mah langu Popi; Lab Assistant
  Popi.mahlangu@up.ac.za 012 420 2880

• Mrs Ngcongo Lunga; Departmental administration- Administration and Student Enquiries
  Lunga.ngcongo@up.ac.za 012 420 3536

• Ms. Pretorius Erika; Senior technical assistant- GIS support
  Erika.pretorius@up.ac.za 012 420 3737

• Mrs van Aardt Corne; Departmental Coordinator -Administration and Finances
  Corne.vanaardt@up.ac.za 012 420 2489

• Mr Snyman Lourens; Senior Cartographer-Geospatial Information Services
  lourens.snyman@up.ac.za 082 376 4063
Exciting departmental news:

Celebrating trailblazing women in science
August in Women's Month in South Africa and celebrates the sacrifices women have made to our society. One of our graduates was featured by the Presidency of South Africa in 2019, Dr Mary-Jane Bopape, the current Chief Scientist at the South African Weather Service who leads a group of scientists responsible for radar, satellite and lightning detection network data, is developing South Africa's first weather and climate change modelling system. Dr Bopape graduated from the university in 2013 with her thesis titled Simulations of moist convection using the quasi-elastic equations. She was supervised by Professor Willem Landman. For more on Dr Bopape's recent work have a look here or here.

Students win award at SAAG
Two of our students, Jason le Roux (Masters) and Maleho Sadiki (Honours), were jointly awarded the prize for the best student work using geospatial analyses and GIS at the recent SAAG biennial conference. Jason has been developing a wetland map for Eswatini (formerly Swaziland) using a combined field work and digital approach. Maleho has been mapping water bodies on Marion Island using remote sensing and GIS methods. Jason was supervised by Heinz Beckedahl, an extraordinary professor in our department, as well as Paul Sumner from the University of Fort Hare.

Maleho was supervised by Christel Hansen from our department, as well as Michelle Greve from the Department of Plant and Soil Sciences, also at UP. The two student prizes were awarded during the SAAG conference dinner on Tuesday 17 September 2019 and prizes (a cash prize of R 500.00 each) were sponsored by Esri South Africa. The outgoing SAAG President, Professor David Hedding from Unisa, gave Jason and Maleho their awards on behalf of Esri South Africa. For more on the conference have a look here or look at our gallery.

Two UP lecturers elected to SA Association of Geomorphologists Council
Dr Christel Hansen and Michael Loubser, both lecturers in the Department of Geography, Geoinformatics and Meteorology in the Faculty of Natural and Agricultural Sciences at the University of Pretoria (UP), were recently voted onto the Southern African Association of Geomorphologists (SAAG) Council for the 2019 to 2021 term. Dr Hansen is the current SAAG President and Loubser will serve as Secretary on the Council.

BScHons Geoinformatics student wins award at SANSA student workshop
Maleho Sadiki, a current student enrolled in BScHons Geoinformatics in our department, recently attended the SANSA Student Workshop, held from 7-11 October 2019 in Hermanus, Western Cape. At this workshop Maleho was also awarded the prize for the best student honours presentation.
For her honours project Maleho has mapped water bodies on Marion Island using remote sensing and GIS methods. She is jointly supervised by Dr Hansen from our department, and Dr Greve from the Department of Plant and Soil Sciences.

Department receives recognition at GISSA Gauteng award ceremony
The GISSA Gauteng Awards and Annual General Meeting were held on Thursday, 28 November 2019 at the Tatso Lounge Bar at Time Square in Pretoria. At the award ceremony institutions and individuals that have contributed to geoinformation science, education or GISSA were acknowledged. The Department of Geography, Geoinformatics and Meteorology was nominated and won the Professional Education, Training and Capacity building category, beating the likes of Wits, UJ, ESRI, TGIS, AfriGIS, Intergraph Systems, and Hexagon. Prof Serena Coetzee and Dr Victoria Rautenbach, as well as Dr Anthony Cooper, an extraordinary lecturer with us were among the nominees for the Contribution to the development of the Geospatial Industry category, with Prof Coetzee receiving the runner-up award. Dr Liz Gavin was the winner in this category.

Lecturer receives WRC award
Dr Liesl Dyson was awarded the Knowledge Tree Innovation Award from the Water Research Commission. This award celebrates outstanding design, process and product development of innovative technologies and was awarded during the gala dinner held on 11 September 2019 during the 4th WRC Symposium. She received the reward for the WRC project entitled "The impact of the predictability of continental tropical lows on hydrological modelling: current state and future projections".

Lecturer elected to the GLOBE Education Working Group
Dr. Francis Wasswa Nsubuga was elected to the GLOBE Education Working group as the Africa representative for another 3 yrs. GLOBE (Global Learning and Observations to Benefit the Environment) is an international science and education program aimed at providing students and the public the opportunity to participate in data collection and the scientific process. He has been serving on the working group since 2016. The purpose of the Working Groups (WGs) is to enhance the role of GLOBE U.S. and Country Partners and GLOBE Scientists and Educators in shaping the future of the GLOBE Program and supporting the development and implementation of GLOBE worldwide.
Departmental news continued:

**Temperature predictions for 19 towns in South Africa**

There was speculation that COVID-19 follows a seasonal pattern or that the virus does not survive as well in warmer temperatures. Some evidence suggests that the virus survives better at colder temperatures, similar to other viruses such as SARS. In terms of seasonality, the virus is still too new to have any firm data on how cases will change with the seasons.

A team of leading South African environmental scientists, from a range of institutions, has been formed under the auspices of the Department of Science and Innovation (DSI) to consider the environmental aspects (including weather, climate and air pollution) of the epidemic in this country and the region. This is just one aspect of DSI’s coordinated effort to mobilise South African scientific resources to help mitigate this national crisis. The team is advising the epidemiological modelling group of the National Department of Health on this issue. The UP contribution is the seasonal forecasting of minimum and maximum temperatures for 19 locations across South Africa. As part of the department's effort to contribute toward the COVID-19 crisis, Prof Willem Landman and his team have been modelling seasonal expected minimum and maximum temperatures for 19 locations in South Africa.

The forecasts are for three equi-probable categories of above-normal, near-normal, and below-normal. The numbers next to the colour bars show forecast skill as determined over 38 years of hindcasts (or re-forecasts). There is a skill value next to each category, and when that value is higher than 500 it means that over the test (verification) period, the model was able to discriminate that category from the other two. The four numbers below the colour bars represent (from top to bottom) the 25th, 33.3rd, 66.7th and 75th percentile values in degrees Celsius of the observed data over the same 38 years.

For more on the archive of seasonal forecasts of not only temperature but also rainfall, please have a look at Seasonal Forecast Worx. For more on COVID-19 please visit the COVID-19 Corona South African Resource Portal.

**University of Pretoria one of the top 10 universities of Esri Learn ArcGIS**

The University of Pretoria is one of the top 10 universities worldwide using Esri's Learn ArcGIS platform (2019 data). This platform includes GIS lessons, as well as guidance on how to teach with GIS.

The Department of Geography, Geoinformatics and Meteorology offers numerous GIS and geomatics courses, making use of both FOSS and proprietary software. Through the Unit for Geoinformation and Mapping the department also performs a supporting role through the provision of data,
Departmental news continued:

GIS software and licenses, as well as analytical and mapping support. This is provided to students and staff alike. By placing 9th in the world in using the Esri platform the department's role in furthering and enhancing GIS-related skills at the university and South African society is highlighted.

GGM student announced as the 2020 Esri YSA Winner

Azile Mdleleni was announced as the 2020 Esri Young Scholar Award winner for her participatory GIS (PGIS) project. For her BScHons Geoinformatics research project, Azile focused on the daily struggles of individuals who live in the informal settlement of Alaska, City of Tshwane. PGIS is a method which aims to use local knowledge to map an area and places an emphasis on community involvement. This allows for an open line of communication with the community and thus a better understanding of their needs. In this project, this was done through in-depth interviews with community members in order to identify and understand their daily struggles. The result of the analysis was two visualisations were created (i.e. a web map and a story map) to communicate the results of the interviews.

The web map provided a detailed look at the daily struggles. The web map can be used by community leaders when communicating with local governments and other stakeholders, such as non-profits. The community members would have maps which they helped create and their involvement in the process of decision-making could ultimately lead to empowerment. The main outputs of Azile’s project can be accessed here, https://storymaps.arcgis.com/stories/c928b339a5bb429cbc445f2be803ed5f (story map) and https://uparcgis.maps.arcgis.com/apps/webapppviewer/index.html?id=1ac9f86179e941ce818d2f0801d83dc (web map)

UP team proposes single address dataset to identify and respond to emerging COVID-19 clusters

A team from the University of Pretoria (UP) proposed a way forward for establishing and coordinating a single address dataset for Gauteng, which could be adopted by the rest of the country. One address dataset is needed now more than ever, as addresses are imperative to control and slow down COVID-19 infections, says Professor Serena Coetzee, Head of UP’s Department of Geography, Geoinformatics and Meteorology. Without a patient’s address on the form, they cannot be located, and the geographical spread of the disease cannot be monitored effectively, leading to inaccurate impact assessments and possible overloading of health services.
Departmental news continued:

There is also no way to support such cases in the home environment. “In the current pandemic, this can lead to loss of life if emerging clusters of COVID-19 infections cannot be identified and responded to timeously,” cautions Prof Coetzee. Currently, address data in the Gauteng City-Region is maintained in silos at different government entities, without any coordination and adherence to international standards and good practices. Addresses provided to these government entities – such as when applying for subsidies or for a municipal account – are not always validated and verified against a reference dataset. “This results in duplication, inconsistencies and even fraud, which cost the municipalities, provincial and national governments billions, and damage their reputation,” says Prof Coetzee. The road to better address data in South Africa requires multiple interventions and initiatives, including raising awareness; describing, encouraging and nurturing good practices; and providing policies and legislation to guide government in its work. “More than one government entity could be assigned the mandate to coordinate a national or provincial address dataset,” explains Prof Coetzee. “To move forward, a decision and strong political leadership together with sustainable funding are required.”

Gauteng’s address datasets are maintained at its municipalities, meaning it could lead the rest of the country by example towards a single uniform address dataset that can be used as a reference by everybody.

To support the fight against COVID-19, the South African Bureau of Standards has made SANS 1883 freely available to anyone here. It describes all the different kinds of addresses in use in South Africa, including street, site, and informal addresses. “SANS 1883-2 explains how addresses can be converted into a single uniform data format, regardless of whether they were written on paper, entered in an online form or are part of a municipal geospatial data infrastructure,” Prof Coetzee explains. Using the same names or terms for different kinds of addresses is a first step towards avoiding inconsistencies and confusion. Following the same data format makes it possible to develop tools that verify and validate addresses and to integrate data from different municipalities into a single provincial dataset.

Addresses are key to governance and decision-making in a municipality, province, or country. “They are essential for elections, tax collection, service delivery and emergency response,” explains Prof Coetzee. Because different government entities work within the same geographical space, it makes sense to have a single address dataset that everybody can use. “This eliminates duplication and inconsistencies, reduces costs, and makes it possible to exploit synergies. This leads to a better return on investment for taxpayers’ money.”
Departmental news continued:

Meteorology Honours student wins award

One of the Department's BScHons Meteorology students, Tsholanang Rammopo, was awarded with one of the 2019 SSAG Outstanding Honours Research Awards. The Society of South African Geographers (SSAG) awards two such awards each year, to highlight outstanding work done by students in the geographical and related sciences. Tsholanang's Honours research report was titled The role of nonquasigeostrophic forcing during cut-off low pressure system onsets over South Africa and supervised by Dr Thando Ndarana. The Department would like to congratulate Tsholanang on his outstanding achievement. The Department would also like to thank the SSAG for their continued support of students and emerging career researchers in the geographical sciences.

Three Meteorology BScHons students win awards at the virtual conference of the Society of Atmospheric Sciences (SASAS) for their 180 second research presentations. Manthata Molebohene and Kanyisa Makubalo shared the third prize and Tsholofelo Naledi received the second prize.

New staff members, and one retirement

In 2020 we welcomed two new members to our team, saying good-bye to one of our team in 2021. Adedayo and Samy joined us as lecturers in the Geoinformatics programme, whereas Lourens joined us as the Senior Cartographer in our Geospatial Information Services section.

Adedayo is a geomatics professional, focusing on remote sensing and GIS techniques and applications. His PhD focused on integrating remote sensing and GIS techniques to build a web-based tool that models and evaluates the potentials of building-integrated solar photovoltaic systems. He will be teaching Geometric and Space Geodesy, Surveying, Spatial Statistics, and Geodesy. Samy is registered with SACNASP as a Pr. Sci. Nat. (Geospatial Science) and his research interests are scattered in the fields of spatial statistics, spatial econometrics, Web GIS, spatial analysis, geospatial data mining, machine learning and online geo-information retrieval. He has a keen interest in studying the spatial dimension of socio-economic phenomena such as poverty, inequality, and diversity/segregation by analysing relevant geospatial data using methods from spatial statistics, spatial econometrics and machine learning. Samy will be teaching Introduction to Geographic Information Systems (GIS), Geospatial Data and Services, as well as spatial analysis. Lourens is currently enrolled in his PhD Geography at the University of Pretoria. His research interests centre on geographic accessibility, spatial behavioural economics, spatial analysis, and map visualisation. Joos Esterhuizen, who has been with the University of Pretoria for more than 30 years, retired in 2021.
Departmental news continued:

Brian Nkala awarded a FES Scholarship to attend the FES New York Fall Academy

The Department would like to congratulate Brian Nkala, one of our Masters students, on receiving one of the prestigious Fredrich-Ebert-Stiftung (FES) New York scholarships to attend their FES New York Fall Academy: “Young Leaders Needed to achieve the SDGs! Brian was selected as one of 15 successful applicants from a pool of 78 applicants from around the globe. He will now travel to New York to attend the event from Monday, November 8, 2021 until Friday, November 12, 2021.

The FES New York Fall Academy focuses on the Sustainable Development Goals and provides successful applicants an excellent opportunity to deepen their knowledge of the UN 2030 Agenda, as well as the work, structures, and political dynamics of the United Nations. All participants will learn of the practical implications of the 2030 Agenda, with the aim of utilising these for progressive, transformative politics in their home counties.

This is a well-deserved award. Brian, who holds a Bachelor of Science in Environmental Sciences and an Honours degree in Geography and Environmental Sciences from the University of Pretoria, co-founded the Greenline Society at the University of Pretoria.

He believes in using the Internet and technology to transform societies with the aim of changing consumers of technology into producers of technology. Brian also volunteers at several Non-Profit Organizations, facilitated computer classes in a Mamelodi Initiative, is a former country coordinator on digital grassroots, was a member of the Student Representative Council (SRC) at the University of Pretoria in 2016, and was a Youth Fellow with the Internet Society Youth@IGF in 2017. He has also participated in the Internet Governance Forum in collaboration with the United Nations and the Internet society in Geneva Switzerland and is a current Common Purpose Fellow. In 2019 he attended the SUSI Closing Forum Alumni Panel of the 2019 Study of the U.S. Institutes for Global Student Leaders Closing Forum as a SUSI All-Star Alumni in recognition of his leadership and community engagement.
2020/2021 List of publications:


Publications Continued:


Publications Continued:


Publications Continued:


Publications Continued:


Publications Continued:


Olabanji M, Ndarana T, Davis NC, Archer E (2020). Climate change impact on water availability in the olifants catchment (South Africa) with potential adaptation strategies. Physics and Chemistry of the Earth, 120 (102939), pp. 1 - 10.


Publications Continued:


MSc and PhD graduations and supervisors:

Albers, Patricia (2020), PhD. Environmental influences on the effectiveness of the measles booster vaccine among 18-month-old children in a rural community of Limpopo province, South Africa. Supervisor: Caradee Wright.

Buthelezi, Sikhumbuzo (2020), PhD. The risk of exposure to indoor air pollution in low income settlements in Durban, South Africa. Supervisor: Caradee Wright.


Munthali, Maggie (2020), PhD. Analysis of land use and land cover dynamics and its implications on natural resources in Dedza District, Malawi. Supervisor: Nerhene Davis, co-supervisor: Joel Botai.
MSc and PhD graduations and supervisors Continued:

Tshehla, Cheledi (2020), PhD. Determination of heavy metal composition of particulate matter in a typical chrome and platinum mine area in Limpopo Province, South Africa. Supervisor: Caradee Wright, co-supervisor: G. Djolov.


Cullen, Sean (2020), MSc. Optical remote sensing techniques for estimating forageable pasture biomass in semi-arid areas in the Northern Cape. Supervisor: Joel Botai.


Kruger, Carene (2020), MSc. Composition and stand dynamics of Karee (Searsia lancea (L.f.) F.A. Barkley) clusters in the Central Bushveld, Marikana-Brits area, North West Province. Supervisor: Prof Coert Geldenhuys.


Mzoboshe, Skhumbuzo (2020), MSc. Utilization of Indigenous Trees and Its Impact on Species Diversity in Soto, Eastern Cape. Supervisor: Dr IC Madakadza

MSc and PhD graduations and supervisors Continued:

Nkhabu, Malilomo Francisca (2020), MA. The role of local government in the implementation of Sustainable Development Goals: A case of Tshwane Municipality. Supervisor: Dan Darkey.


2020 student numbers:

<table>
<thead>
<tr>
<th>Degree</th>
<th>Enrolled 2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSc: Environmental Sciences</td>
<td>98</td>
</tr>
<tr>
<td>BSc: Geography</td>
<td>33</td>
</tr>
<tr>
<td>BSc: Geoinformatics</td>
<td>59</td>
</tr>
<tr>
<td>BSc: Meteorology</td>
<td>38</td>
</tr>
<tr>
<td>BScHons: Geography &amp; Environmental Science</td>
<td>11</td>
</tr>
<tr>
<td>BScHons: Geoinformatics</td>
<td>14</td>
</tr>
<tr>
<td>BScHons: Meteorology</td>
<td>11</td>
</tr>
<tr>
<td>BSocSciHons: Geography &amp; Environmental Science</td>
<td>2</td>
</tr>
<tr>
<td>MA: Environment and Society</td>
<td>8</td>
</tr>
<tr>
<td>MA: Geography</td>
<td>1</td>
</tr>
<tr>
<td>MSc: Environment and Society</td>
<td>14</td>
</tr>
<tr>
<td>MSc: Environmental Management</td>
<td>8</td>
</tr>
<tr>
<td>MSc: Geography</td>
<td>3</td>
</tr>
<tr>
<td>MSc: Geoinformatics</td>
<td>18</td>
</tr>
<tr>
<td>MSc: Meteorology</td>
<td>14</td>
</tr>
<tr>
<td>PhD: Air Quality Management</td>
<td>1</td>
</tr>
<tr>
<td>PhD: Environment and Society</td>
<td>9</td>
</tr>
<tr>
<td>PhD: Environmental Management</td>
<td>5</td>
</tr>
<tr>
<td>PhD: Geography</td>
<td>12</td>
</tr>
<tr>
<td>PhD: Geoinformatics</td>
<td>12</td>
</tr>
<tr>
<td>PhD: Meteorology</td>
<td>7</td>
</tr>
</tbody>
</table>
Changes to the curriculum or course offerings:

Comprehensive information on all our degree program offerings can be found at https://www.up.ac.za/geography-geoinformatics-and-meteorology/article/20918/academic-programmes.

**Geography & Environmental Science**
The BSc Geography and BSc Environmental Sciences degrees were merged into one combined degree (BSc Geography and Environmental Sciences), offering 5 areas of specialisation. These are majors in 1) Geoinformatics, 2) Plant Science, 3) Soil Science, 4) Anthropology, and 5) Heritage and Cultural Tourism. This combined degree will be offered for the first time in 2021.

**Geoinformatics**
The BSc Geoinformatics and BScHons Geoinformatics degrees were re-accredited by the South African Geomatics Council in late 2019, for the period 2019-2023.

**Meteorology**
The BSc Meteorology and BScHons Meteorology degrees were streamlined and modified to become BIP-M compliant according to the World Meteorological Organization (WMO).

**Centre for Geoinformation Science**
The Centre for Geoinformation Science is currently dormant.
Name of department: Geography and Environmental Studies

Head of department: Dr I Moyo

Information about the Geographers and their area of specialisation in the department:

- Dr I Moyo; Political Geography Urban Geography Migration Studies Border Studies MoyoI@unizulu.ac.za 035 9026340

- Dr ML Mdoka; Senior Lecturer-Atmospheric Science MdokaML@unizulu.ac.za 035 9026623

- Dr NB Mbatha; Senior Lecturer- Atmospheric Physics and Chemistry MbathaNB@unizulu.ac.za 035 9026400

- Mr Mthembu, A.T; Lecturer-Demographics and Community Health; Cultural and Physical Environments mthembua@unizulu.ac.za 035 9026329

- Mrs Ndimande, N.P; Lecturer- Rural Geography and Environmental Management ndimanden@unizulu.ac.za 035 9026330

- Mr N G Xulu; Lecturer- Environmental Management, Atmospheric Science and GIS XuluNG@unizulu.ac.za 035 9026331

- Miss Jabulile H Mzimela; n-Gap Lecturer- Environmental Management Human Geography MzimelaJ@unizulu.ac.za

- Prof Jury, M.R.; Research Fellow-Atmospheric Science mark.jury@upr.edu

Support staff in the Department:

- Mrs Khumalo, D; Secretary khumalod@unizulu.ac.za 035 902 6318

- Mr L.C. Shongwe; Senior Laboratory Assistant - Human geography Remote sensing and GIS ShongweL@unizulu.ac.za 035 902 6332
Exciting departmental news:

In January 2021, the Department of Geography and Environmental Studies welcomed Miss Jabulile H Mzimela an n-Gap Lecturer. She is a Human Geographer whose research lies at the intersection of feminist political ecologies and black Geographies.

Lubanzi Dlamini was awarded the Society of South African Geographers (SSAG) Outstanding Honours Research Award for 2020. This research award was based on her Honours research project titled: Monitoring Mining Disturbance and Restoration over RBM Site in South Africa Using LandTrendr Algorithm and Landsat Data. This was published in a DHET accredited journal, Sustainability. Lubanzi is currently studying for her MSc at the University of the Witwatersrand.

2020/2021 List of publications:

**Authored Books**


**Edited Books**


List of publications Continued:

Book chapters:


List of publications Continued:

Book chapters:


Peer reviewed Journal articles


Jury, M.R. and Goschen, W.2020. Inter-relationships between physical ocean-atmosphere variables over the shelf south of South Africa from reanalysis products Continental Shelf Research02 104135 doi.org/10.1016/j.csr.2020.104135
List of publications Continued:


List of publications Continued:


René Tato Loua, Hassan Bencherif, Nelson Bègue, Nkanyiso Mbatha, Thierry Portafaix, Alain Hauchecorne, Venkataraman Sivakumar, Zoumana Bamba: Surface Temperature Trend Estimation over 12 Sites in Guinea Using 57 Years of Ground-Based Data: Climate 2020, 8(6), 68; https://doi.org/10.3390/cli8060068.


Conference presentations:

Cele, HMS and Moyo, I; Protected areas and environmental conservation in KwaZulu-Natal, South Africa: On marginalization, livelihoods and sustainable development 5-6 March 2020 Accelerating the implementation of the SDG's in Africa, Unisa, Pretoria

Jury MR; Inter-disciplinary earth science research Rutgers Bi-centennial Celebration 13 Nov 2020 (by zoom – virtually)
Conference presentations continued:

Mbatha N; Cape Point and Zeppelin Atmospheric Mercury (Hg) Time Series Analysis and Forecasting Using a Novel Hybrid LSTM Data-Driven Models 8-10 December 2020 (by Zoom) 1st “Perspectives on Global Change” Research Conference: Science Access Conference

Mbatha N; Atmospheric modelling over South Africa 17 November 2020 Minamata Online: Multimedia modelling of global mercury movement organised by “Minamata Convention on Mercury”


Session-Category: Big Data Analytics and Artificial Intelligence in Geosciences Time Series Analysis and Forecasting Using a Novel Hybrid LSTM Data-Driven Model-Based on Empirical Wavelet Transform Applied to Total Column Ozone at Buenos Aires, Argentina

Invited Speaker:

Mbatha N:
Conference: EARTH AND ENVIRONMENTAL SCIENCES INTERNATIONAL WEBINAR CONFERENCE 2021 (1-2 February 2021)
https://www.eesiwc.com/speaker/

MSc and PhD graduations and supervisors:

Makhathini MSM. Investigating African migrant informal enterprises in uMhlathuze municipality: Nature, extent and policy response. MA-Supervisor; Dr I Moyo

Cele HMS A comparative investigation of Indigenous Knowledge Systems in the conservation of Protected Areas in KwaZulu-Natal, South and Portland, Jamaica. MA-Supervisor Dr I Moyo

Xulu, SLRG Investigating the impact of Phinda Private Game Reserve on the livelihoods of the community of Mnqobokazi, Kwazulu-Natal. MSc-Supervisor Dr I Moyo

Sibiya L Investigatingsmall-scalecommercial afforestation and catchment management area in Manguzi, uMhlabuyalingana Local Municipality, Nwazulu-natal: Livelihoods, policy and conflict. MA- Supervisor Dr I Moyo

Bukhosini, Z Investigating the impact of and response to drought by small scale farmers in Mfekayi, Mtubatuba, Kwazulu Natal. MA-Supervisor Dr I Moyo
MSc and PhD graduations and supervisors Continued:

Maseko, ZTM; Assessing the influence of natural resource conservation on the livelihoods of KwaNibela, KwaZulu-Natal. MA- Supervisor Dr I Moyo

Phungula, PT; An analysis of the land rehabilitation programme of the Tronox mine: Environmental justice and the community of Gobandlovu. MA- Supervisor Dr I Moyo & Dr NB Mabtha, Dr S Xulu

Mashiyane, ZN; An analysis of the sustainability of small-scale farming in Dukuduku, KwaZulu Natal, South Africa. MA- Supervisor Dr I Moyo

Short description of the curriculum presented:

Undergraduate (NQF levels 5, 6 and 7):

Geography 1 (4GES100)
• Earth Science
• Atmospheric Science
• Environmental Management
• Cultural Environment
• Tourism

Geography 2 (4GES200)
• Global Landforms
• Cartography and Thematic Mapping
• Demographics and Community Health
• Sustainable Development
• Hydrometeorology

Geography 3 (4GES300)
• Urban Geography
• Recreation Geography
• Land Use and Resource Management
• Environmental Management
• Environmental Fieldwork and Research
• Atmospheric processes and pollution
• Climate dynamics, weather variability and prediction
Description of the curriculum presented continued:

Postgraduate (NQF level 8):
• Bachelor of Arts (Honours) – BA Hons
• Bachelor of Science (Honours) – BSc Hons

Postgraduate (NQF level 9):
• Master of Arts – MA
• Master of Science – MSc

Postgraduate (NQF level 10):
• Doctor of Philosophy in Geography – PhD

2020 student numbers:

<table>
<thead>
<tr>
<th>Year</th>
<th>First Year</th>
<th>Second Year</th>
<th>Third Year</th>
<th>Honours</th>
<th>Masters</th>
<th>Doctoral</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA Hons</td>
<td>533</td>
<td>269</td>
<td>149</td>
<td>6</td>
<td>12</td>
<td>2</td>
</tr>
<tr>
<td>BSc Hons</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MSc</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PhD</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2021 student numbers:

<table>
<thead>
<tr>
<th>Year</th>
<th>First Year</th>
<th>Second Year</th>
<th>Third Year</th>
<th>Honours</th>
<th>Masters</th>
<th>Doctoral</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA Hons</td>
<td>471</td>
<td>253</td>
<td>147</td>
<td>13</td>
<td>7</td>
<td>3</td>
</tr>
<tr>
<td>BSc Hons</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MSc</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PhD</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
NORTH -WEST UNIVERSITY

Name of department:
Geography and Environmental Management

Head of department:
• Prof Dirk Cilliers

Information about the Geographers and their area of specialisation in the department:
• Prof Dirk Cilliers; Associate Professor-Environmental Management / Spatial analysis Dirk.cilliers@nwu.ac.za 018 299 1589

• Prof Stuart Piketh; Professor and Director School of Geo and Spatial Sciences-Climatology and climate modelling Stuart.piketh@nwu.ac.za 018 299 1582

• Prof Dewald van Niekerk; Professor-Disaster risk management Dewald.VanNiekerk@nwu.ac.za 018-299-1634

• Prof Luke Sandham; Professor- EIA effectiveness in South Africa Luke.sandham@nwu.ac.za 018 299 1585

• Prof Roelof Burger; Associate Professor-GIS and climate modelling Roelof.burger@nwu.ac.za 018 299 4269

• Prof Livhu Nemakonde; Associate Professor- Disaster risk management 24539155@nwu.ac.za 018-299-1671

• Dr Christo Coetzee; Senior Lecturer-EMS & Waste management Christo.Coetzee@nwu.ac.za 018-299-1630

• Dr Claudine Roos; Senior lecturer- EMS & Waste management Claudine.roos@nwu.ac.za 018 299 1477

• Dr Theuns de Klerk; Senior lecturer- GIS Theuns.deklerk@nwu.ac.za 018 299 1583

• Mr Manna Stander.; Lecturer- Human Geography Manna.Stander@nwu.ac.za 018 299 1587

• Ms Carli Steenkamp; Lecturer- EIA and Environmental Planning Carli.steenkamp@nwu.ac.za 018 299 1523

• Mr Monray Belelie; Lecturer- Climatology

• Dr Joseph Adesina; Temporary appointment Aerosols Climatology Air quality Joseph.Adesina@nwu.ac.za 018-299-1511
Exciting
departmental news:

Prof Dewald van Niekerk was awarded a B rating by the NRF.

Prof Luke Sanham was promoted to full-professor and is also currently acting as the dean for the Faculty of Humanities.

Prof Livhu Nemakonde and Prof Dirk Cilliers were promoted to Associate Professors.

Prof Roelof Burger and Prof Dirk Cilliers were awarded teaching excellence awards by the NWU.

A paper published in the subject group was nominated for best paper of 2020 in the IAPA Journal.
2020/2021 List of publications:


Publications continued:


Publications continued:


MSc and PhD graduations
and supervisors:

**MSc**
- PW Bredenkamp  Prof van Niekerk
- T Nkolanyane  Prof van Niekerk
- N Mkhize  Prof van Niekerk
- M Cloete  Prof Cilliers
- MC Kaibe  Prof Nemakonde
- F Lavhelani  Prof Piketh

**M.Env. Man.**
- J Mathipa  Prof Cilliers
- C Blignaut  Prof Cilliers
- TH Dlomo  Dr Roos
- LM Mmolai  Dr Roos
- RM Muedi  Dr Roos
- A Sohan  Dr Roos
- MA Kekana  Dr Kruger
- NZ Matlakala  Dr Kruger
- N Mkhize  Dr Kruger
- L Moreoane  Prof Burger
- P Makgoka  Ms Steenkamp
- B Galego  Ms Steenkamp

**PhD**
- B Banda  Prof Nemakonde & Prof van Niekerk
- D Klopper  Prof Piketh
- L Muyemeki  Prof Piketh
- N Walton  Prof Piketh

2020 student numbers

<table>
<thead>
<tr>
<th></th>
<th>First years</th>
<th>Second years</th>
<th>Third years</th>
<th>Honours</th>
<th>Masters</th>
<th>A PhD’s</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSc</td>
<td>290</td>
<td>175</td>
<td>112</td>
<td>21</td>
<td>45</td>
<td>14</td>
</tr>
<tr>
<td>M.Enm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Changes to the curriculum or course offerings:

All undergraduate modules have now been aligned across our three campuses. A new honours programme in Geography is now being offered on the Vanderbijlpark Campus.

Link to departmental webpage:

http://natural-sciences.nwu.ac.za/geography-and-environmental-management
**Name of department:**
Geography and Environmental Studies

**Head of department:**
- Dr Danie du Plessis

**Information about the Geographers and their area of specialisation in the department:**
- Prof Helen de Klerk; Associate professor GIS, spatial analysis, biogeography, species modelling, fire ecology hdeklerk@sun.ac.za
- Mr Jan de Waal; Lecturer Climate change, flooding risk assessment, urban risk research janniedw@sun.ac.za
- Prof Ronnie Donaldson; Professor - Urban social geography and tourism studies rdonaldson@sun.ac.za
- Dr Danie du Plessis; CRUISE: Urban & regional planner/ Senior lecturer- Urban planning systems, urban transformation, spatial analysis and modelling of cities and urban systems ddp@sun.ac.za

- Ms Jessica Eichhoff; CGA: GIS operator & social media coordinator- Cartography, digital elevation modelling
- Mr Herman Geyer; CRUISE: Town & regional planner/ Lecturer- Complexity theory, urban systems, economic geography hsgeyerjr@sun.ac.za
- Dr Suzanne Grenfell; Lecturer- River and wetland geomorphology, wetland restoration and management, sediment transport in rivers sgrenfell@sun.ac.za
- Dr Anele Horn; CRUISE: Town and regional planner/ Lecturer- Urban & regional planning, development frameworks, urban growth management / monitoring anelehorn@sun.ac.za
- Dr Jaco Kemp; Senior lecturer - Earth observation, synthetic aperture radar, photogrammetry jkemp@sun.ac.za
- Mr Kyle Loggenberg; Lecturer- GIS, earth observation, hyperspectral remote sensing, precision viticulture, crop water stress detection, proximal remote sensing (i.e. using Unmanned Aerial Systems (UAS) and terrestrial platforms) kyleloggenberg@sun.ac.za
Geographers continued:

- Dr Eric Mashimbye Lecturer- Remote sensing, geoinformatics, agronomy eriem@sun.za

- Dr Zahn Münch; Lecturer- GIS, spatial decision making zmunch@sun.ac.za

- Mr Theo Pauw; CGA: Technical officer, GIS & EO analyst- Remote Sensing: GEOBIA, classification, automation, radar, photogrammetry, pre-processing. GIS: Web-based GIS, cartography theopauw@sun.ac.za

- Mr Atman Prins; CGA: GIS & EO analyst- Machine learning classification, LiDAR data/ point clouds, programming and scripting, very high resolution drone imagery analysis atman@sun.ac.za

- Dr Tara Southey; CGA: Technical officer, GIS & EO analyst- Climate & grapevine modelling in the context of climate change for adaption and mitigation, water resource management, machine learning classification, multi-temporal earth observation techniques tara@sun.ac.za

- Dr Manfred Spocter; Senior lecturer- Small-town geographies, urban environmental issues, geographies of security, urban social geographies mspocter@sun.ac.za

- Mr Garth Stephenson; CGA: General manager, GIS & EO analyst- Mapping irrigated areas from earth observation imagery, geographic object-based image analysis, automated land cover / use classification, expert-system, ruleset classification. garth@sun.ac.za

- Prof Adriaan van Niekerk; Professor / Director of the CGA- GIT, spatial decision support systems avn@sun.ac.za

- Mr Divan Vermeulen; CGA: GIS & EO analyst- Object-orientated image classification vermeulend@sun.ac.za

- Prof Gustav Visser; Professor- Urban geography, tourism geography, sexuality and South African institutions and geography in higher education gvisser@sun.ac.za

- Dr Samantha Williams; Lecturer- Natural resources, livelihoods and governance samanthawilliams@sun.ac.za

- Ms Lodene Willemse; CRUISE: Lecturer- Urban and human geographies lodene@sun.ac.za
Exciting departmental news.

The year 2020 marked the Department’s centenary. While celebrations were stymied by the pandemic, there were publications to mark the centenary year. Five papers were published in a special issue of the *South African Geographical Journal* (volume 102, issue 3) entitled ‘Reflecting on a Century of Geography at Stellenbosch University’. In addition, two book publications also celebrated the centennial year.

These were:


The centenary year saw Danie du Plessis appointed as Departmental Chair and the staff complement was strengthened with the appointments of Suzanne Grenfell, a physical geographer, and Kyle Loggenberg, a GIT specialist. In addition, Suzanne Grenfell and Zahn Münch were both awarded a NRF C rating. Ronnie Donaldson was one of the recipients of the university’s 2020 Research Output Award from the Vice-Rector: Research, Innovation and Postgraduate Studies.

Adriaan van Niekerk was promoted to Professor and Herman Geyer was elected to the steering committee of the IGU Urban Commission. Ronnie Donaldson was fortunate to travel to Brazil just before global lockdown to teach at the annual summer school of the Faculdade de Filosofia, Letras e Ciências Humanas at the University of São Paulo. He presented a series of lectures on urban challenges in South Africa.

Ronnie Donaldson with students at the University of São Paulo
Third-year student, Karen Roets, graduated in December 2020 with a BSc Geoinformatics cum laude. She was awarded the national CONSAS prize for this achievement. The CONSAS Foundation awards a cash prize to the best student in Geomatics at universities offering a Geomatics programme recognised by the South African Geomatics Council. Karen is now enrolled in the department’s BSc Honours Geoinformatics programme.

A group of 30 geography students from the Cardiff University, Wales, were hosted by the department for a week in March 2020. Gustav Visser and Ronnie Donaldson escorted them on fieldtrips to Cape Town inner city and Khayelitsha, respectively. They concluded the week’s visit with a braai with some of our geography students.

Cardiff University students in Khayelitsha

Karen Roets, winner of the CONSAS prize
Departmental news continued:

The year also saw the passing of Piet Eloff (retired lecturer) on 30 December who served the Department from 1974 to 2012. Piet Eloff was a panellist on the SABC’s Afrikaans radio station Radio Sonder Grense, on Sundays from the 1990s, explaining geographic phenomena. He inspired thousands of undergraduate students to engender a love for Geography with his riveting lectures and received the Rector’s Award for Teaching Excellence in 2004.

2020/2021 List of publications:


Publications continued:


Publications continued:


Publications continued:


**Publications continued:**


**Chapters in Books**


Publications continued:


Publications continued:


Research Reports

MSc and PhD graduations and supervisors:

MSc

Gabrielle Denner; Supervisor: Dr Jaco Kemp
Joseph Mazango; Supervisor: Dr Zahn Münch

Master’s in Urban and Regional Planning

Carmen Adams; Supervisor: Dr Anele Horn
Quinton Balie; Supervisor: Dr Anele Horn
Moestaqeeb Esau; Supervisor: Ms Lodene Willemse

Richard McKnight; Supervisor: Mr Herman Geyer
Reinhardt Pienaar; Supervisor: Mr Herman Geyer
Sabelo Simelane; Supervisor: Prof Manie Geyer
Amber Willemse; Supervisor: Dr Anele Horn

MPhil (Urban and Regional Science)

Raimo Fernandez; Supervisor: Dr Danie du Plessis
Evashnie Govender; Supervisor: Mr Herman Geyer
Kriss Govinden; Supervisor: Mr Herman Geyer
Athi Gxumisa; Supervisor: Dr Anele Horn
Chantel Hauptfleisch; Supervisor: Dr Danie du Plessis
Rodney Khumalo; Supervisor: Prof Manie Geyer
Shonisani Maranda; Supervisor: Prof Manie Geyer
Fikile Matsimbi; Supervisor: Dr Anele Horn
Neo Nghenavo; Supervisor: Prof Manie Geyer
Mathapelo Phantsang; Supervisor: Ms Lodene Willemse
Freddie September; Supervisor: Prof Manie Geyer

PhD

MSc and PhD graduations and supervisors continued:

Dominique Ter Huurne; Supervisor: Dr Danie du Plessis

PhD

Richman Gambe; Supervisor: Dr Anele Horn

Nitesh Poona; Supervisor: Prof Adriaan van Niekerk

Lauren Williams; Supervisor: Dr Melanie Luck-Vogel and Dr Robyn Pharoah

Changes to the curriculum or course offerings:

New third-year module named Environmental Processes and Hazards offered in 2020.

Link to departmental webpage:

https://www0.sun.ac.za/geography/
Name of department: Geography and Environmental Studies & Tourism

Head of department:

- Dr Mark Boekstein

Information about the Geographers and their area of specialisation in the department:

- Dr Mark Boekstein, Senior Lecturer and Head of Department- Mark’s main interest in both teaching and research is tourism, particularly tourism’s potential to contribute to economic development. While his teaching focuses on the planning, development, and marketing of sustainable, community-based tourism, his research interests include health and wellness tourism and the use of thermal springs for healing purposes, and English language learning as a tourist attraction. He also has an interest in developments around Cape Town as a gateway for tourism to Antarctica and the sub-Antarctic islands.

- Prof Daniel Tevera
  Daniel’s research is located at the interface of Human Geography and Development Studies with Southern Africa as the geographical focus. His early work focused on livelihoods and spatial strategies in the informal economy, migration geographies, and environmental security. However, it is the domain of food and the city that his recent work focuses on. He has served as an expert participant in policy debates around Temporary Labour Migration Schemes in small countries (Commonwealth), African migration (United Nations Economic Commission for Africa), and Migration Policy Framework for Africa (African Union). For three successive years, Daniel organised field trips for third-year and honours students to the hotly contested Philippi Horticultural Area (PHA).

Ms Mandy Carolissen, Lecturer
Mandy is a physical geographer with teaching and research interests in integrated water resource management, catchment hydrology, ecosystem services, and the dynamic physical processes that shape our landscapes. Her current research focuses on understanding the spatial and temporal availability of water and storage of a depression wetland (using in-situ hydrological data and remote sensing), and to relate these to ecosystem services.
Geographers continued:

- **Associate Prof Shirley Brooks**
  Shirley is a human geographer focusing on human-environment relationships, in particular postcolonial landscapes of conservation and land in Southern Africa. She teaches in the fields of nature-society relations and the political geography of land. In addition to working within a political ecology framework, she is interested in the quintessentially geographical theme of landscape meanings and contestations. Together with her students, she has explored Human and Non-human Geographies, focusing on Wilderness and Wildness as well as Animal Geographies.

- **Associate Prof Bradley Rink**
  Bradley is a human geographer, focusing his research and teaching on mobilities, urban place-making, identities, and tourism. His research foregrounds mundane and subaltern mobilities to make them visible in the everyday movements and circulations of African cities. Through his research, teaching and community engagement, he aims to better understand mobilities and the relationships they articulate between urban dwellers and the cities in which they live.

- **Dr Mbulisi Sibanda**, Senior Lecturer
  Mbulisi joined the Department in January 2021 as Senior Lecturer specialising in GIScience and Earth Observation Data Applications. He completed his PhD on Optical Remote Sensing of Grassland Biomass in Data Scarce Environments at the University of KwaZulu-Natal (Pietermaritzburg) in 2016. He is an NRF-rated researcher with expertise in GIScience and Geospatial Data Applications in monitoring plant water use and productivity analysis, resource modelling as well as land-use change.

- **Mr Michael Dyssel**, Lecturer
  Michael’s research and teaching interests include conservation and environmental management, urban-ecological challenges, the impacts of tourism, and mapwork. As a way of bridging (sub)disciplinary boundaries in Geography, transdisciplinary and multi-methods research and teaching approaches underpin his work.

- **Mr David Frenchman**, Senior Officer
  David is the IT administrator in the Department and part of the Academic Support Staff in the Faculty. His work relates primarily to managing both undergraduate and postgraduate computer laboratories. However, he also offers GIS support to staff and students. He is solely responsible for the installation and maintenance of GIS software in the laboratories. GIS support involves compiling and issuing datasets for research and publications.

  Email: dfrenchman@uwc.ac.za
Geographers continued:

• **Mr Logan Plaatjies**, Administrative Officer
  Logan was appointed as Administrator in the Department in 2020, having worked in other departments at UWC since 2015. Previously, he worked at UNISA and in the private sector at Shell Oil, but it is the academic environment that he has become attached to. His hobbies include reading and having endless conversations about the human being, following on his interest in Psychology.

• **Dr Erin Torkelson**, Postdoctoral Fellow
  Erin is a human geographer interested in the collision between normative assumptions about cash transfers as public goods and the lived experience of cash transfers as private debts in the Global South. Her work sits at the intersection of political economy, development studies, critical race theory, feminist kinship studies, and postcolonial science and technology studies. Her current project, Bantustan Banking, explores how a preeminent, state-sponsored cash transfer programme has become a means of racialised and gendered dispossession in post-apartheid South Africa. She examines the everyday practices by which poor, black South African women navigate their entitlements to social assistance against the pressures of expropriation built into the payment system.

Exciting departmental news:

• **Prof Jonathan Crush**, Extraordinary Professor
  More details on Jonathan and his research can be found here: [https://www.balsillieschool.ca/jonathan-crush/](https://www.balsillieschool.ca/jonathan-crush/)

Bradley Rink, Associate Professor in the Department of Geography, Environment Studies and Tourism, was awarded a 2021 Royal Geographical Society Wiley Digital Archives Research Fellowship.

Dr Erin Torkelson was awarded a 2020 Hunt Postdoctoral Fellowship from the Wenner Gren anthropology foundation.
2020/2021 List of publications:


Publications continued:


MA and PhD graduations and supervisors:

Paulsen, Adrian. Mapping Urban Food Security in Delft: A Bottom Up Perspective, University of the Western Cape, MA, Geography & Environmental Studies (Supervisor: Bradley Rink)

2020 student numbers

Undergraduate: 1959 students
Honours: 18 students
Masters: 5 students (GES802 enrolment to be added)

PhD: 2 students (GES902 enrolment to be added)

Link to departmental webpage

https://www.uwc.ac.za/study/all-areas-of-study/departments/department-of-geography-environmental-studies-and-tourism/overview
UNIVERSITY OF THE FREE STATE

**Name of department:**
- Geography

**Head of department:**
- Dr Jay le Roux (acting HOD for 2020)

**Information about the Geographers and their area of specialisation in the department:**

**Bloemfontein Campus**
- Prof SA Adelabu; Professor GIS, Remote Sensing
- Mrs M Dunn; Lecturer Urban Geography
- Ms E Kruger Lecturer Environmental Management
- Dr JJ le Roux; Senior Lecturer GIS, Physical Geography
- Mrs TC Mehlomakhulu Lecturer Rural Development
- Dr EM Rudolph; Lecturer Physical Geography
- Mrs MH Stander; Lecturer Environmental Studies
- Dr AJ van der Walt; Lecturer GIS, Climate Studies

**Qwaqwa Campus**
- Dr MM Hansen; Lecturer Sustainability Science, Tourism
- Dr PS Mahasa; Lecturer Physical Geography
- Prof G Mukwada; Professor Environmental Sustainability
- Dr T Okello; Senior Lecturer Tourism
- Dr MKP Pewa Lecturer Human Geography
- Ms NM Sekhele; Lecturer Physical Geography
- Dr S Xulu; Lecturer Remote Sensing, GIS
Exciting departmental news:

Prof Geoffrey Mukwada received a C2 NRF rating and has been promoted to the level of full professor. He was also admitted into the Responsible Research and Innovation Networking Globally (RRING) Project, which is coordinated by the United Nations Scientific and Cultural Organization (UNESCO). The main aim of this project is to create the linked up global world which promotes mutual learning and collaboration in Responsible Research and Innovation in scientific research.

Prof Samuel Adelabu was promoted to Associate Professor. He was also appointed as the Chair of the Investigating Committee of South African Council for Natural Scientific Profession.

Mr Adriaan van der Walt obtained his Ph.D. during December 2020 at the University of Witwatersrand, entitled: “An analysis of extreme temperature events in South Africa: 1950-2015”. Dr van der Walt presented at the Alliance for Collaboration on Climate and Earth System Science (ACCESS), Habitat Planet Workshop (HPW) Research Conference, 8-10 December 2020 where he was one of three winners for the best Ph.D. research paper presentations, entitled: “Statistical classification of South African seasonal divisions on the basis of daily temperature data.

Ms Elizabeth Rudolph obtained her Ph.D. on 17 December 2020, at the University of Fort Hare, entitled: “Towards a reconstruction of Marion Island’s glacial history”. Prof Adelabu and Dr Adriaan van der Walt has been elected as board members of the Society of South African Geographers (SSAG). Dr van der Walt was elected as treasurer of the Society of South African Geographers’ (SSAG) Student and Young Professionals Group.

Dr. Sifiso Xulu and Dr. Adriaan van der Walt received the Society of the South African Geographers (SSAG) Centenary Award.


Publications continued:


Publications continued:


MSc and PhD graduations and supervisors:

MSc

Semela, M. Environmental Geography

Nxumalo, P. Environmental Geography

Setshedi, K. Plant Sciences

PhD

Adagbasa, E. Modelling Ecological Vulnerability to Fore in A Mountainous and Protected Area: A Remote Sensing and GIS Approach. - Promoter: Prof Adelabu

Onaolapo, T. Spatial Analysis of Housing Patterns in a Mountainous Area. - Promoter: Dr Okello/Prof Adelabu

Pretorius, A. A sustainable rural transport framework: The case of Maluti-a-Phofung Local Municipality. - Promotor: Prof Mukwada

Three PhD students, on the QwaQwa campus, completed in 2020 (two of which are waiting to graduate and the third one is being examined).

2020 student numbers

<table>
<thead>
<tr>
<th></th>
<th>1st Semester</th>
<th>2nd Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Year</td>
<td>210</td>
<td>168</td>
</tr>
<tr>
<td>Second Year</td>
<td>217</td>
<td>221</td>
</tr>
<tr>
<td>Third Year</td>
<td>171</td>
<td>172</td>
</tr>
<tr>
<td>Honours</td>
<td>21</td>
<td></td>
</tr>
<tr>
<td>Masters</td>
<td>23</td>
<td></td>
</tr>
<tr>
<td>PhD</td>
<td>24</td>
<td></td>
</tr>
</tbody>
</table>

Link to departmental webpage

https://www.ufs.ac.za/natagri/departments-and-divisions/geography-home
Name of department:
Geography, Archaeology and Environmental Studies

Head of department:
• Professor Paida Mhangara

Information about the Geographers and their area of spacialisation in the department:

• Sarita Pillay Gonzalez
Urban geography including the relationship between the state and real estate and how this shapes cities urban regeneration and displacement, property development and real estate, and the political economy of post-apartheid and Global South cities

• Dr Cletah Shoko
Remote sensing, GIS, Geospatial modelling, Surface hydrology, Spatial ecology

• Dr Raeesa Moolla
Atmospheric Science, Air Pollution.

Dr Melanie Samson
Political ecology; feminist geography and political ecology; political economy and economic geography; waste and value; ‘informal economy’; organising; participatory policy-making; reclaimer (waste picker) integration.

Dr Alex Wafer
Urban and human geography

Prof Elhadi Adam
Use of remote sensing techniques and machine learning algorithms in monitoring vegetation

Prof Jennifer Fitchett
Biometeorology: climatology, tourism and climate change, phenology, climate and health, and palaeoclimatology

Dr Mary Evans
Optically Stimulated Luminescence Dating, palaeoenvironmental reconstructions of Quaternary landscapes, river dynamics, climatology and atmospheric processes, science education.
Geographers continued:

Dr Melanie Samson
Political ecology; feminist geography and political ecology; political economy and economic geography; waste and value; ‘informal economy’; organising; participatory policy-making; reclaimer (waste picker) integration.

Dr Alex Wafer
Urban and human geography

Prof Elhadi Adam
Use of remote sensing techniques and machine learning algorithms in monitoring vegetation

Prof Jennifer Fitchett
Biometeorology: climatology, tourism and climate change, phenology, climate and health, and palaeoclimatology

Prof Mulala Simatele
Environmental management, governance and sustainability, environmental impacts assessments and environmental monitoring systems, coastal and marine resource management and sustainability, climate change adaptation.

Prof Stefan Grab
Historical climatology, geomorphology, climate and environmental change.

Prof Craig Sheridan
Water research: provision and treatment.

Prof Francois Engelbrecht
Climatology, climate modelling and climate futures

Dr Annika Herbert
Postdoctoral fellow – palaeoclimate modelling

Dr Annika Herbert
Postdoctoral fellow – palaeoclimate modelling

Prof Jasper Knight
Geoscience: spatial and temporal variability in landscape system responses to climate and environmental changes during the late Pleistocene and Holocene, looking at sediments and geomorphology.

Yingisani Chabalala
Senior GIS and Remote Sensing Technician

Wendy Phillips
Cartographer

Natanya Alexander
Senior Administrative Officer

Kerayamang Mafora
Postgraduate Administrator
Dr Raeesa Moolla was chosen to serve on the Scientific Steering Committee of the Tropospheric Ozone Assessment Report (TOAR), organised by the World Meteorological Organization.

DEFF published the “Waste Picker Integration Guideline for South Africa” in 2020. Dr Melanie Samson facilitated a three year participatory multi-stakeholder process to develop the Guideline and is the author of the Guideline. She also collaborated with the African Reclaimers Organisation and Unilever to develop and pilot a “Recycling with Reclaimers” project in which reclaimers/waste pickers and residents are working together to create a recycling collection service that is provided by reclaimers and pays them for the service they provide. This is a direct counter to Pikitup and the City contracting private companies which eliminates reclaimers’ jobs and incomes. The pilot is currently being expanded to new areas with additional support from Coca-Cola, Coca-Cola Bottling, and PETCO.

Prof Paida Mhangara was appointed as Head of School from 1 November 2019. During 2020, we appointed a new Human Geography Associate Lecturer, Sarita Pillay Gonzalez, who started with the school at the beginning of 2021.

In 2020, Prof Jennifer Fitchett was elected as the President-Elect of the Society of South African Geographers. She was also elected to the South African Young Academy of Sciences, and appointed as editor of their blog, and elected as the African Councillor of the International Society of Biometeorology.

Prof Jasper Knight has been appointed to the national Community of Practice on Research Ethics and Integrity, managed by DSI and SARIMA.
2020/2021 List of publications.


Publications continued:


Publications continued:


Publications continued:


Publications continued:


**Publications continued:**


Publications continued:


Publications continued:


**Publications continued:**


Publications continued:


**MSc and PhD graduations and supervisors:**

Adriaan van der Walt, PhD Geography, supervisors: Prof J Fitchett, Prof C Curtis

Linda Etale, PhD Geography, supervisor: Prof M Simatele

Lombuso Shabalala, PhD Geography, supervisor: Prof M Simatele

Nkulu Banze, PhD Geography, supervisor: Prof M Simatele

Olaotse Thabang, PhD Geography, supervisors: Dr S Merlo and Prof E Adam

Steve Mathesa, PhD Geography, supervisor: Prof M Simatele

Steven Matome, PhD Geography, supervisor: Prof M Simatele

Andronica Sidiki, MSc Geography (Research), supervisor: Prof M Simatele
MSc and PhD graduations and supervisors continued:

Anela Fixi, MSc Geography (Research), supervisor: Prof M Simatele

Christopher Humphries, MSc Geography (Research), supervisor: Dr M Samson

Dineo Mokgehle: MSc in GIS and Remote sensing (CWRR), Supervisors: Dr Cletah Shoko and Prof Elhadi Adam.

Fazlin McPherson, MSc Geography (Research), supervisors: Prof J Fitchett, Dr C Namono

Humbelani Matsikha, MSc Geography (Research), supervisor: Prof M Simatele

Jesse Spratt, MSc Geography (Research), supervisors: Prof J Fitchett, Prof C Curtis

Jessica Auchterlonie, MSc (Eng), supervisor: Prof C Sheridan

Kirsten Noome, MSc Geography (Research), supervisor: Prof J Fitchett

Konanani Rambuda, MSc Environmental Science (CWRR), supervisor: Prof J Knight

Lara Aylward, MSc Chemical Engineering, supervisor: Prof C Sheridan, U Kappelmeyer

Makhosazana Dubazana, MSc Geography (Research), supervisor: Dr R Moolla

Nicholas Burman, PhD Chemical Engineering, supervisor: Prof C Sheridan

Pascal Snyman, MSc Geography (Research), supervisor: Prof J Fitchett

Samantha Pearson, MSc (Eng), supervisor: Prof C Sheridan

Sinoxolo Magaya, MSc Geography (Research, with distinction), supervisor: Prof J Fitchett

Siyasanga Gxaba, MSc Geography (Research), supervisor: Prof M Simatele

Siyaxola Gadu, MSc Geography (Research), supervisor: Prof M Simatele

Webster Magowo, PhD Chemical Engineering, supervisor: Prof C Sheridan

Zandile Ntuli, MSc Geography (Research), supervisor: Dr M Samson
**2020 student numbers**

1st year: 117 (with additional 38 Urban and Regional Planning students)

2nd year: 86

3rd year: 61

Honours: 38

Masters – 32 Coursework and Research Report

Masters – Research: 37

PhD: 61

**Changes to their curriculum or course offerings:**

From 2021 the School of Geography, Archaeology and Environmental Studies is introducing a major in environmental studies in the second and third year of the BSc and BA undergraduate programmes. This joins our new undergraduate major in Geospatial science which was introduced in 2019, and our existing double major in Geography. Within the school we also offer a major in Archaeology.
**Name of department:**

- Geography

**Head of department:**

- Dr Shandu Nenwiini

**Information about the Geographers and their area of specialisation in the department:**

Prof Gunter, A; Professor Urban Geography
Distance Education. D.Phil
[gunteaw@unisa.ac.za](mailto:gunteaw@unisa.ac.za)

Prof Horn, AC; Professor Urban and Social Geography. D.Phil [hornac@unisa.ac.za](mailto:hornac@unisa.ac.za)

Prof Mini, SE
(retired 2020); Professor Urban Geography. PhD [minise@unisa.ac.za](mailto:minise@unisa.ac.za)

Prof Nicolau, MD; Professor Citizen driven socio-economic change, poverty and quality of life, migration studies. PhD [nicolmd@unisa.ac.za](mailto:nicolmd@unisa.ac.za)

Prof Hedding, DW; Associate Professor Geomorphology. PhD [heddidw@unisa.ac.za](mailto:heddidw@unisa.ac.za)

Prof Pretorius, RW; Associate Professor Education for Sustainability; ODeL applications in Geography & Environmental Studies; Scholarship of teaching and learning; Sustainable Development in HE. PhD [pretorw@unisa.ac.za](mailto:pretorw@unisa.ac.za)

Prof Schmitz, P; Associate Professor Spatial analysis GIS. D.Phil [schmitp@unisa.ac.za](mailto:schmitp@unisa.ac.za)

Dr De Jager, AE; Senior Lecturer Teaching and learning in Geography; Urban geography, services provision, Tourism, quality of life. PhD [djageae@unisa.ac.za](mailto:djageae@unisa.ac.za)

Dr Dirsuweit, T Senior Lecturer Urban Geography; Geographies of Gender; Food Studies; Political Geography. PhD [dirsutc@unisa.ac.za](mailto:dirsutc@unisa.ac.za)

Dr Du Plessis, A; Senior Lecturer Hydro Geography. PhD [duplea@unisa.ac.za](mailto:duplea@unisa.ac.za)

Dr Nenwiini, SC (Acting Chair of Department); Senior Lecturer Climatology. PhD [nenwisc@unisa.ac.za](mailto:nenwisc@unisa.ac.za)
Geographers continued:

Mr Vlok, AC; Senior Lecturer Remote sensing / GIS / Geographical Analysis. MA vlokac@unisa.ac.za

Mr Anderson, R; Lecturer Geomorphology. MSc anderrl@unisa.ac.za

Mrs Carow, S; Lecturer GIS. MSc sanetpc@unisa.ac.za

Mrs Coetzee, R; Lecturer Environmental Geography; ODeL within the context of geography and e-learning. MA coetzr@unisa.ac.za

Mr Greyling, C; Lecturer Geomorphology. MSc egreyla1@unisa.ac.za

Mr Khanye, B; Lecturer Settlement Geography. MSc khanyb@unisa.ac.za

Mrs Khotoo, A; Lecturer Human Geography. MA khotoa@unisa.ac.za

Ms Lombard, A; Lecturer Environmental and Tourism Geography. MA Lombael1@unisa.ac.za

Mr Mafanya, M; Lecturer Geographic Information Systems Remote Sensing Geospatial analysis. MSc mafanm@unisa.ac.za

Mrs Mashau, SJ; Lecturer Rural Geography, Gender equity studies. MSc todansj@unisa.ac.za

Ms Mulibana, L; Lecturer Urban Geography. MA mulibl@unisa.ac.za

Ms Pienaar, R; Lecturer Geography of education. BSc (Hon) pienar@unisa.ac.za

Mr Tshabalala, S; Lecturer Transport geography. MSc tshabas1@unisa.ac.za

Mr Ramasunga, P; Junior Lecturer Land and agrarian reform, livelihoods, renewable energy, human settlement and land use. BES (Hon) ramasp@unisa.ac.za

Mr Schoeman, RC; Junior Lecturer Urban Geography. BA (Hon) eschoerc@unisa.ac.za

Prof Kotze, NJ; Associate Professor Urban Geography. PhD kotzenj@unisa.ac.za

Ms de Vries, L; Lecturer Urban Geography Human Geography Parks and Public Space. MSc dvriel@unisa.ac.za

Mr Manuel, K; Lecturer Urban Geography, Migration Studies. MSc manuek@unisa.ac.za

Mr Mbhamali, TW; Lecturer Environmental Sciences Atmospheric Sciences Hydrology Spatio-temporal Analysis. MSc mbhamtw@unisa.ac.za

Mr Munyai, RB; Lecturer Risk hazard and vulnerability Weather and Climate variability Population dynamics and demography. MSc munyarb@unisa.ac.za
Exciting departmental news

Despite the restrictions and lockdown of 2020, a number of activities and awards took place in the Department of Geography. Prof David Hedding was awarded the Vice Chancellor’s Award for Excellence in Research. Prof Rudi Pretorius was appointed as one of the deputy editors of the newly launched Springer Nature journal ‘Discover Sustainability’. The journal is currently co-editing a topical collection of papers titled “Enhancing sustainability in the Global South: Insights, perspectives and approaches”. The call for papers can be accessed at: https://link.springer.com/collections/bhhedifgbe.

Prof Hedding, along with Prof Ashley Gunter have been appointed the Editors of the South African Geographical Journal. Prof Gunter and Dr Massey (Huddersfield University, UK) produced an edited volume published with Springer entitled Urban Geography in South Africa: Perspective and Theory. Prof Gunter was asked to serve on the Steering Committee of the IGU Local Development Committee.
**departmental news continued:**

In March, the Department hosted a symposium on “Accelerating the Implementation of the Sustainable Development Goals in Africa” and alongside it, a GIS workshop was held. Prof Rudi Pretorius co-chaired this symposium with Prof Walter Leal Filho from the Hamburg University of Applied Sciences (Germany). Prof Rudi Pretorius and Melanie Nicolau are guest editors of a special edition of the International Journal of Sustainability in Higher Education with theme related to this symposium.

After a career of service to the discipline of Geography in South Africa, Prof Simphiwe Mini retired at the end of 2020. Prof Mini was appointed at UNISA in 2010 as full professor and has contributed to academia and academic life of the Department. He served as Chair of the Department from 2018 to 2019 and was acting Deputy Dean of the College of Agriculture and Environmental Science in 2020.

**Funding**

Prof Hedding was awarded a NSFC / NRF Grant of R1 500 000 million to explore landscape evolution of the basaltic regions.

Prof Hedding was awarded as co-investigator a NSFC NRF SANAP Grant of R2 000 000 to conduct research on Marine Marion Island.

Prof Gunter received a Arts and Humanities Research Council (UK) Grant to Investigate Decolonising Peace Education in Africa to the Value of R4 000 000.

Prof Gunter was part of a team awarded a European Association for Research on Learning and Instruction (EARLI) grant of €20 000.

**Promotions**

Prof Ashley Gunter was promoted to Professor

Dr Anna De Jager received a PhD from UNISA and was promoted to Senior Lecturer.

Mr Butho Khanye received a MSc from UNISA and was promoted to Lecturer.
2020/2021 List of publications


Publications continued


Publications continued


**MSc and PhD graduations and supervisors:**

**MSc**

- T. Ralarala  Supervisor  Prof M Nicolau
- M E. Keeley  Supervisor  Prof A C Horn
- B. Khanye  Supervisor  Prof A Gunter
- C. Steyn  Supervisor  Prof A Gunter
- N. Nthungeni  Supervisor  Mr R Anderson and Prof D Hedding
- T. Kgote  Supervisor  Prof D Hedding
- S. Nkubungu  Supervisor  Prof Pretorius

**PhD**

- J M. Letsoalo  Supervisor  Prof M Nicolau
- A E. de Jager  Supervisor  Prof M Nicolau and Dr J Olivier
- G D. Desta  Supervisor  Prof M Nicolau and Prof M Abshare
- E T. Dando  Supervisor  Prof A Gunter
- G M. Geremew  Supervisor  Prof S Mini

---

**Pretorius, R.W. and Nicolau, M.D., 2020,**


2020 Student numbers:

First Year  7728
Second Year  2705
Third Year  221
Honours  129
MSc  26
PhD  34

Link to departmental webpage

https://www.unisa.ac.za/sites/corporate/default/Colleges/Agriculture-&-Environmental-Sciences/Schools,-departments,-centres-&-units/School-of-Ecological-and-Human-Sustainability/Department-of-Geography
The department will host the International Geographical Union’s Commission on African Studies’ 2022 conference, titled *Critical Dialogues for a Sustainable African Future*.

**Name of department:** Geosciences

**Head of department:**
- Anton de Wit

Information about the Geographers and their area of specialisation in the department:

- Dr Anton de Wit (Environmental Management)
- Dr Leizel Williams-Bruinders (Human Geography)
- Dr Wilma Britz (GIS / Cartography)
- Prof Vincent Kakembo (Physical Geography)

**2020/2021 List of publications**

Publications continued:


MSc and PhD graduations and supervisors


MSc and PhD graduations and supervisors continued:


2020 Student numbers:

First Year: 220
Second Year: 78
Third Year: 55
Hons: 14
Masters: 8
Doctoral: 6

Link to departmental webpage

https://geosci.mandela.ac.za/
UNIVERSITY OF VENDA

Name of department:

• Geography and Geo-Information Sciences

Head of department:

• Dr. NS Nethengwe (Actign Dean- SES)

Information about the Geographers and their area of specialisation in the department:

• Dr. NS Nethengwe; Remote Sensing & GIS; Disaster management; Gully Extraction, soil erosion, Climate change adaptation, Green economy. nthaduleni.nethengwe@univen.ac.za +27 (0) 15 962 8593

• Prof Odhiambo BDO; Associate Professor - Geomorphology, Geology, Remote Sensing & GIS beneah.odhiambo@univen.ac.za 015 962 8587

• Dr Nelwamondo, T; Senior Lecturer- Eco-Tourism; Settlement Development and Urbanization tshililo.nelwamondo@univen.ac.za 015 962 8582

• Dr NV Mudau; Senior Lecturer - Rural Geography virginia.mudau@univen.ac.za 015 962 8591

• Dr MJ Mokgoebo; Lecturer- Biogeography matjutla.mokgoebo@univen.ac.za 015 962 8581

• Mr Kori, E; Lecturer- Geomorphology edmore.kori@univen.ac.za 015 962 8565

• Ms KH Netshisaulu; Lecturer- Population and Demography khathu.mathivha@univen.ac.za 015 962 8590

• Mr F. Dondofema; Chief Technician GIS and Remote Sensing, Ecology farai.dondofema@univen.ac.za 015 962 8044

• Mr. AP Nekhavhambe; Part-time Lectuer Human/Environmental Geography Ailwei.nekhavhambe@univen.ac.za
Exciting departmental news

South Africa / Flanders Climate Adaptation Research and Training Partnership (SAF-ADAPT)

Dr. NS Nethengwe, is a Univen Research Lead of the SAF-ADAPT project on Climate Change Adaptation and Development and was awarded R771,535.00. This is the first installment of a 4.5-year collaborative project between three South African universities (University of Cape Town, University of Fort Hare, and University of Venda); KLIMOS, a consortium of Belgian universities and research groups; and the South African Adaptation Network. It aims to fill critical adaptation research gaps and enhance the capacity of South African universities and individuals, especially early career researchers, to generate and communicate research evidence for impact, and build the capacity of those tasked with climate adaptation to deliver on their mandates.

The SAF-ADAPT project (Univen) has also appointed 1 Postdoctoral Fellow, awarded 2 PhD and 2 Master’s Scholarships as well as sending through the RESIDER wing, Mr T. Manyanya to do PhD in KU Leuven, Belgium.

SAF-ADAPT Summer School

Dr. NS Nethengwe is a Research Lead of the SAF-ADAPT project (Univen) on Climate Change Adaptation and Development which hosted a very successful Virtual Summer School for Postdoctoral fellow as well as Master and PhD students enrolled at UNIVEN, UCT and UFH. Here is the link to access the SAF-ADAPT Summer School Programme 2021: SAF-ADAPT Summer School 2021 (mailchi.mp).

The SAF-ADAPT project (Univen) has: appointed 1 Postdoctoral Fellow; awarded 2 PhD and 2 Master’s Scholarships. allocated first instalment of R771,535.00 (2021)

USDP Summer School 2021

The Univen USDP scholars (4) under Climate Risk, Resilience and Sustainable development, Project (Univen led by Dr. NS Nethengwe) hosted a Virtual Summer School from (2-3 March) to 9-10 March 2021 in collaborations with three South African universities (University of Cape Town, University of Fort Hare, and University of Venda); KLIMOS, a consortium of Belgian universities and research groups; and the South African Adaptation Network.
Mr Mokgoebo’s PhD and Promotion of Dr Chikoore

Mr MJ Mokgoebo was awarded his PhD from UNISA in November 2020. We are proud of his achievement, and wish Dr Mokgoebo a long and fruitful academic discourse in the his field of specialization in Physical Geography.

Dr Hector Chikoore left the Department of Geography and GISc in the service of the University of Venda to join North-West University (Vaal Triangle Campus) on promotion to Associate Professor. During his tenuer in the Department of Geography & GIS, Prof Chikoore saw the inception and development of Meteorology and Climate Science in the department (and the School of Environmental Sciences). He graduated many honours and masters students.


publications continued:


MSc and PhD graduations and supervisors:

Dlamini, P; Assessing the influence of water level fluctuations on macroinvertebrate community assemblages in two small subtropical farm reservoirs. MEnvSc Supervisor- Dr. T. Dalu & Dr MJ Mokgoebo

Netshaulu, M; Development of a GIS Database Prototype for Effective Solid Waste management in Thohoyandou CBD and its environs, Limpopo Province. MEnvSc (with Distinction) Supervisor- Dr. NS Nethengwe & Dr. NV Mudau

Mosima Florina Mphidi; The Effectiveness of Biosphere Reserve as a tool for sustainable resource management in Vhembe District Municipality, Limpopo Province, South Africa. MEnvSc. Supervisor- Prof Odhiambo BDO & Dr MJ Mokgoebo

Mandaha Tshifhiwa; Impacts of Climate Change on Irrigation and Adaptation Strategies of Small Holder Farmers in Khumbe Irrigation Scheme, Limpopo, South Africa. MEnvSc. Supervisor-Prof BDO Odhiambo & Mr M.J Mokgoebo
MSc and PhD graduations and supervisors continued:

Mudau Thifhatelwi Jnr; The Use of Multi-Temporal MODIS Satellite Data to Map Veldfire Hazards in Limpopo Province, South Africa. M.Env.Sc. Supervisor- Prof BDO Odhiambo & Mr Dondofema, F

Phuluwa, TS; Climatology of tropospheric ozone over South Africa: variability and sources. MEnvSc. Supervisor- Dr.H. Chikoore & Dr. NS Nethengwe
Dr. NB Mbatha (UNIZULU)

Thavhanyedza, H; Vegetation change in response to climate extremes in Limpopo Province, South Africa. MEnvSc. Supervisor- Dr. NS Nethengwe & Dr. H. Chikoore

Chineka, J; Conservation Agriculture as an Adaptation Strategy to Drought in Chivi District, Zimbabwe. PhD (Geography) Supervisor- Dr. H. Chikoore & Dr. NS Nethengwe

Rumutsa, BN; Integrating Indigenous and Modern Scientific Knowledge in Community-Based Early Warning System Development for Climate Related Malaria Risk Reduction in Mopani District of South Africa. PhD (Geography) Supervisor- Dr. NS Nethengwe & Dr. H. Chikoore

Zongho, K; Assessing the Impacts of Climate Change and Adaptation Strategies on Smallholder Farming in the Vhembe District, South Africa. PhD (Geography). Supervisor- Dr. NS Nethengwe & Prof. S. Mpandeli Dr. H. Chikoore

2020 student numbers:

First year 380
Second year 385
Third year 158
Honours 0
Masters 16
Doctoral 2
Changes to the Curriculum or course offerings:

Confirmation of Additional CESMS for Accredited Programme
CHE informed DHET that new major fields of study, namely Geography and Cartography (CESM1405) and Geology and Earth Sciences/Geosciences (CESM1406) may be re-added to the existing Bachelor of Environmental Sciences Honours. This re-allows the offering of Bachelor of Environmental Sciences Honours with Geography specialisation and that of Hydrology and Water Resources.

Bachelor of Environmental Science in Disaster Risk
The long-awaited curriculum of Bachelor of Environmental Science in Disaster Risk Reduction, to be offered in the Department of Geography and GIsC has finally been approved by the DHET and is currently on offer starting the 2021 academic year. There is a bursary programme for this curriculum funded by the National Disaster Management Centre (NDMC).

Link to departmental webpage:
https://www.univen.ac.za/about/schools/school-of-environmental-sciences/geography-and-geo-information-sciences/
Name of department:

- Geography Environmental Management and Energy Studies

Head of department:

- Prof. Clare Kelso

Information about the Geographers and their area of specialisation in the department:

- Prof. Chris Curtis; Professor-Biogeochemistry & Aquatic Science 
cjcurtis@uj.ac.za 011 559 4745

- Prof. Rampedi I; Associate Professor-Environmental Management isaacr@uj.ac.za 011 559 2429

- Prof. Tesfamichael SG; Associate Professor-GIS & Remote Sensing sgtesfamichael@uj.ac.za 011 559 3927

- Prof. Hoogendoorn G; Associate Professor-Tourism Geography ghoogendoorn@uj.ac.za 011 559 4628

- Prof. Yessoufou K; Associate Professor-Environmental Management kowiyouy@uj.ac.za 011 559 2434

- Dr. Langerman K; Senior Lecturer-Energy Studies, Air Quality Management 
klangerman@uj.ac.za 011 559 2439

- Dr. Sinthumule I; Senior Lecturer-Transfontier Conservation, Environmental Conservation and Society Border Studies, Environmental Geography, Land Reform and Political Ecology isinthumule@uj.ac.za 011 559 3810

- Dr. Modley L; Senior Lecturer-Environmental Monitoring and Management lee-anmm@uj.ac.za 011 559 3928

- Dr. Kambule N; Lecturer- Energy Studies
nkambule@uj.ac.za 011 559 4423

- Mrs. Block EK; Lecturer- Human Geography & Environmental Education eblock@uj.ac.za 011 559 2173

- Ms. Greenberg D; Lecturer- Physical and Environmental Geography 
dgreenberg@uj.ac.za 011 559 4799
Geographers continued:

- Ms. Mugwena T; Lecturer-GIS & Remote Sensing themdom@uj.ac.za 011 559 3645
- Ms. Rabumbulu M; Lecturer-Geomorphology mrabumbulu@uj.ac.za 011 559 3302
- Mr. Mushawemhuka WJ; Lecturer-Tourism and Climate change GIS & Remote sensing williamjm@uj.ac.za 011 559 3889
- Ms. Stockigt L; Lecturer- Human Geography lstockigt@uj.ac.za 011 559 4452
- Mrs. Schoeman DC Lecturer; Waste and Environmental Management theas@uj.ac.za 011 559 3226

Exciting departmental news:

Buntu Fanteso, a Masters graduate of the Masters in Environmental Management from UJ received the Rhodes scholarship to complete his PhD at the University of Oxford

Bopaki Phogole (Environmental Management Masters student) was awarded Best Student Paper at the NACA (National Association for Clean Air) Conference held virtually from 16-20 November 2020.

Ms Patience Mamathaba won the best MSc Presentation Award at UJ Botany Annual Symposium 2020, supervised by Prof Kowiyou Yessoufou.

Dr Simangele Dlamini who completed his Phd in Geography in 2020, was awarded the best Junior Research Excellence Award of 2020 at the Human Science Research Council (HSRC). The award, which considers scholarship, specifically noted his peer-reviewed research outputs within a short period of time. Dr Dlamini was supervised by Prof Solomon Tesfamichael (GEMES) and Dr Tholang Mokhele (HSRC).
**Departmental news continued:**

UJ has been ranked 3rd in South Africa for the Geography subject in the 2020 Shangai Ranking’s Global Ranking of Academic Subjects.

Dr Kowiyou Yessoufou joined the Board of the South African Biodiversity Institute (SANBI) and he also gave an interview on JoburgToday TV on the State of Environment under Lockdown.

Dr Innocent Sinthumule is now on the Editorial Board of Dialogues in Human Geography effective from February 2020.

Dr Innocent Sinthumule invited Dr Abel Ramoelo from South African National Parks (SANParks) to present a departmental seminar on “Essential Biodiversity variables’ framework: Contribution of earth technologies for monitoring protected areas”, on 13 March 2020

**2020/2021 List of publications:**


Publications continued:


Publications continued:


**Publications continued:**

Ndidzulafhi Innocent Sinthumule, Mbuelo
Laura Mashau. Traditional ecological
knowledge and practices for forest conservation
in Thathe Vondo in Limpopo Province, South
Africa. Global Ecology and
Conservation, Volume 22, 2020, e00910, ISSN

Ndidzulafhi Innocent Sinthumule,
Tshimangadzo Ratshivhadelo & Tshililo
 Nelwamondo (2020) Stakeholder perspectives
on land-use conflicts in the South African
section of the Greater Mapungubwe
Transfrontier Conservation Area, Journal of
Land Use Science, 15:1, 11-24, DOI:
10.1080/1747423X.2020.1739767

Simangele Dlamini & Solomon G.
Tesfamichael & Yegnanew Shiferaw & Tholang
Mokhele, 2020. "Determinants of
Environmental Perceptions and Attitudes in a
Socio-Demographically Diverse Urban Setup:
The Case of Gauteng Province, South Africa."
12(9), pages 1-15, April.

Fundisi E, Musakwa W, Ahmed FB,
Tesfamichael SG (2020) Estimation of woody
plant species diversity during a dry season in a
savanna environment using the spectral and
textural information derived from WorldView-2
https://doi.org/10.1371/journal.pone.0234158

Dlamini, S., Tesfamichael, S.G., Shiferaw,
Y.A. et al. Socio-demographic determinants
of place attachment in Gauteng, South
Africa, using partial proportional odds
https://doi.org/10.1007/s10708-020-10240-1

Margaret Phiri, Yegnanew A. Shiferaw &
Solomon G. Tesfamichael (2020) Biome-
level relationships between vegetation
indices and climate variables using time-
series analysis of remotely-sensed data,
GIScience & Remote Sensing, 57:4, 464-
482, DOI: 10.1080/15481603.2020.1733325

Mabaso, Thembeka & Topkin, James &
Rampedi, Isaac & Modley, Lee-Ann.
(2020). The Potential of Generating
Electrical Energy from Digester Carbon
Waste Sources at Erwat Wastewater
Treatment Facilities, South Africa. The
Journal of Solid Waste Technology and
Management, 46. 148-
159. 10.5276/JSWTM/2020.148

Mankga, Ledile & Yessoufou, Kowiyou &
Chitakira, Munyarakadzi. (2020). On the origin
and diversification history of the African
genus Encephalartos. South African Journal
of Botany. 130. 231-239.
Publications continued:

[https://doi.org/10.1111/aje.12694](https://doi.org/10.1111/aje.12694)

[https://doi.org/10.1371/journal.pone.0239314](https://doi.org/10.1371/journal.pone.0239314)


Monaledi Modiegi, Isaac T. Rampedi, Solomon G. Tesfamichael, Comparison of multi-source satellite data for quantifying water quality parameters in a mining environment, Journal of Hydrology, Volume 591,2020,125322,ISSN 0022-1694,  

**Ndizulafhi Innocent Sinthumule** (2020) Borders and border people in the Greater Mapungubwe Transfrontier, Landscape Research, 45:3, 280-291, DOI:  


[https://doi.org/10.3390/su13052502](https://doi.org/10.3390/su13052502)

Masekameni, MD; Makonese, T; Rampedi, IT & Keretete, GA. (2020). Morphology and elemental analysis of freshly emitted particles from packed-bed domestic coal combustion. *Clean Air Journal*.  
[https://doi.org/10.17159/caj/2020/30/2.8582](https://doi.org/10.17159/caj/2020/30/2.8582).
Publications continued:


MSc Graduations and supervisors:

**MSc**

Maruapula Karabo; Community perceptions on Water Resource Management: A case study of the Roodeplaat Dam, South Africa. MSc Environmental Management. Supervisor- Dr. LS Modley & Dr. K Yessoufou

Marole Malebo Salome; Water quality monitoring in Kaalspruit River, Tembisa, South Africa. MSc Environmental Management. Supervisor- Dr. LS Modley & Prof. IT Rampedi & Prof. S Bufo

Morosele ltumeleng Pearl; An assessment of the impacts of commissioning coal-fired power stations on ambient air quality. MSc Environmental Management. Supervisor- Dr. K Langerman
MSc Graduations and supervisors continued:

Zwedzi Lutendo; Delineating wetland waterbodies of wide spatial variation using remote sensing techniques. MSc Geography. Supervisor- Prof. SG Tesfamichael

Boihang Mothusi Thabiso Ernest; Community perspectives on socio-economic benefits of mining industries in the Moses Kotane Local Municipality, North-West Province, South Africa. MSc Environmental Management. Supervisor- Prof. K Yessoufou

Khophathe Ndamulelo Mildred; Investigating the effects of biotic and abiotic interactions on the tradeoff in plant investment in size-dependent survival and reproductive strategies along an elevational gradient. MSc Environmental Management. Supervisor- Prof. K Yessoufou

PhD

Dlamini Bonginkosi Robert; Evaluating the performance (effectiveness and efficiency) of waste management and minimization practices in the District Municipalities (Umkhanyakude and Zululand) in the KwaZulu-Natal Province, South Africa. PhD Environmental Management. Supervisor- Prof. IT Rampedi

Dlamini Simangele; Spatial and Demographic Characterisation of Environmental Perceptions, Attitudes and Place Attachment: The case of Gauteng, South Africa. PhD Geography. Supervisor- Prof. SG Tesfamichael & Dr T Mokhele

2020 Student Numbers:

First year 192
Second year 135
Third Year 70
Honours 50
Masters 57
Doctoral 25
Changes to curriculum:

The department developed and offers six accredited short learning programmes (SLPs) to address the skill shortage of Geography teachers. Five of the SLPs are aimed at teachers in the FET Phase and include training in mapwork, GIS, Climatology, Geomorphology and Economic Geography. The sixth SLP is for teachers in the Intermediate Phase and provides training in mapwork. During 2019/2020 the department trained 304 teachers and currently (2021) 500 Gauteng Geography teachers are enrolled for training.

An additional new short learning programme was developed for environmental management practitioners entitled: Risks and Socio-Environmental Sustainability. This programme aims to train current and future leaders on risk prevention, risk assessment and risk management towards more sustainable human-environment interactions. Students who complete the short learning programme in risk and socio-environmental sustainability will acquire a number of competencies and skills. This SLP will enable students to be professionally competent and to become acquainted with the different procedures in environmental risk assessment as well basic skills in understanding social and environmental sustainability and its relevance for organizations in their different contexts.

Link to departmental page

https://www.uj.ac.za/faculties/science/geography
Name of department:

• Environmental and Geographical Science

Head of department:

• M R Sowman

Information about the Geographers and their area of specialisation in the department:

South African Research Chairs:
B C Hewitson – Climate Science
R P Wynberg - Environmental and Social Dimensions of the Bioeconomy

Professors:
M New - Climate Change
S E Oldfield - Urban Studies
M Ramutsindela - Political Geography and Political Ecology

Associate Professors:

B J Abiodun - Atmospheric Science
P Anderson - Urban Ecology
F D Eckardt - DrylandGeomorphology
Z Patel - Urban Transitions and Transdisciplinary Research
M R Sowman - Environmental Governance and integrated coastal fisheries
G Ziervogel - Climate Change Adaptation, Urban Governance, Transdisciplinary Approaches

Senior Lecturers:

Dr S Daya - Culture and identity
Dr K J Winter - Water Science and Resource Management

Lecturers:

Dr J von Holdt - Physical Geography, Land/Atmosphere interactions
Dr P Mbatha - Environmental governance and human geography
Dr S Suraya - Urban studies, urban citizenship, water & land/housing politics
Geographers continued:

Emeritus Professor:
R F Fuggle - impact assessment and management

Senior Research Scholar
M E Meadows - Physical Geography, Quaternary Environments

Exciting departmental news

Gina Ziervogel was awarded a Fulbright for 2021 to spend time at University of California, Santa Cruz. She received a B2 NRF rating and was awarded the University’s Social Responsiveness award for 2020. She was also chosen for the 6th cohort of the Homeward Bound programme in 2021, a women in STEMM leadership programme culminating in an Antarctic voyage.

2020/2021 List of publications


Available: [http://dx.doi.org/10.1002/joc.6386](http://dx.doi.org/10.1002/joc.6386).

Available: [http://dx.doi.org/10.1038/s41893-020-00620-3](http://dx.doi.org/10.1038/s41893-020-00620-3).
**Publications continued:**


Publications continued:


Publications continued:


SSAG NEWS 2020/21

SOCIETY OF SOUTH AFRICAN GEOGRAPHERS
UNIVERSITY OF CAPE TOWN

Publications continued:


Publications continued:


**Publications continued:**


Publications continued:


Publications continued:


Publications continued:


Publications continued:


SOCIETY OF SOUTH AFRICAN GEOGRAPHERS


MSc and PhD graduations
and supervisors:

MSc:

Hassan Abdullahi Ali; Supervisor Oldfield, Sophie Elaine

Hill Erin; Supervisor Scott, Diane Lesley

Karlie Makeya; Supervisor Wolski, Piotr

Kganyago Mpho Clementine; Supervisor Wynberg, Rachel Paula

Lethugile Goabamang; Supervisor Skinner, Caroline Jane

Maarstoel Marte; Supervisor Shackleton, Sheona

Macdonald Margaret; Supervisor Raemaekers, Serge

Moshani Aphiwe; Supervisor Mbatha, Philile

Ngben Joseph; Supervisor Oldfield, Sophie Elaine

Pelaez Avila Julia; Supervisor Scott, Diane Lesley

Rabenold Colton; Supervisor Sowman, Merle Rozanne

Ramugondo Ntanganedzeni; Supervisor Crespo, Olivier

Roy Sayak; Supervisor - Oldfield, Sophie Elaine

Samuels Mogammad; Supervisor - Sowman, Merle Rozanne
MSc and PhD graduations and supervisors continued:

Simon Gutierrez Ana Ali; Supervisor - Rennkamp, Britta

Warries Rosca; Supervisor- Sitas, Friderike

Webster Kelly

PhD:

Abba Omar Sabina Supervisor
Abiodun, Babatunde Joseph

Cowan Oliver; Supervisor-Anderson, Pippin

Egbebiyi Temitope; Supervisor - Crespo, Olivier

Lavelle Jessica-Jane; Supervisor - Wynberg, Rachel Paula

Lukas Megan; Supervisor - Daya, Shari Lynne
Mogende Emmanuel; Supervisor - Ramutsindela, Maano Freddy

Nguvava Mariam; Supervisor - Abiodun, Babatunde Joseph

Williams Portia; Supervisor- Crespo, Olivier

2020 student numbers:

First year 301
Second year 210
Third year 219
Honours 16
Masters Diss 46
Masters CW 95
PHD 65
Post doc 15

Link to departmental web page:

http://www.egs.uct.ac.za/