

# CURRICULUM VITAE: Werner Nel

## 1. BIOGRAPHICAL SKETCH

1.1 General information						
<b>Surname</b>	Nel	<b>Spouse</b>	Married to Martelize Nel, May 2002, we have three children			
<b>First names</b>	Werner	<b>ID Number</b>	7507125027083			
<b>Citizenship</b>	RSA	<b>Title</b>	Prof	<b>Female</b>		<b>Male</b> M
<b>Place of birth</b>	East London, Eastern Cape, RSA	<b>Date of birth</b>	1975 07 12			
<b>University</b>	University of Fort Hare, Dept. of Geography and Environmental Science	<b>Position</b>	Associate Professor			
<b>Direct Telephone</b>	0824827814	<b>Direct e-fax</b>	086 6200 274			
<b>E-mail</b>	wnel@ufh.ac.za					

1.2 Academic qualifications obtained				
Degree/ Diploma	Field of study	Higher education institution: University	Period	Distinction
B.Sc	Earth Science: Atmospheric Sciences	Pretoria	1995-1998	N
B.Sc (Hons)	Environmental Management and Analysis	Pretoria	1999-2000	Y
M.Sc	Geography (Geomorphology/ Quaternary science topic).	Pretoria	2001-2002	N
PhD	Geography (Climatology/Geomorphology topic).	Pretoria	2003-2007	n/a

1.3 Work experience to date		
Name of employer	Capacity and/or type of work	Period
Department of Environmental Affairs and Tourism	Field Assistant (Research)	Mar 1999-May 2000
University of Pretoria	Junior Lecturer, (Part-time)	Jan 2001-Dec 2002
Pretoria Technikon	Lecturer (Part-time)	Jan 2002-July 2003
University of Transkei	Lecturer (Permanent, full-time)	Aug 2003- Dec 2005
University of Fort Hare	Lecturer (Permanent, full-time)	Jan 2006- Dec 2008
University of Fort Hare	Senior Lecturer (Permanent, full-time)	Jan 2009- Dec 2010
University of Fort Hare	Associate Professor (Permanent, full-time)	Jan 2011-

## 2. TEACHING ACTIVITIES

2.1 Courses presented		
Course description	Level	Self developed
<b>Courses presented at University of Pretoria, 2001-2002</b>		
Process Geomorphology	(Second Year)	No
Environmental Geomorphology	(Third Year)	No
Natural Resource Management	(Third Year)	Yes
Biogeography of South Africa	(First Year)	Yes
<b>Courses presented at Pretoria Technikon, 2002-2003</b>		
Environmental Resources Management	(Third Year)	Yes
Environmental Resources: Waste Management	(BTech)	Yes
Process Management	(First Year)	Yes
<b>Courses presented at University of Transkei, 2003-2005</b>		
Introduction to the Physical Environment	(First Year)	Yes
Introduction to Environmental Techniques	(First Year)	Yes
Soil Science	(Second Year)	Yes
Atmosphere and Terrain Analyses	(Second Year)	Yes
Terrestrial Resource Management	(Third Year)	Yes
Rural Resource Management	(Third Year)	Yes
Social Impact Analyses	(Third Year)	Yes
<b>Courses presented at University of Fort Hare, 2006-Present</b>		
Climatology	(First Year)	Yes
Climatology	(Second Year)	Yes
Climatology	(Third Year)	Yes
Applied Climatology	(Honours)	Yes
Natural Resource Management	(Masters)	Yes
Biogeography	(Third Year)	Yes

Course guides were produced for all courses

Field excursions: Undergraduate teaching activities included annual, course-related, field excursions:

Postgraduate field trips, exploratory and research-related:

- Marion Island, 2006, 2 students (UP)
- Marion Island, 2007, 1 student (UFH), 2 students (UP)
- Mauritius, 2007, 2 students (UP)
- Hogsback, 2007, 2 students (UFH)
- Marion Island, 2008, 1 student (UFH), 2 students (UP)
- Mauritius, 2009, 4 students (UP)
- Mauritius, 2010, 1 student (UFH), 1 student (UP)
- Antarctica 2010, 1 student (Rhodes)
- Mauritius, 2011, 1 student (UFH), 3 students (UP)

## 3 RESEARCH ACTIVITIES

**Research Interests:** Geomorphology, specifically: Mountain and Polar geomorphology, Climatology, specifically: Micro- and synoptic climatology, climate/surface process interaction, climate change

3.1 Completed Post-graduate students				
Name of student	Degree	Project theme	Supervisor	Year of completion
B Mubiwa	MPhil. (Cum Laude)	Ecological degradation in Zimbabwe: The case of Makarara	W Nel	2007
M Maanela	MPhil	Community based tourism	W Nel (Co)	2008

S Mazinyo	Mphil	Community participation in waste management	W Nel	2009
P Mleta	MSc	An analysis of groundwater in Mchinji District of Central Malawi	W Nel	2009
MB Zilindile	BSc Hons	Ground climate of Marion Island	W Nel	2007
DA Reynhardt	BSc Hons	Altitude effect of rainfall in Drakensberg	W Nel	2008
T Mongwa	BSc Hons	Aspect controls of temperature variability on Marion Island	W Nel	2009
M Deyi	BSc Hons	Using GIS to correlate water quality and water hyacinth growth in Mthatha river	W Nel	2010
C Thabethe	BSc Hons	Spatial distribution of daily rainfall on Mauritius	W Nel	2010

### 3.2 Current Masters/Doctoral students

Name of student	Degree	Project theme	Supervisor	Co-supervisor	Year of registration
S Mazinyo	PhD	The effect of climate change on water and food security in EC	W Nel	-	2011
H Magagula	PhD	Military Operations and Environmental Management in the South African Defence	L Wotshela	W Nel	2008
C Hansen	MSc	Blockfield research in Antarctica (Rhodes University)	KI Meikljohn	W Nel	2011
T Mongwa	MSc	Rainfall intensity on Mauritius	W Nel	PD Sumner SDDV Rughapooth	2010
M Mahlulo	MPhil	Urbanisation on Orange grove	W Nel	-	2008
Z Vokozela	MPhil	Social risk vulnerability in EC schools	W Nel	-	2008
X Tsama	MPhil	Waste disposal in KSD Municipality	W Nel	-	2008
P Jennings	MPhil	Regulations of Authorizations in EIA reports	W Nel	-	2009

### 3.3 Obtaining research funds

Origin of research funds	Title of research project or programme	Duration	Money allocated (R)
European Science Foundation	SEDIFLUX Science Meeting, Iceland	Sept. 2004	R 10 500
UFH Travel Grant	Highlands Conference, Ethiopia	Sept. 2006	R 15 000
NRF / SANAP (Co-investigator)	Geomorphology and Climate Change: Antarctica and Prince Edward Islands	2006-2011	R 1 711 000 (and logistic support)
UFH Research Capacity Grant	Climate of the Drakensberg and its geomorphic implications	2006-2007	R 20 000/annum
UFH Research Grant	Rainfall intensity monitoring and its associated surface processes on the island of Mauritius.	2008	R 20 000
NRF/ SIDA Travel Grant	Geobiology Field Workshop, Abisko Research Station, Swedish Arctic	2008	R 25 000
UFH Research Grant	Rainfall intensity monitoring and its associated surface processes on the island of Mauritius.	2009	R 43 000

UFH Research Grant	Rainfall intensity monitoring and its associated surface processes on the island of Mauritius.	2010	R 40 000
NRF Incentive funding for rated researchers	Funding used for all current projects	2010	R 40 000
NRF Incentive funding for rated researchers	Funding used for all current projects	2011	R 40 000

## 4 RESEARCH OUTPUTS

### 4.1 Papers in peer-reviewed journals

#### Published

- Sumner, P.D. and **Nel, W.** (2002). The effect of rock moisture on Schmidt hammer rebound: tests on rock samples from Marion Island and South Africa. *Earth Surface Processes and Landforms*, 27, 1137-1142. [ISI journal]
- Sumner, P.D., **Nel, W.**, Holness, S. and Boelhouwers, J. (2002). Rock weathering characteristics as relative-age indicators for glacial and post-glacial landforms on Marion Island. *South African Geographical Journal*, 84, 153-157. [ISI journal]
- Nel, W.**, Holness S. and Meiklejohn, K.I., (2003) Observations on rapid mass movement and screes on sub-Antarctic Marion Island. *South African Journal of Science*, 99, 177- 181. [ISI journal]
- Sumner, P.D., Meiklejohn, K.I., **Nel, W.** and Hedding, D. (2004). Thermal attributes of rock weathering: zonal or azonal? A comparison of rock temperatures from different environments. *Polar Geography*, 28, 79-92.
- Nel, W.** and Sumner, P.D. (2005). First rainfall data from the KZN Drakensberg escarpment edge (2002 and 2003). *Water SA*, 31, 399-402. [ISI journal]
- Sumner, P.D. and **Nel, W.** (2006). Surface-climate attributes at Injisuthi Outpost, Drakensberg, and possible ramifications for weathering. *Earth Surface Processes and Landforms*, 31, 1445-1451. [ISI journal]
- Nel, W.** and Sumner, P.D. (2006). Trends in rainfall total and variability (1970 – 2000) along the KwaZulu-Natal Drakensberg foothills. *South African Geographical Journal*, 88, 130-137. [ISI journal]
- Nel, W.** (2007). Intra-storm attributes of extreme storm events in the Drakensberg, South Africa. *Physical Geography*, 28, 158-169. [ISI journal]
- Nel, W.** and Sumner, P.D. (2007). Intensity, energy and erosivity attributes of rainstorms in the KwaZulu-Natal Drakensberg, South Africa. *South African Journal of Science*, 103, 398-402. [ISI journal]
- Nel, W.** and Sumner, P.D. (2008). Rainfall and temperature attributes on the Lesotho-Drakensberg escarpment edge, southern Africa. *Geografiska Annaler*, 90 (1), 97-108. [ISI journal]
- Nel, W.** (2008). Observations on daily rainfall events in the KwaZulu-Natal Drakensberg. *Water SA*, 32(4), 271-274. [ISI journal]
- Nel, W.** (2009) Rainfall trends in the KwaZulu- Natal Drakensberg region of southern Africa during the Twentieth Century. *International Journal of Climatology*, 29(11), 1634-1641. [ISI journal]
- Nel, W.**, Van der Merwe, B. and Meiklejohn, K.I. (2009) Rethinking climate change impacts on sub-surface temperatures in a subantarctic mire affected by synoptic scale processes. *Earth Surface Processes and Landforms*, 34, 1446- 1449. [ISI journal]
- Nel, W.**, Boelhouwers, J and Zilindile, M.B. (2009) The effect of synoptic scale weather systems on sub-surface soil temperatures in a diurnal frost environment: Preliminary observations from sub-Antarctic Marion Island *Geografiska Annaler A*, 91(4), 313-319. [ISI journal]

15. **Nel, W.**, Reynhardt D.A. and Sumner, P.D. (2010) Effect of altitude on erosive characteristics of concurrent rainfall events in the northern KwaZulu-Natal Drakensberg. *Water SA*. 36(4), 509-512. [ISI journal]
16. **Nel, W.** (2011) A preliminary synoptic assessment of soil frost on Marion Island and the possible consequences of climate change in a maritime sub-Antarctic environment. *Polar Research in press* (ISI Rated Journal)

#### Submitted manuscripts

Sumner, P.D., Hall, K., Meiklejohn, K.I., and **Nel, W.** (submitted). *Weathering* In Holmes, P.J; Meadows, M (eds), *The Geomorphology of Southern Africa*

**Nel, W.** (Submitted) Landscape responses to climate forcing on sub-Antarctic Marion island: Current knowledge, key questions and a way forward in predicting future responses to a changing climate. *Polar Geography*

#### 4.2 Books and chapters in books

1. Mubiwa, B. and **Nel, W.** (2010) *Environment as the Victim of Circumstances: Land Redistribution, Ecological Sustainability and Impact Mitigation at Makarara, Zimbabwe*. Lambert Academic Publishing, Saarbrücken, Germany. ISBN 978-3-8383-6542-8.
2. Mazinyo, S and **Nel, W.** (2010) *Community Participation in Solid Waste Management*. Lambert Academic Publishing, Saarbrücken, Germany. ISBN 978-3-8383-7313-3

#### 4.3 Published conference papers, extended abstract and book reviews.

1. Sumner, P.D. and **Nel, W.** (2004). Environmental controls and rates of rock weathering on sub-Antarctic Marion Island. In Baylich AA; Saemundsson P; Decaulne A; Sandberg O (eds), *Extended Abstracts, First Science Meeting of the European Science Foundation Network Sediflux*, Iceland, 87-88.
2. **Nel, W.** (2006) de Jong, C. Collins, D. and Ranzi, R. (Eds), *Climate and Hydrology in Mountain Areas*, Wiley, Chichester, 2005, 315pp. Book review, *South African Geographical Journal*, 88 (1) 114-115.

#### 4.4 Technical reports / project reports

1. Boelhouwers, J.C., Holness, S.D., Sumner, P.D. and **Nel, W.** (2001): *Geocryogenic Landforms and Processes on Marion Island*. Final project report to SACAR (South African Council for Antarctic Research) (April 1996 - March 2001), 80pp.

#### 4.3 Theses

Dissertation: **MSc** (2001). *A spatial inventory of glacial, periglacial and rapid mass movement forms on part of Marion Island: Implications for Quaternary environmental change*. Supervised by Prof. Ian Meiklejohn (UP). External examiner: Prof Jan Boelhouwers (Uppsala)

Thesis: **PhD** (2007). *On the climate of the Drakensberg: rainfall and surface-temperature attributes, and associated geomorphic effects*. Supervised by Prof. Paul Sumner (UP). External examiners: Prof Colleen Vogel (Wits), Dr John McGregor CSIRO (Australia).

## 5 OTHER SCHOLARLY RESEARCH-BASED CONTRIBUTIONS

### 5.1 Participation in conferences and workshops

#### 5.1.1 National

**Nel, W.** Geomorphological Mapping and Spatial Distribution of Grey Lava Glacial and Periglacial Features on the Eastern Side of Marion Island, *Paper presentation at SAAG (Southern Africa Association for Geomorphologists) 2000 IV<sup>th</sup> Biennial Conference, 09-12 July 2000, University of Pretoria, Hammanskraal Campus.*

Sumner, P.D. and **Nel, W.** *Influence of Moisture Content on Schmidt Hammer Rebound Values.* Short communication presentation at SAAG (Southern Africa Association for Geomorphologists) 2000 IV<sup>th</sup> Biennial Conference, 09-12 July 2000, University of Pretoria, Hammanskraal Campus.

**Nel, W.** *Rapid Mass Movement on Long Ridge, Marion Island: A Case Study* Poster presentation at SAAG (Southern Africa Association for Geomorphologists) 2000 IV<sup>th</sup> Biennial Conference, 09-12 July 2000, University of Pretoria, Hammanskraal Campus.

Sumner, P.D., **Nel, W.** and **Meiklejohn, K.I.** *The geomorphology of a rockfall-landslide in the Injasuti valley, KZN Drakensberg* Paper presented (in absentia) at the SSAG (Society of South African Geographers) Fourth biennial conference. Southern Africa 2001: A Space Odyssey, 02-05 July 2001, Goudini Spa.

**Nel, W.** and Sumner, P.D. *New data on the rainfall regime of the escarpment of the KwaZulu- Natal Drakensberg.* Poster presented at the SSAG (Society of South African Geographers) Fifth Biennial International Conference. September 2003, Bloemfontein.

**Nel, W.** *Climate of the Drakensberg.* Paper presentation at the Drakensberg biophysical research needs workshop. 6-9 February, Midmar

**Nel, W., Meiklejohn, K.I. and Sumner, P.D.,** Anomalies in the interpretation of the extent of Late Quaternary Glaciation on Sub- Antarctic Marion Island. Paper presentation at SAAG (Southern Africa Association for Geomorphologists) VI<sup>th</sup> Biennial Conference, 04-6 April 2004, Knysna, Western Cape.

**Nel, W.** and Sumner, P.D. *Trends in rainfall total and variability (1970-2000) across the KwaZulu-Natal Drakensberg.* Paper presented at the SSAG (Society of South African Geographers) Sixth biennial International Conference. September 2005, Cape Town.

**Nel, W.** and Sumner, P.D. *Rainfall intensity, kinetic energy and erosivity across the KwaZulu-Natal Drakensberg, South Africa.* Paper presented at SAAG (Southern Africa Association for Geomorphologists) VII<sup>th</sup> Biennial Conference, 15-17 September 2006, Pietermaritzburg.

Sumner, P.D and **Nel, W.** *An overview of rock weathering studies on sub-Antarctic Marion Island (1997-2004).* Paper presented at SAAG (Southern Africa Association for Geomorphologists) VII<sup>th</sup> Biennial Conference, 15-17 September 2006, Pietermaritzburg.

**Nel, W.** *Rainfall trends in the KwaZulu- Natal Drakensberg region of southern Africa during the Twentieth Century* Paper presented at the SSAG (Society of South African Geographers) Seventh biennial Conference. July 2007, Port Elizabeth.

**Nel, W.,** Boelhouwers, J., Meiklejohn, K.I. and Hedding, D. *A review of the ground thermal attributes on Marion Island and its geomorphic and climate change implications.* Poster presented at the SANAP PI Workshop, October 2007, Stellenbosch.

Boelhouwers, J., **Nel, W.** and Zilindile, M.B. *Topographic and vegetation controls on soil temperature spatial variability: synoptic-scale observations from Marion Island.* Poster presented at the SANAP PI Workshop, October 2007, Stellenbosch.

Mubiwa, B and **Nel, W.** *Impact of the Zimbabwean Land Redistribution Programme on Ecological Dynamics at Makarara Farm: Evidence from Multi-temporal Remotely Sensed Imagery.* Paper presented at the (South African Environmental Observation Network) GSN (Graduate Student Network) Indibano, August 2008, Cape Town.

**Nel, W.,** Boelhouwers, J. and Zilindile, M.B *The effect of synoptic weather systems on soil temperatures on sub-Antarctic Marion Island: Exploring the temporal scale measurements necessary for detecting climate change in a diurnal frost environment.* Paper presented at the South African Association for Geomorphologists, 27-28 September 2008, Pretoria

**Nel, W.** and Sumner, P.D. *Rainfall attributes in the KwaZulu-Natal Drakensberg and its geomorphic implications.* Paper presented at the South African Association for Geomorphologists, 27-28 September 2008, Pretoria

**Nel, W.**, *Landscape responses to atmospheric air circulation patterns on Marion Island: Synoptic scale observation and implications for climate change*. Paper presented at the SANAP PI Workshop, February 2009, Cape Town.

**Nel, W.**, *Exploring the complex interactions between climate and landscape on sub-Antarctic Marion Island and the implications for detecting change*. Paper presented at the SSAG (Society of South African Geographers) Eighth biennial Conference. September 2009, Pretoria.

**Nel, W.**, *Atmospheric circulation*. Paper presented at the Habitable Planet Workshop, July 2010, Grahamstown.

**Nel, W.**, *Geomorphology Futures: A review of Post Graduate Research*. Paper presented at the Biennial Conference of the South African Association of Geomorphologist, September 2010, Grahamstown.

**Nel, W.**, *Synoptic circulation patterns associated with PCA analyses (1960-2009)* Paper presented at the Geobiology Workshop October 2010, University of Pretoria, Pretoria.

**Nel, W.**, *Landscape responses to synoptic climate forcing in the sub-Antarctic: Current knowledge and predicting future responses to a changing climate* Paper presented at the Habitable Planet Workshop, July 2011, Grahamstown.

**Nel, W.**, *Landscape responses to synoptic climate forcing in the southern Polar regions: Current knowledge and predicting future responses to a changing climate* Paper presented at the NRF Antarctic winter school, July 2011, SANSA, Hermanus

#### 5.1.2 International

Sumner, P.D. and **Nel, W.** *Environmental controls and rates of rock weathering on sub- Antarctic Marion Island*. Poster presented at the ESF SEDIFLUX Science meeting in Saudorkrokur, Iceland. June 2004, pp 87- 88.

Sumner, P.D and **Nel, W.** *Contemporary and palaeo-climates of the Lesotho Highlands: new data linking past and present*. Poster presented at the Highland Symposium 18-26 September 2006, Mekelle, Ethiopia.

**Nel, W.** and Sumner, P.D. *The use of the D-MCS rainfall gauge in the South African Drakensberg: rainfall attribute measurements, and associated geomorphic implication*. Presentation at the University of Mauritius, 3 June 2008, Reduit, Mauritius.

**Nel, W.**, Boelhouwers, W., Meiklejohn, K.I., van der Merwe, B.J. and Zilindile, M.B. *Sub-surface temperatures on subantarctic Marion Island: Preliminary synoptic scale observations and the implications for climate change*. Paper presented at the Geobiology Field Workshop 16-25 August 2008, Abisko Research Station, northern Sweden.

#### 5.2 Research projects involvement and collaboration:

- 1999-2000 SANAP Programme (Cryogenic processes and landforms on Marion Island (sub-Antarctic) team member with Prof. Jan Boelhouwers (leader)(Uppsala) and Dr Stephen Holness (UWC), Prof Ian Meiklejohn and Prof Paul Sumner (both UP).
- 1999-2000 Member of DEA&T/SANAP overwintering expedition to Marion Island as field assistant to Cryogenic processes and landforms project on Marion Island.
- 2002 DEA&T/SANAP April 2002 Marion Island takeover expedition member.
- 2003-2007 PhD. Research project: On the climate of the Drakensberg: rainfall and surface-temperature attributes, and associated geomorphic effects.
- 2006-2012 Co- Investigator on the SANAP/NRF funded project on Marion Island and Dronning Maud Land Antarctica. Research is in conjunction with the University of Pretoria and Uppsala University (Sweden) Project title: Environmental responses to climate change.
- 2007 Team leader of the geomorphology and climate change research group, DEA&T/SANAP April 2006 Marion Island takeover expedition.

- 2007-2011 Collaboration with Prof. Soonil Rughooputh and Dr. Ravi Boojhawon (both University of Mauritius) on rainfall intensity monitoring and its associated surface processes on the island of Mauritius. Research is conducted with Paul Sumner, associate Professor at the University of Pretoria. It is a 5-year monitoring programme of which I am one of the main collaborators.
- 2008-2009 Participant on a NRF/ SIDA funded project on Marion Island and the Swedish Arctic. Research is in conjunction with the University of Pretoria (Prof. Ian Meiklejohn), University of Stellenbosch (Dr. Peter le Roux) and Uppsala University, Sweden (Prof. Jan Boelhouwers). Project title: Geobiology of sub-Antarctic Ecosystems.
- 2010 Team leader of the geomorphology and climate change research group, DEA&T/SANAP December to February 2010/2011 SANAE Antarctica takeover expedition.
- 2010 DEA&T/SANAP Appointed Chief Scientist for shore base personnel: DEA&T/SANAP December to February 2010/2011 SANAE Antarctica takeover expedition.

### 5.3 Membership in national and international bodies

**Membership:** Society of South African Geographers (SSAG).  
Southern African Association of Geomorphologists (SAAG)  
European Science Foundation (ESF) SEDIFLUX Network  
Permafrost Young Researchers Network (PYRN)

**Councils:** President of the Southern African Association of Geomorphologists (SAAG) (2008-2012)

**International Participation:**

**European Science Foundation (ESF)** - Network participant "Sedimentary source-to-sink fluxes in cold environments" (2003-4). Presented paper at the first workshop held in Iceland, June 2004.

**National Research Foundation/ Swedish International Development Agency (NRF/SIDA)** Participant "Geobiology of sub-Antarctic Ecosystems" (2008-2009) Presented paper at the second workshop held in Abisko northern Sweden, August 2008.

### 5.4 Referee duties

Refereed journal article for: *Water SA* (2008)  
*South African Geographical Journal* (2008)  
*Geoderma* (2008)  
*Water SA* (2009)  
*International Journal of Climatology X2* (2010)  
*Geografiska Annaler* (2010)  
*Irrigation and Drainage* (2010)  
*South African Geographical Journal X2* (2011)  
*Land degradation and development* (2011)

Refereed project and grant proposals: Reviewed application to NRF for funding for non-rated researchers (2009)  
Reviewed grant application proposal for the Czech Science Foundation (GACR)(2010)

External examiner on dissertations: NMMU Geography Department (2008-)  
UKZN Faculty of Science and Agriculture (2009-)

External examiner on Honours and third year courses: WSU Geography Department (2010-)



## 6 MANAGEMENT AND ADMINISTRATIVE DUTIES

### Departmental duties:

Acting Head of Department (April 2010-December 2010)

Deputy Head of Department (2008-)

Course coordinator for GEG 211, GEG 321, GEG 312, GEG 515, GEG 515E, GEG 712, GEG 712E (2006-)

Post-graduate research coordinator (2007-)

East London campus departmental coordinator (2007-)

Organised or co-organised field excursions for the 200, 300 and 500-level courses

### School / Faculty:

Member of the Faculty Board (2006-)

Coordinator of departmental post-graduate applications (2007-)

Member of the Faculty Planning and Management Committee (2010-)

Member of the Faculty Research and Higher Degrees Committee (2011-)

### University:

Timetable committee task team, East London Campus (2007)

Promotions and appointment assessor (2009-)

## 7. COMMUNITY SERVICE

### 7.1 Outreach projects and professional service performed

Tutor: Saturday School for Vista University Long Distance (VUDEC) Honours Students, 2001.

#### Modules include:

Human-Environment Interaction GGR7015.

Environmental Impact Studies GGR7020.

Philosophy, Geographical Methods GGR7070

Settlement Geography GGR7040

Geography lecturer at Empuluzi and Elukwatini Villages in Mpumalanga as part of the SASEN (South African Science Education Network) for the University of Pretoria, Feb-Nov. 2002.

#### Course lectured include:

Earth Science SEF 474

Member of the Chintsa East Care Group: A care group and non-profit organisation that attends to sick and frail members of my residential community (2007-)

Committee member of the Friends of Chintsa (FOC), a non-profit organisation affiliated with the Wildlife and Environment Society of South Africa (WESSA). I hold the conservation portfolio on the management committee.

Current Projects: Feeding scheme, Project cleanup, Surf school.

Committee member of the Chintsa East Ratepayers and Residents Association (CERPA), I hold the database and IT portfolio on the management committee.

Participant in 1 radio broadcast for TRU FM on climate change March 2009

Participant in 2 radio broadcasts for Forte FM a community radio station in the Nkonkobe Municipality on the Antarctic Science and career paths in the sciences, July 2009.

## 8 AWARDS AND SCIENTIFIC/SCHOLARLY RECOGNITION

### 8.1 Evaluation status as scientist/scholar

Total research published outputs stand at 21 of which 16 are papers in peer-reviewed journals. Of the 16 peer-reviewed journal articles, 15 are in ISI-rated journals (12 first authored).

NRF Rating: I hold an Y<sub>2</sub> rating from the NRF (1 Jan 2010).

Citations: **SCOPUS:** My research papers have 80 citations (July. 2011), *h* index = 5

Citations occur in the following INTERNATIONAL journals:

**Earth Surface Processes and Landforms**  
**International Journal of Rock Mechanics and Mining Sciences**  
**Journal of Coastal Research**  
**Progress in Physical Geography**  
**Arctic, Antarctic and Alpine Research**  
**Geomorphology**

**Engineering Geology**  
**Quaternary Science Reviews**  
**Zeitschrift für Geomorphologie**  
**Geografiska Annaler**  
**Polar Geography**

The following paper: Nel, W. and Sumner, P.D. (2008). Rainfall and temperature attributes on the Lesotho-Drakensberg escarpment edge, southern Africa published in *Geografiska Annaler* was the highest cited paper in 2009 for all volumes of the journal.

### 8.2 Research awards and prizes

Outstanding research project B.Sc. Honours Environmental Analysis and Management (*cum laude*) 2000.  
 Academic honorary colours for B.Sc. Honours Environmental Analysis and Management (*cum laude*) 2000.  
 Saambou Bank prize for the best Honours student in all disciplines in the Department of Geography and Geoinformatics 2000.

SANAP (South African National Antarctic Program) Research Assistantship and Bursary May 2000- April 2001.  
 Merit bursaries, University of Pretoria 1999 – 2003  
 University of Fort Hare Research Capacity Grant (2006-2007)  
 University of Fort Hare Research Grant (2008-2010)  
 NRF Incentive for Rated Researchers (2010-2015)

**Received the University of Fort Hare Vice Chancellor's Medal for Emerging Researcher 2009**

**Nominated by the Dean of Science and Agriculture as Young Scientist as Founding Members of the South African Young Academy of Science (SAYAS)**

## 9. Interests

Extensive travelling done in South Africa. Foreign countries visited include: Lesotho, Swaziland, Botswana, Mozambique, Namibia, Ethiopia, Mauritius, England, Belgium, Holland, Sweden, Iceland and France.

Other interests: Surfing, Rock-climbing, Mountaineering, South African war history

## 10. References

Prof. P.D. Sumner  
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