

Mr. Tiro Nkemelang

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Nationality: Botswana
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ACADEMIC BACKGROUND

July 2018-present **University of Cape Town (South Africa)**
Qualification PhD Environmental and Geographical Sciences with a
focus on Attribution of Impacts of Climatic Extremes in
Southern Africa. My research seeks to detect and attribute the
influence of anthropogenic climate change on wildfire risk in
South Africa.

February 2017-2018 **University of Cape Town (South Africa)**
Qualification MSc Climate Change and Development, his minor
dissertation topic was entitled “Evaluating Temperature and
Precipitation Extremes under a 1.5oC and 2.0oC Warming
above Pre-Industrial Levels: Botswana Case Study” from
which an academic paper has been published.

October 2009 - 2012 **University of Reading, (United Kingdom)**
Qualification Bsc (Hons) Meteorology.

August 2007- 2009 **University Of Botswana**
Qualification Bachelor of Science (Part 1).

WORK EXPERIENCE

Associate Researcher Climate Change at the Botswana Institute for Technology, Research
and Innovation - BITRI, (February 2016-present)

- Main area of research involves developing and adapting methods to downscale global climate projections to scales appropriate for assessments and policies in Botswana.

Meteorologist (II) at the Department of Meteorological Services, Botswana (December 2012
– January 2016)

- Mainly short term weather forecasting. Weather observations and analysis of synoptic charts, NWP model outputs interpretation.
- Attending to requests from customers including presenting the weather on Radio.

Teaching Assistant (Physics) at the Botswana International University of Science and
Technology (August 2012 – December 2012)

- My duties included facilitating during tutorials and Physics laboratory experiments, as well as assisting laboratory technicians set up the lab for the students.

- Helping students with Physics problems whenever they need such assistance.
- Marking and grading tests, laboratory reports and quizzes.

Chairman of the Reading University Christian Union (March 2011 – February 2012).

- Leading activities run by the Christian Union as part of a team of 10 committee members. Duties involved organising committee meetings, planning for events, delegating people to participate in organising the events.

PUBLICATIONS

Nkemelang, T., New, M. & Zaroug, M. 2018. Temperature and precipitation extremes under current, 1.5 °C and 2.0 °C global warming above pre-industrial levels over Botswana, and implications for climate change vulnerability. *Environmental Research Letters*. 13(6):065016. DOI: 10.1088/1748-9326/aac2f8.

ADDITIONAL SKILLS

- Working on a Linux operating system platform (bash)
- Climate data processing and analysis in R
- Good English writing and communication skills
- Ability to work in teams
- Willingness to work extra and elongated hours

HOBBIES

- I like sports, play football with friends and hanging out with people, meeting new people and learning about different cultures.

PERSONAL ATTRIBUTES

- Always willing to learn something new, I believe that every day is a chance for one to increase in one's knowledge, believes in hard working and critical thinking.

REFREES

Prof Mark New

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African Climate & Development Initiative
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