

Joyce Jepngetich Kimutai

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Female

Kenyan

English and Swahili

Professional Objective

To inspire high in my profession and excel in my duties; having the aptitude to work in any kind of environment and being a team player. In different situations, I adapt fast and give open minded contributions for the establishment of good decisions in fulfilling set objectives

Education

**University of Cape Town, South
Africa
African Climate Development
Institute**

2018 –ongoing

Doctorate Degree in Environmental and Geographical
Science

Thesis topic: Probabilistic Attribution of 2012,2016 & 2018
March-May(MAM) Extreme Rainfall in Kenya

University of Nairobi, Kenya

2008-2012

Degree in Bachelor of Science (Meteorology)
Upper Second Class Honours

Thesis topic

Predictability of March-May(MAM) Seasonal rainfall over
the Highlands West of the Rift Valley using Sea Surface
Temperatures over the Atlantic and Indian Oceans

Work Experience

Kenya Meteorological Department Forecaster at National Meteorological Centre (NMC) Division

March 2014 to July 2016

Main duties

- Issue daily weather forecasts using Synergy Systems and other weather models prepare and lead afternoon weather conferences
- Verify all models output statistics as used in the national meteorological center

Main duties

- Use relevant climate models to develop Climate Change and Global Warming Scenarios for Kenya
- Attend and participating in locally and internationally organized climate change forums as well as related activities.

Data design and Climate Modeling at Climate Change Division

From July 2016

Professional Experience

Oxford University
April -June 2019

Climate Research – Visiting student

Intergovernmental Panel on Climate Change(IPCC) Lead Author
2017 – 2019

IPCC Lead Author, Climate Change and Land (Chapter 3 – Desertification)

UNESCO LINKS project
2017 – 2019

Knowing our Changing Climate in Africa

Green Low-carbon and sustainable development training, China
May - July 2017
Oxford University
May 2017

Green Low-carbon Industry and sustainable development for developing countries

Modeling training – Climateprediction.net
Attribution science

Raising Risk Awareness project
with CDKN and WWA
2016-2017

Attribution studies: 2016/2017 Kenyan and Somalia drought

WISER project
2015 - 2016

Participatory scenario planning(PSP) in Western Kenya
Mainstreaming climate Information

Operational Training Course
January - July 2016

World Meteorological Organization (WMO) Institute for Meteorological Training and Research, Nairobi
Project work: Assessment of effects of extreme climate events on water resources in Kenya

Publications

Attributing drivers of the 2016 Kenyan drought – International Journal of Climatology
IPCC Special Report on Climate Change and Land – Chapter 3 (Desertification)

Under review

Impact of precipitation and increasing temperatures on drought in eastern Africa

Technological Proficiency

- PRECIS regional model - experiment setup and Output analysis
- [Weather@home](#) model –experiment setup and Output analysis
- WRF, COSMO
- Programming languages- Python, Fortran, R
- Data analysis and Visualization tools-Python, QGIS, ArcQIS, Grads, Surfer, Climlab, CPT, Systat

Referees

Prof Mark New,
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