

Molulaqhooa Linda Maoyi MSc

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RESEARCH INTERESTS

Climate Modelling, Artificial Intelligence, Web and Mobile Technologies

PROFESSIONAL EXPERIENCE

2015 - CURRENT

Full Stack Web Developer: University of Cape Town

Information and Communication Technology Services

I provide technical leadership and develop specialised Web Applications and Websites as required from time to time using PHP, Java Script, HTML5 and CSS. I Oversee and manage web development projects as well as compiling business, technical and design requirements for web development projects.

2014 - 2015

TV Weather Anchor and Climatologist: eNews Channel Africa

I was responsible for forecasting and presenting live and recorded weather bulletins on etv and eNews Channel Africa. I Presented the Morning, afternoon and Prime-time Weather bulletins in English.

Here are the youtube links to the weather bulletins I've presented :

Morning Weather : https://www.youtube.com/watch?v=XglJ2wE1_Y0

Afternoon Weather : <https://www.youtube.com/watch?v=F0wgDdxYM9k>

Evening Weather : <https://www.youtube.com/watch?v=BJSzPpPrD8>

2013 - 2014

Project Lead : eNews Channel Africa online Weather.

Facilitated the development of the eNCA (eNews Channel Africa) Weather portal and worked with different stakeholders i.e. Project Manager, Head of Design and Head of development to deliver the eNCA weather website. In addition, I also facilitated the development of the mobile version of the weather website and was mainly working on the back-end programming using PHP and contributed significantly to the look and feel of the product.

EDUCATION

CERTIFICATIONS

2016 – **Certificate in International Civilian Peacebuilding Capacity.**

Scuola Superiore San'Ann, Italy and St Austine College, Johannesburg.

2016 - **Certificate in Numerical Modelling with Applications to Landscape Evolution.**

Grenoble Alpes University , France and Nelson Mandela Metropolitan University.

2014 – **Certificate in Individual Voice Program (Voice Training for Television) .**

The Voice Clinic,Cape Town

DEGREES

Currently

PhD Atmospheric Sciences

Provisional Thesis: Understanding the Landfall of Tropical Cyclones over the South West Indian Ocean.

University of Cape Town

2013-2015

MSc Atmospheric Science : Climate Modeling

Thesis: Simulating the Characteristics of Tropical Cyclones over the South West Indian Ocean using an Adaptive Stretched-Grid Global Climate Model.

University of Cape Town

2012

BSc (Hons) Computer Science

Thesis: Threat Modelling in Social Networks using attack centric model.

University of Cape Town

2011

BSc Specialising in Computer Science, Oceanography & Atmospheric Science

University of Cape Town

HONOURS AND AWARDS

2016	UCT Staff Bursary for PhD Studies
2013 - 2014	National Research Foundation (NRF) Scholarship for Masters research.
2012	NRF Scholarship for Computer Science Honours
2011	Harry Crossley Foundation Bursary
2010	Deiter Bock Bursary

LEADERSHIP ROLES

2016	Secretary General of the Science Post Graduate Student Council
2015	Treasurer of the UCT Choir for Africa
2012 - 2013	Public Relations Officer of the UCT Choir for Africa
2011 - 2012	Vice Chairman of the UCT Choir for Africa
2009 - 2010	Deputy Head of Information Technology at Leo Marquard Residence
2008 - 2009	House Comm Maintenance Representative at Leo Marquard Residence
2006 - 2007	Senior Council Member of the Randfontein High School Prefects

PUBLICATIONS

Journal Paper

“Simulating the Characteristics of Tropical Cyclones over the South West Indian Ocean using an adaptive stretched-grid Global Climate Model. ”

Book Chapter

“Experiences with Threat Modeling on a Prototype Social Network” (2014)- *Information Security in Diverse Computing Environments*. Edition: 1st, Chapter: 14, Publisher: Information Science Reference (an imprint of IGI Global), Editors: Anne Kayem, Christoph Meinel, pp.261-279.

TECHNICAL SKILLS

- Numerical Weather Forecasting
- Academic and Technical Writing
- Climate Modelling Software: FERRET, Numpy and Scipy, CDO, NCO, ParaView.
- Programming Languages: C++, FORTRAN, Python, Java, PHP, HTML5, JavaScript, CSS.
- Understanding of Object Orientated Programming and Design patterns.
- Understanding of data structures and algorithms.
- Databases: MYSQL, SQL
- Adobe Photoshop

MEMBERSHIP AFFILIATIONS AND INTERESTS

- Full Accreditation by the British Computer Society as a Chartered IT Professional
- Member of the South African Society for Atmospheric Sciences
- Member of the UCT Athletics Club (long distance running)
- Member of the UCT Hip Hop Club (Poet)

Title and Name	Position and institution	Email address	Contact Number
Dr Babatunde Abiodun	PhD Supervisor, University of Cape Town	babiodun@csag.uct.ac.za	+27 21 650 5737
Dr Arlindo Meque	Researcher, National Institute of Meteorology, Maputo, Mozambique	Arlindo.Meque@gmail.com	+258 82 472 6300
Dr Romaric Christel Odoulami	Researcher, Federal University of Technology, Akure, Nigeria	christound@gmail.com	+229 98 642 632 +229 63 213 102
Dr Anne Kayem	Senior Lecturer, Department of Computer Science, University of Cape Town	Anne.Kayem@uct.ac.za	+27 21 650 4313