

INNOCENTER MORAA AMIMA

I. PERSONAL DATA

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Nationality: Kenyan
Gender: Female

II. EDUCATION

2017- March 2018 Stellenbosch University, South Africa

I am currently pursuing a research Master's in Mathematics under the supervision of Dr. Gaston Mazandu. My focus has mainly been in applying statistical methods and developing mathematical models to analyse gene expression data to predict breast cancer marker genes and predict cytokine-mediated tumour-immune cell dynamics, respectively.

2015 – 2016 University of Ghana, Ghana.

I obtained a Master's in Mathematical Sciences from the University of Ghana in 2016. I was supervised by Prof. Precious Sibanda of University of Kwa Zulu Natal and Dr. Joseph Malinzi of University of Pretoria on a project titled, cancer dormancy: modelling tumour-immune interactions. I attained a Good Pass, which is an equivalent of 2:1.

2010 – 2014 Jomo Kenyatta University of Agriculture and Technology, Kenya.

I hold a Bachelor of Science degree in Mathematics and Computer Science with a major in Statistics. I attained a Upper Second-Class Honours, an equivalent of 2:1.

III. SUMMARY OF TECHNICAL AND SPECIALIZED SKILLS

I have knowledge, experience and proficiency in software such as R, Python, Sagemath, MATLAB, ML-Win, SPSS, MS Excel, LaTeX, PowerPoint and MS Word. I have a passion for data science and machine learning. I am competent in formulating hypothesis and applying statistical methods that have been developed to answer cancer research questions.

IV. SUMMARY OF WORK & RESEARCH EXPERIENCE

2015 Personal assistant to the chief information officer (CIO), East Africa, Standard Chartered Bank Ltd.

I was in charge of organizing departmental meetings, preparing weekly dashboards and reports for departmental meetings. I worked closely with the business planning manager to analyse and compile performance reports of the businesses in Kenya, Tanzania and Uganda. I worked on a project to identify redundant positions within the bank and departments that required more headcount. Due to my interest in research, I resigned from the organization for further studies.

2014 - 2015 IT support analyst, Standard Chartered Bank Ltd.

I analysed user system logs to determine the cause of delayed responses to client queries. From the analysis, we identified the cause of delays within the IT help desk and other

departments within the Global Technology Operations (GTO) unit. This led to timely responses of client queries.

2014 Research assistant, Kenya National Bureau of Statistics.

I worked as a research assistant during the Informal Cross Border Trade (ICBT) survey 2014. The objective of the survey was to investigate and identify the direction of trade between Kenya and Tanzania. I was involved in data collection, data entry and cleaning.

2013 Data analyst intern, Kenya National Bureau of Statistics.

As an intern at the Tourism and Migration Directorate, I was tasked with performing data entry and verification of questionnaires from surveys, determining monthly estimates of tourists arriving in Kenya by analysing data collected from various tourist hotels and entry border points using IBM SPSS software.

V. WORKSHOPS, CONFERENCES & TRAINING ATTENDED

2017

- 1) Deep Learning Indaba, Witwatersrand University, South Africa.
- 2) 1st Big Data Africa Summer School, Square Kilometre Array (SKA) South Africa.
- 3) 7th Kenya Medical Research Institute Annual Scientific and Health Conference, Kenya.

2016

- 4) International School on Dynamical Systems in Biomedical Sciences (ISDS), Strathmore University, Kenya.
- 5) Mathematical Modelling and Its Applications to Science, Engineering, Epidemiology and Agriculture, Landmark University, Nigeria.

2015

- 6) Professional Entrepreneurship and Business Skills, African Institute for Mathematical Sciences, Ghana.
- 7) Fraud, Risk and Banking laws practices, Standard Chartered Bank, Kenya.

2012

- 8) Certificate in Statistical Package for the Social Sciences (IBM SPSS), Jomo Kenyatta University, Kenya.

VI. SCHOLARSHIPS AND GRANTS

- 1) African Institute for Mathematical Sciences (AIMS) Master's award, 2017.
- 2) International Development Research Centre (IDRC), 2017
- 3) Mastercard Foundation Scholarship, 2015.

VII. VOLUNTEERING POSITIONS

1. Data analytics tutor at the African Institute for Mathematical Sciences (AIMS), 2017.
2. Marshall and help desk assistant during the National Science Week at the Oliver Tambo community hall in Khayelitsha, Cape Town, South Africa 2017.
3. Project management and entrepreneurship tutor at the National Vocational Institute, Biriwa, Ghana, 2016.