

Education

- 2016–present **PhD, Mathematics and Statistics, University of Ottawa, Ottawa.**
Scope: Statistical genetics, Population genetics
Publication: Comparison of mixed model based approaches for correcting for population substructure with application to extreme phenotype sampling.
- 2014–2015 : **Master of Science, Mathematical Sciences, African Institute for Mathematical Sciences, Accra, Ghana.**
Scope: Biostatistics, Computational Biology and Bioinformatics
Thesis: The use of semantic similarity measures to search for drug therapy against Ebola. A study on the use of computational drug repositioning measures to obtain other uses for already existing drugs
- 2013–2014: **Master of Science, Statistics, University of Ilorin, Ilorin, Nigeria.**
Scope: Biostatistics, Survival Analysis
Thesis: On the comparison of some distributions in Survival analysis A review of the behaviour of some life time distributions in predicting the survival times of a number of cancer patients.
- 2006–2011 : **Bachelor of Technology, Mathematics and Computer Science, Federal University of Technology, Minna, Nigeria.**
Scope: Mathematical modelling, ordinary differential equations
Thesis: On the evaluation of small and medium scale enterprises. A statistical analysis of the need for government intervention in small and medium scale enterprises.

Research Experience

University of Ottawa, ON Canada

- Sept, 2018 – present – ***Correction of Population stratification in Extreme Phenotype Sampling.***
Developing a linear mixed effects model to correct for the effects of population stratification in population genetic studies
Advisor : **Dr. Kelly Burkett**, Associate Professor, Department of Mathematics & Statistics, University of Ottawa
[African Institute for Mathematical sciences in collaboration with the University of Cape Coast](#)
- Aug 2015 – Jul 2016 – ***Analysis of tuberculosis disease-drug target association for drug repositioning at the systems level.***
The study was aimed at predicting optimal drugs for tuberculosis therapy using approved drugs and clinical molecules by analysing drug-target-disease associations from high-throughput data.
Advisor : **Dr. Gaston Mazandu (late)**, Professor, Division of Human Genetics, Department of Pathology, University of Cape (UCT), South Africa
- Aug 2014 – Jun 2015 – ***The use of Semantic Similarity based approaches in the search for drug therapy against Ebola.***
Analyzing different modalities of genes like gene expression profiles, protein 3D structure, underlying amino acid sequence using popular deep learning models to obtain deeper insight into the underlying biological system.
Advisor : **Dr. Gaston Mazandu (late)**, Professor, Division of Human Genetics, Department of Pathology, University of Cape (UCT), South Africa

Scholarships & Awards

2016 – 2019 **QES Scholar Award**

Receipt of **Queen Elizabeth Diamond Jubilee II scholarship** for doctoral studies at the University of Ottawa

2014 – 2016 **African Institute for Mathematical Sciences (Ghana)** fully funded scholarship to study for a structured masters in Mathematical Sciences.

Computer skills

Programming Languages R, Python

Others Latex, Wordpress, SQL

Position of Responsibility

2016-2020 **Vice President (Finance)**, Mathematics and Statistics Graduate student association .

July 1-5, 2019 **Co-Organizer, Ottawa Mathematics Conference**, Ottawa.

Some Teaching Assistantship Positions

Fall, 2016 **MAT 1341: Introduction to Linear Algebra.**

Spring, 2017 **MAT 1302: Mathematical Methods II.**

Fall, 2018 **MAT 1320: Calculus 1.**

Winter, 2019 **MAT 1322: Calculus II.**

Summer, 2019 **MAT 2379: Introduction to Biostatistics.**

Fall, 2019 **MAT 1320: Calculus II.**

Referees

Dr. Kelly Burkett

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