

Zenabu Suboi

3 Bakker Street
Idas Valley, Stellenbosch - South Africa
(+27) 786-071982 / (+233) 556-865272
Email: zenabu@sun.ac.za / zenabu@aims.ac.za

EDUCATION	<i>Master of Science</i> , Mathematics Stellenbosch University, Stellenbosch - South Africa	Expected October 2020
	<i>Master of Science</i> , Mathematical Science African Institute for Mathematical Sciences (AIMS) University of Capetown, Cape Town - South Africa	June 2018
	<i>Bachelor of Science</i> , Mathematical Science University for Development Studies, Tamale - Ghana Major: Statistics Minor: Mathematics	July 2016
MASTERS THESIS 2	Title - A Comparison of Methods for Approximate Bayesian Computation (ABC), Expected October 2020 Supervisor 1 - Dr. Christijan Marijn Hazelbag, Researcher, SACEMA Supervisor 2 - Prof. Wim Delva, Researcher, Stellenbosch University Description - We compared performance of two methods for ABC (Rejection and Sequential) in a simple SIR and Individual based model(IBM) simulation settings, where Rejection ABC with a reasonably small tolerance was used as the reference.	
MASTERS THESIS 1	Title - Comparing Post-sampling correction Methods for Approximate Bayesian Computation (ABC), June 2018 Supervisor 1 - Dr. Christijan Marijn Hazelbag, Researcher, SACEMA Supervisor 2 - Prof. Wim Delva, Researcher, Stellenbosch University Description - We compared performance of different post-sampling correction methods (Local linear and Neuralnet) with Rejection ABC with a small tolerance and no correction in a simple SIR model simulation setting, where Likelihood estimation was used as the gold standard.	
UNDER- GRADUATE THESIS	Title - Size Biased Exponential Distribution Supervisor - Dr. Nasiru Suleman, Lecturer, University for Development Studies-Ghana Description - We proposed a size biased exponential distribution using weighted distributions.	
HONORS AND AWARDS	<ul style="list-style-type: none">Overall Best Graduating Female in the Faculty of Mathematical Sciences 2016 University for Development Studies-GhanaAlumni award for Best Graduating Female Student University for Development Studies-Ghana	2016

WORKSHOPS

- Introduction to R: Management, Exploration, and Communication of Data 12 - 16 August 2019
Stellenbosch University , Stellenbosch - South Africa
Description - Aimed at equipping participants on how to manage and explore data using tidyverse.
- Academic Writing: Literature Reviews 26 - 27 June 2019
Stellenbosch University , Stellenbosch - South Africa
Description - Aimed at postgraduate students writing their literature reviews – whether as part of a research proposal, a thesis, or as an independent article.
- Clinic on Meaningful Modeling of Epidemiological Data (MMED) May 27 - June 7, 2019
Muizenberg, Cape Town - South Africa
Description - The clinic focused on training junior researchers from the US and Africa to conduct integrative research in infectious disease dynamics and to communicate our questions, methods, and findings across disciplinary boundaries.
- Mathematical Modelling OF Infectious Diseases (MMID) 6 - 17 May 2019
University of Cape Town , Cape Town - South Africa
Description - Application of mathematical modelling and computer simulation to predict the dynamics of infectious diseases to evaluate the potential impact of policy in reducing morbidity and mortality.

COMPUTER SKILLS

Microsoft Office, LaTeX
SPSS, R
SAGE 7.4, iPython

EXPERIENCE

Teaching Experience

Tutor February - June 2018
GrandWest Kulani High Saturday Maths Project, AIMS-SA

- Tutored High School students in mathematics under the African Institute for Mathematical Sciences (AIMS-South Africa) Schools Enrichment Centre.

Teaching Assistant September 2016-August 2017
University for Development Studies , Statistics Department, Navrongo, Ghana

- Handled tutorial lessons on Experimental Design in statistics.
- Assisted lecturers in conducting examinations and grading students.
- Assisted some students with their thesis.

Teacher and Form Mistress September 2011-August 2012
Abusco Royal School, Obuasi, Ghana

- Taught primary six students for a whole academic year.
- Conducted end of term examinations and graded them.

Field Work

Internship May 2015-July 2015
Seventh Day Adventist Hospital, Obuasi, Ghana.

- Understudied the biostatistician in the biostatistics unit.

- Handled patients' confidential data

Third Trimester Field Practical Programme

2013-2014

- Stayed in rural community for three months and mingled with the inhabitants in each year.
- Identified its most pressing needs and presented a budget of it to the municipal assembly.

Leadership Experience

Welfare Secretary

May 2019 to date

Association of Ghanaian Students in Stellenbosch University (AGSSU), Stellenbosch University, Stellenbosch, South Africa.

- Worked with other executives as a team.
- Saw to the welfare of Colleague students

President

March 2015-March 2016

National Union of Baptist Students, University for Development Studies, Navrongo, Ghana.

- Worked together with the group as a team.
- Took final decisions on behalf of the group
- Implemented ideas of the people
- Represented the group at the Students christian council.

COMMUNITY SERVICE

GrandWest Kulani High Saturday Maths Project, AIMS-SA February - June 2018
We volunteered to tutor students in mathematics under the African Institute for Mathematical Sciences (AIMS-South Africa) Schools Enrichment Centre.

Participated in community visits

2015-2016

We visited and gave out clothes and other materials to the needy in the deprived communities for Christmas in December each year.

LANGUAGES

English - Proficient

Dagaare - Fluent

Akan - Fluent

REFEREES

- Dr. Marijn C. Hazelbag, Researcher, DST-NRF South African Centre of Excellence in Epidemiological Modeling and Analysis (SACEMA), Stellenbosch University
Email - marijnhazelbag@sun.ac.za
- Prof. Jeff Sanders, Academic Director, African Institute for Mathematical Sciences
Email - jsanders@aims.ac.za
- Dr. Nasiru Suleman, Lecturer, University for Development Studies-Ghana
Email - sulemanstat@gmail.com