

Lamin Juwara

Personal information

Nationality Gambian

Education

- 2016–2018 **MSc. Biostatistics**, *McGill University*, Canada.
 ◦ MasterCard Foundation Scholar
- 2015–2016 **MSc. Mathematical Sciences**, *AIMS-SA, Stellenbosch University*, South Africa.
 ◦ Cum Laude
 ◦ The Martin Rees Scholarship (AIMS academic award)
- 2011–2015 **BSc. Mathematics (Hons)**, *Kwame Nkrumah University of Science and Tech.*, Ghana.
 ◦ First Class Honours
 ◦ Best graduating students, Department of Mathematics.

Work Experience

- 2017 - Present **Research Assistant**, MCGILL UNIVERSITY.
 ◦ Privacy-preserving data analysis
- Summer 2017 **Visiting Research Scholar**, SOUTH AFRICAN CENTRE FOR EPIDEMIOLOGICAL MOD-
ELLING AND ANALYSIS.
 ◦ Developed web based applications for HIV incidence estimation (UNAIDS project)
 ◦ Statistical Computing
- 2007–2008 **Medical Laboratory Technician**, MEDICAL RESEARCH COUNCIL, The Gambia.
 Molecular Biology Lab:
 ◦ Genomic DNA isolation and quantification.
 ◦ PCR protocols (e.g. multiplex PCR.)
 ◦ Purification and sequencing of PCR products.
 ◦ *Analysis* of bacterial DNA *sequence data* for allelic and sequence type determination.

Miscellaneous

- 2013–2015 **Mathematics Tutor**, KNUST - GHANA.
 International Students Association (ISA) Mathematics Tutor. KNUST

Courses, McGill University

- Completed ^[1,2] Mathematical Statistics 1 & 2 • ^[3,4,5] Regression and Analysis of Variance; Gener-
alized Linear Models; Advanced Generalized Linear Models • ^[6] Data Analysis &
Report Writing • ^[7,8] Epidemiology 1: Intro & Statistical Models; Epidemiology 2:
Regression Models • ^[9,10,11,12] Special topics courses: Grouped data analysis and Data
privacy; Statistical computing; Simulation of processes; Dynamical modelling.

In progress [13] Causal Inference Methods

Research Project, McGill University

Title *Virtual Pooling as a Privacy-preserving Analysis Tool*

Supervisor(s) Dr. Paramita Saha-Chaudhuri & Dr. Alexandra M Schmidt

Description In this study, we explore the application of specimen pooling as a privacy-preserving tool for estimating hazard ratio (HR) of a covariate for a time to event outcome. By utilizing the equivalence between the Cox Proportional Hazards model and conditional logistic model, we estimate the HRs using only the aggregate covariates which are shown to be similar to individual level (unpooled) covariate effect estimates.

Research Project, Stellenbosch University

Title *Reverse-engineering T-cell proliferation dynamics* ([see abstract](#))

Supervisor Dr. Wilfred Ndifon

BSc Mathematics (Hons) thesis

Title *Representation Theory of Finite Groups*

Supervisor Dr. Richard Kena Boadi

Computer skills

Advanced R, PYTHON, L^AT_EX, MATLAB, OpenOffice, Linux, Microsoft Windows
Intermediate HTML, Visual Basics, SPSS

Oral & Poster Presentations

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Awards/Scholarships

2016-2018 MasterCard Foundation Scholarship, McGill University
2016 The Martin Rees Scholarship, AIMS South Africa
2015-2016 African Institute for Mathematical Sciences Postgraduate Scholarship

Languages

Official **English**
Other **Mandingo, Wollof, Arabic**

Fluent

References

Dr. Erica E. M. Moodie

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Dr. Paramita Saha Chaudhuri

Assistant Professor, Biostatistics
Department of Epidemiology, Biostatistics, & Occupational Health McGill University
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Telephone: +(1) 514.398-7518

Dr. Wilfred Ndifon

AIMS, South Africa.
IDRC Joint Career Development Chair Biomathematics.
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Dr. Gerard Morris

West Midlands Regional Genetics Laboratory, Birmingham, UK.
Higher Specialist Clinical Geneticist.
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