

# Lamin Juwara

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## Personal information

Nationality    Gambian

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## 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.

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## Work Experience

2017 - Present    **Research Assistant**, MCGILL UNIVERSITY.

- Privacy-preserving data analysis

Summer 2017    **Visiting Research Scholar**, SOUTH AFRICAN CENTRE FOR EPIDEMIOLOGICAL MODELLING AND ANALYSIS.

- Developed web based applications for HIV incidence estimation (UNAIDS project)
- Statistical Computing

2007–2010    **Medical Laboratory Technician**, MEDICAL RESEARCH COUNCIL, UK, Gambia Unit.

### Molecular Biology Techniques:

- 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.

### Special Skills:

- Trained Undergraduate Students in a Laboratory setting.
- Versatile between different Laboratory Settings.

### Miscellaneous

2013–2015    **Mathematics Tutor**, KNUST - GHANA.

International Students Association (ISA) Mathematics Tutor. KNUST

*Department of Biostatistics – McGill University, Canada*

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## Courses, McGill University

Completed [1,2] Mathematical Statistics 1 & 2 • [3,4,5] Regression and Analysis of Variance; Generalized 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

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## Research Project, McGill University

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

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

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## Research Project, Stellenbosch University

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

Supervisor Dr. Wilfred Ndifon

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## BSc Mathematics (Hons) thesis

Title *Representation Theory of Finite Groups*

Supervisor Dr. Richard Kena Boadi

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## Awards

2016-2018 MasterCard Foundation Scholarship, McGill University (\$38,000/year)

2016 The Martin Rees Scholarship, AIMS - South Africa

2015-2016 African Institute for Mathematical Sciences Postgraduate Scholarship (\$10,000)

2015 Turkish Government Postgraduate Scholarship - Declined

2011-2015 FAM Engineering Undergraduate Scholarship, KNUST ( \$9,500/year)

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## Computer skills

Advanced R, PYTHON, L<sup>A</sup>T<sub>E</sub>X, MATLAB, OpenOffice, Linux, Microsoft Windows

Intermediate HTML, Visual Basics, SPSS

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## Languages

Official **English**

*Fluent*

Other **Mandingo, Wollof, Arabic**

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## References

**Dr. Erica E. M. Moodie**

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Department of Epidemiology, Biostatistics, & Occupational Health McGill University  
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**Dr. Paramita Saha Chaudhuri**

Assistant Professor, Biostatistics  
Department of Epidemiology, Biostatistics, & Occupational Health McGill University  
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**Dr. Wilfred Ndifon**

AIMS, South Africa.  
IDRC Joint Career Development Chair Biomathematics.  
email: wndifon@aims.ac.za

**Dr. Gerard Morris**

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