Lamin Juwara

Education

2018–Present **PhD. Quantitative Life Sciences**, *McGill University*, Canada.
Title *Efficient design and prediction for Parkinson's disease using novel biomarkers*
Advisor(s) Dr. Paramita Saha-Chaudhuri

2016–2018 **MSc. Biostatistics**, *McGill University*, Canada.
Title *Virtual Pooling as a Privacy-preserving Analysis Tool*
Supervisor(s) Dr. Paramita Saha-Chaudhuri & Dr. Alexandra M Schmidt

2015–2016 **MSc. Mathematics**, *AIMS-SA, Stellenbosch University*, South Africa.
Title *Reverse-engineering T-cell proliferation dynamics*
Supervisor Dr. Wilfred Ndifon

2011–2015 **BSc. Mathematics (Hons)**, *Kwame Nkrumah University of Science and Tech.*, Ghana.
Title *Representation Theory of Finite Groups*
Supervisor Dr. Richard Kena Boadi

Publications

1. Cressatti M, Juwara L, Galindez JL, ... Schipper HM (2019). Salivary miR-153 and miR-223 levels as diagnostic biomarkers of idiopathic Parkinson disease. Movement disorders.
2. Juwara L, Boateng J (2019). Assessing the effects of exposure to sulfuric acid aerosol on respiratory function in adults. Preprint arXiv: 1906.04296
3. Juwara L, Saha-Chaudhuri P, . . ., Velly A (2019+). Predicting neuropathic pain after breast cancer surgery using machine learning. Submitted
4. Saha-Chaudhuri P, Juwara L. Survival Analysis under the Cox Proportional Hazards model with Pooled Covariates (2019+). In revision.

Work Experience

09/2017 - Present **Research Assistant**, Jewish General Hospital.
- Statistical modelling | data analysis | data privacy

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

2007–2008 **Medical Laboratory Technician**, Medical Research Council, The Gambia.
- Genomic DNA isolation, PCR protocols (e.g. multiplex PCR.) and sequencing

Miscellaneous

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

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Awards/Scholarships

2018-2021 Mitacs Accelerate Fellowship
2016-2018 MasterCard Foundation Scholarship, McGill University
2016 The Martin Rees Scholarship, AIMS South Africa
2015-2016 African Institute for Mathematical Sciences Postgraduate Scholarship
June, 2015 Best graduating students, Department of Mathematics, KNUST

Computer skills

Advanced R, python, MatLab, LaTeX, Linux, and Office suites
Intermediate HTML, Visual Basics, SPSS, SAS

Oral & Poster Presentations

09/2019 Poster Presentation at QLS annual research meeting in Montreal
06/2018 Poster Presentation at the Statictical Society of Canada annual meeting in Montreal
03/2018 Poster Presentation at the annual EBOSS Research Day
01/2018 Poster Presentation at the ISPE mid-year meeting in Toronto
10/2017 Oral Presentation at the Biostatistics seminar series

Languages

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

References

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Dr. Wilfred Ndifon
AIMS, South Africa.
IDRC Joint Career Development Chair Biomathemtics.
email: wndifon@aims.ac.za

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