

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. Saha-Chaudhuri P, [Juwara L](#) (2020+). Survival Analysis under the Cox Proportional Hazards model with Pooled Covariates. In revision.
2. Cressatti M, Galindez JL, [Juwara L](#), ... Schipper HM (2020). Characterization and heme oxygenase?1 content of extracellular vesicles in human biofluids. *Journal of Neurochemistry*. [link]
3. [Juwara L](#), ..., Saha-Chaudhuri P, Velly A (2020). Predicting neuropathic pain after breast cancer surgery using machine learning. *International Journal of Medical Informatics*. [link]
4. 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*. [link]
5. Grebe E, McIntosh A.; [Juwara L](#), ..., Welte A (2019). Incidence estimation tools (inctools). *UNAIDS tools*. [link]
6. [Juwara L](#), Boateng J (2019). Assessing the effects of exposure to sulfuric acid aerosol on respiratory function in adults. Preprint arXiv: 1906.04296 [link]
7. Eaton J, Grebe E, Welte A, [Juwara L](#), Ongarello S (2018). Prevalence and Incidence Calculator: Calculates HIV incidence from prevalence survey data that include biomarkers of recent infection. *UNAIDS tools* [link]

Work Experience

09/2017–Now **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

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 student, Department of Mathematics, KNUST

Computer skills

Advanced R, python, MatLab, \LaTeX , Linux, and Office suites

Intermediate HTML, Visual Basics, SPSS, SAS

Oral & Poster Presentations

03/2020 Poster Presentation on Privacy-Preserving Outcome Prediction at ENAR 2020 Spring Meeting [\[link\]](#)

09/2019 Poster Presentation at QLS annual research meeting in Montreal

06/2018 Poster Presentation at the Statistical Society of Canada annual meeting in Montreal

03/2018 Poster Presentation at the annual EBOSS Research Day [\[link\]](#)

01/2018 Poster Presentation at the ISPE mid-year meeting in Toronto

10/2017 Oral Presentation at the Biostatistics seminar series, McGill. [\[link\]](#)

Languages

Official **English**

Fluent

Other **Mandingo, Wollof, Arabic**

References

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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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