

## 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. Juwara L, Saha-Chaudhuri P, . . ., Velly A (2020+). Predicting neuropathic pain after breast cancer surgery using machine learning. Submitted
2. Saha-Chaudhuri P, Juwara L (2020+). Survival Analysis under the Cox Proportional Hazards model with Pooled Covariates. In revision.
3. 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]
4. Grebe E, McIntosh A.; Juwara L, ..., Welte A (2019). Incidence estimation tools (inctools). *UNAIDS tools*. [link]
5. Juwara L, Boateng J (2019). Assessing the effects of exposure to sulfuric acid aerosol on respiratory function in adults. Preprint arXiv: 1906.04296 [link]
6. 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

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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

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## Computer skills

- Advanced R, python, MatLab,  $\text{\LaTeX}$ , Linux, and Office suites  
Intermediate HTML, Visual Basics, SPSS, SAS

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## Oral & Poster Presentations

- 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  
01/2018 Poster Presentation at the ISPE mid-year meeting in Toronto  
10/2017 Oral Presentation at the Biostatistics seminar series

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## Languages

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

*Fluent*

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## References

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

Biostatistics Graduate Program Director  
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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.  
email: dr.gerard.morris@cantab.net  
Telephone: 0121 472 1377