

## Education

2018–Present **PhD. Quantitative Life Sciences**, *McGill University*, Canada.

Title *Privacy-preserving data disclosure and analysis*

Advisors Dr Paramita Saha-Chaudhuri, Prof Yi Yang, and Dr Ana Velly

2016–2018 **MSc. Biostatistics**, *McGill University*, Canada.

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

Supervisors Dr Paramita Saha-Chaudhuri and 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

## Research Output

1. Saha-Chaudhuri P, [Juwara L](#) (2020). Survival Analysis under the Cox Proportional Hazards model with Pooled Covariates. *Statistics in Medicine*. [link]
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

01/2019– **Statistician**, iMD Research Inc.

present ○ Statistical modelling of biomedical data

09/2017– **Research Assistant**, Jewish General Hospital.

01/2019 ○ Statistical Computing | 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)

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 (Full coverage)  
2016 The Martin Rees Scholarship, AIMS South Africa (Certificate for academic excellence)  
2015-2016 African Institute for Mathematical Sciences (AIMS) Postgraduate Scholarship (Full coverage)  
June, 2015 Best graduating student, Department of Mathematics, KNUST Ghana (Highest CWA, class size - 140)

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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

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 Statistician Society of Canada annual meeting in Montreal  
03/2018 Poster Presentation at the annual EBOSS Research Day [link] (Best Poster Award)  
01/2018 Poster Presentation at the ISPE mid-year meeting in Toronto (Travel Award)  
10/2017 Oral Presentation at the Biostatistics seminar series, McGill. [link]

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## Languages

Official English  
Other Mandingo, Wolof, Arabic

*Fluent*

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## References

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Department of Epidemiology, Biostatistics, & Occupational Health McGill University  
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### **Dr. Erica E. M. Moodie**

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### **Dr. Wilfred Ndifon**

AIMS Network Research Director & Professor of Theoretical Biology.  
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### **Dr. Gerard Morris**

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