Lamin Juwara

Title	PhD. Statistical and Computational Biology Stream, QLS , McGill University, Canada. Privacy-preserving regression methods for distributed data Dr Paramita Saha-Chaudhuri, Prof Yi Yang, and Dr Ana Velly
Title	MSc. Biostatistics, McGill University, Canada. Virtual Pooling as a Privacy-preserving Analysis Tool Dr Paramita Saha-Chaudhuri and Dr Alexandra M Schmidt
Title	MSc. Mathematics, AIMS, Stellenbosch University, South Africa. Reverse-engineering T-cell proliferation dynamics Dr Wilfred Ndifon
Title	BSc. Mathematics (Hons) , Kwame Nkrumah University of Science and Tech., Ghana. Representation Theory of Finite Groups Dr Richard Kena Boadi
	Work Experience
01/2019-now	Biostatistician, iMD Research Inc. o Statistical modeling of epidemiological and biomedical data
	Research Assistant, Jewish General Hospital. o Statistical Computing and data analysis
Summer 2017	Visiting Research Scholar, South African Centre for Epidemiological Modelling and Analysis. o Developed web based applications for HIV incidence estimation (UNAIDS project)
	Miscellaneous
01/2020-	Math 324, McGill University.
	Graduate student assistant
2013-2015	Mathematics Tutor, KNUST, GHANA.
	Awards and Scholarships
2018-2022	Mitacs Accelerate Fellowship, McGill University (\$60,000)
2016-2018	MasterCard Foundation Scholarship, McGill University (>\$100,000)
July, 2016	The Martin Rees Scholarship, AIMS South Africa (Certificate of academic excellence, 1 of 4 categories
2015-2016	African Institute for Mathematical Sciences (AIMS) Postgraduate Scholarship (\$10,000)
June, 2015	Best graduating student, Department of Mathematics, KNUST Ghana (Highest CWA, class size - 140

Education

Computer skills

Advanced R, Python, MatLab, LTFX, Linux, and Office suites

Intermediate HTML, Visual Basics, SPSS, SAS

Selected articles

- 1. <u>Juwara L</u>, Saha-Chaudhuri P (2022). A Hybrid Covariate Microaggregation Approach for Privacy-Preserving Logistic Regression. Journal of Survey Statistics and Methodology. [accepted]
- 2. Galindez JL, <u>Juwara L</u>, ... Schipper HM (2021). Salivary Heme Oxygenase-I: A Potential Biomarker for Central Neurodegeneration. Journal of Central Nervous System Disease. [link]
- 3. Saha-Chaudhuri P, <u>Juwara L</u> (2021). Survival Analysis under the Cox Proportional Hazards model with Pooled Covariates. Statistics in Medicine. [link]
- 4. Cressatti M, Galindez JL, <u>Juwara L</u>, ... Schipper HM (2020). Characterization and heme oxygenase-1 content of extracellular vesicles in human biofluids. Journal of Neurochemistry. [link]
- 5. <u>Juwara L</u>, ..., Saha-Chaudhuri P, Velly A (2020). Predicting neuropathic pain after breast cancer surgery using machine learning. International Journal of Medical Informatics. [link]
- 6. Cressatti M, <u>Juwara L</u>, Galindez JL, ... Schipper HM (2020). Salivary miR-153 and miR-223 levels as diagnostic biomarkers of idiopathic Parkinson disease. Movement disorders. [link]

Peer reviewed abstracts (selected)

- 1. <u>Juwara L</u>, Yang Y, and Saha-Chaudhuri P. Improving the efficiency of meta-analysis estimators for privacy-preserving Cox regression. QLS Research Day, 2022. [*Oral presentation*]
- 2. <u>Juwara L</u>, Yang Y, and Saha-Chaudhuri P. Privacy-preserving Cox proportional hazards regression with aggregate covariates. Annual Canadian Statistics Student Conference, 2021. [Best poster prize, PhD category]
- 3. <u>Juwara L</u> and Saha-Chaudhuri P. Predictive modeling under data privacy restrictions. Statistical Society of Canada annual Conference, 2020.

[Travel award]

- 4. <u>Juwara L</u> and Saha-Chaudhuri P. Microaggregation as a Privacy-Preserving Analytical Tool for Analysis of Confidential Distributed Data. International Society of Pharmacoepidemiology mid-year meeting, 2018. [*Travel award*]
- 5. <u>Juwara L</u>, Schmidt A, and Saha-Chaudhuri P. Virtual Pooling as a Privacy-preserving Analysis Tool to Estimate Covariate Hazard Ratio (HR) of Cox Proportional Hazard Model. 14th Annual Student Research Day of the Department of Epidemiology, Biostatistics and Occupational Health, 2018.

 [Best poster award]

Software & other services

03/2021 Co-Reviewed an article for JMIR Medical Informatics (2021)

05/2019 Incidence estimation tools (UNAIDS tools). [link]

08/2018 Prevalence and Incidence Calculator: Calculates HIV incidence from prevalence survey data that include biomarkers of recent infection. UNAIDS [link]

2018-Now Maintain several R-Packages (e.g. [link]) and Web-based tools [link]

Dr. Paramita Saha Chaudhuri

Associate Professor of Statistics
Department of Mathematics and Statistics, University of Vermont email: SahaChaudhuri(DOT)work(AT)gmail(DOT)com
Telephone: +(I) 514.398-7518

Dr. Erica E. M. Moodie

William Dawson Scholar and Professor of Biostatistics

Department of Epidemiology, Biostatistics, & Occupational Health McGill University

email: erica.moodie@mcgill.ca

Telephone: +(1) 514.398-5520

Dr. Wilfred Ndifon

AIMS Network Research Director & Professor of Theoretical Biology.

AIMS NEI, Rwanda

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