Lamin Juwara

	Education
2018-Present	PhD. Quantitative Life Sciences, McGill University, Canada.
	Privacy-preserving analysis of biomedical data
	Dr Paramita Saha-Chaudhuri, Prof Yi Yang, and Dr Ana Velly
001/ 0010	
	MSc. Biostatistics, McGill University, Canada.
	Virtual Pooling as a Privacy-preserving Analysis Tool
Supervisors	Dr Paramita Saha-Chaudhuri and Dr Alexandra M Schmidt
2015-2016	MSc. Mathematics, African Institute for Mathematical Sciences, 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.
	Representation Theory of Finite Groups
	Dr Richard Kena Boadi
ouper visor	27 Adolal d Tollal Bodd.
	Work Experience
	•
	Statistician, iMD Research Inc. o Statistical modelling of biomedical data
•	•
01/2017-	Research Assistant, Jewish General Hospital. o Statistical Computing data analysis data privacy
	Visiting Research Scholar, South African Centre for Epidemiological Modelling and Analysis.
Julillier Zon	 Developed web based applications for HIV incidence estimation (UNAIDS project)
2007-2008	Medical Laboratory Technician, Medical Research Council, The Gambia.
	o Genomic DNA isolation, PCR protocols (e.g. multiplex PCR.) and sequencing
	Miscellaneous
01/2020-	Math 324, McGill University.
Present	Graduate student assistant
2013-2015	Mathematics Tutor, KNUST - GHANA.
	International Students Association (ISA) Mathematics Tutor. KNUST
	Awards and Scholarships
2018-2021	Mitacs Accelerate Fellowship (\$60,000)
2016-2018	MasterCard Foundation Scholarship, McGill University (\$100,000)
2016	The Martin Rees Scholarship, AIMS South Africa (Certificate for academic excellence)
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)

Computer skills

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

Intermediate HTML, Visual Basics, SPSS, SAS

Selected articles

- 1. Saha-Chaudhuri P, <u>Juwara L</u> (2020). Survival Analysis under the Cox Proportional Hazards model with Pooled Covariates. Statistics in Medicine. [link]
- 2. 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]
- 3. <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]
- 4. Cressatti M, <u>Juwara L</u>, 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.; <u>Juwara L</u>, ..., Welte A (2019). Incidence estimation tools (inctools). UNAIDS tools. [link]
- 6. <u>Juwara L</u>, 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, <u>Juwara L</u>, Ongarello S (2018). Prevalence and Incidence Calculator: Calculates HIV incidence from prevalence survey data that include biomarkers of recent infection. UNAIDS tools [link]

Peer reviewed abstracts

- 1. Galindez J, <u>Juwara L</u>, …, Velly AM. Evaluation of salivary Heme Oxygenese-1 as a potential biomarker of Parkinson's disease and neurodegenerative conditions. AD/PD 2021.
- 2. Cressatti M, Song W, <u>Juwara L</u>, ..., Schipper HM. Beyond the brain: Peripheral microRNA expression and Parkinson's disease. AD/PD 2021.
- 3. Juwara L. Privacy-Preserving Outcome Prediction. ENAR 2020.
- 4. Saha-Chaudhuri P and <u>Juwara L</u>. Survival Analysis under the Cox Proportional Hazards Model with Pooled Covariates. ENAR 2020.
- 5. <u>Juwara L</u> and Saha-Chaudhuri P. Predictive modeling under data privacy restrictions. SSC Conference, 2020. *Travel Award*
- Juwara L, 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. Statistical Society of Canada Annual Meeting, 2018.
- 7. <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*
- 8. <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*

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 Statictical 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]

Dr. Paramita Saha Chaudhuri

Assistant Professor

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