# Lamin Juwara

T 1		, .	
H.C	11	cation	ì

2018-Present PhD. Quantitative Life Sciences, McGill University, Canada. Title Privacy-preserving analysis of biomedical data 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 Nkrumab University of Science and Tech., Ghana. Title Representation Theory of Finite Groups Supervisor Dr Richard Kena Boadi Work Experience 01/2019- Statistician, iMD Research Inc. present o Statistical modelling of biomedical data 09/2017- Research Assistant, Jewish General Hospital. 01/2019 O Statistical Computing | data analysis | data privacy Summer 2017 Visiting Research Scholar, South African Centre for Epidemiological Modelling and Analysis. o 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)

June, 2015 Best graduating student, Department of Mathematics, KNUST Ghana (Highest CWA, class size - 140)

2015-2016 African Institute for Mathematical Sciences (AIMS) Postgraduate Scholarship (\$10,000)

## Computer skills

Advanced R, Python, MatLab, LTEX, 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] (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]

## 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