Lamin Juwara

	Education
	PhD. Quantitative Life Sciences, McGill University, Canada.
	Privacy-preserving analysis of biomedical data
	Dr Paramita Saha-Chaudhuri, Prof Yi Yang, and Dr Ana Velly
2014 2019	MC - P:
	MSc. Biostatistics, McGill University, Canada. Virtual Pooling as a Privacy-preserving Analysis Tool
	Dr Paramita Saha-Chaudhuri and Dr Alexandra M Schmidt
Super visors	Di Farannea Sana Shadanari and Di Facaanara 11 Schinidi
2015-2016	MSc. Mathematics, AIMS, 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
Supervisor	Dr Richard Kena Boadi
	Work Experience
	Statistician, iMD Research Inc.
	Statistical modelling of biomedical data
_	Research Assistant, Jewish General Hospital.
	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)
2007-2008	
	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.
	Awards and Scholarships
2018-2021	*
	Mitacs Accelerate Fellowship (\$60,000) Mactar Card Foundation Scholarship McCill University (\$100,000)
2016-2018	MasterCard Foundation Scholarship, McGill University (\$100,000)
2016	The Martin Rees Scholarship, AIMS South Africa (Certificate of academic excellence)
	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, 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. <u>Juwara L</u>. 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 Statistical 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]

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Dr. Wilfred Ndifon

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Higher Specialist Clinical Geneticist.
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