	Curriculum Vitae: Lamin Juwara
	Education
2018-2022	PhD. Computational Statistics Stream, Quantitative Life Sciences, McGill University
Thesis	Privacy-preserving regression methods for distributed biomedical data
Advisors	Dr Paramita Saha-Chaudhuri and Prof Archer Yi Yang
2016-2018	MSc. Biostatistics, McGill University, Canada
Thesis	Virtual Pooling as a Privacy-preserving Analysis Tool
Supervisor	Dr Paramita Saha-Chaudhuri
2015-2016	MSc. Mathematics, Stellenbosch University, South Africa
Thesis	Reverse-engineering T-cell proliferation dynamics
Supervisor	Dr Wilfred Ndifon
2011-2015	BSc. Mathematics (Hons), Kwame Nkrumah University of Science and Technology, Ghana
Thesis	Representation Theory of Finite Groups
Supervisor	Dr Richard Kena Boadi
	Work Experience
07/22-Now	<b>Postdoctoral Research Associate</b> , Electronic Health Information Laboratory, University of Ottawa Opplication of machine learning methods to synthetic data generation.
01/19-06/22	Biostatistician, iMD Research Inc, Montreal QC  O Study design, data analysis, and report writing.
01/20-04/21	<ul> <li>Graduate Teaching Assistant in Statistics, Math 324, McGill University</li> <li>Sampling distributions, point and interval estimation, hypothesis testing, analysis of variance, contingency tables, nonparametric inference, regression, Bayesian inference.</li> </ul>
09/17-01/19	<ul><li>Data Analyst, Lady Davis Institute at the Jewish General Hospital , Montreal QC</li><li>Study design, analysis, and report writing.</li></ul>
Summer 2017	<ul> <li>Visiting Research Scholar, South African Centre for Epidemiological Modelling and Analysis</li> <li>Developed web based applications for HIV incidence estimation (UNAIDS project)</li> <li>R Shiny Framework</li> </ul>
	Scholarships, Awards, & Prizes
June, 2021	Best poster prize, PhD category. The Ninth Canadian Statistics Student Conference
2019-2022	Graduate Excellence Award, Quantitative Life Sciences, McGill University ( $\$13,500\times3$ )
2018-2022	Mitacs Accelerate Fellowship, McGill University (\$80,000)
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# Feb., 2018 Best poster prize, 14th Annual Student Research Day of the Department of Epidemiology, Biostatistics and Occupational Health. McGill University. 2016-2018 MasterCard Foundation Scholarship, McGill University (>\$100,000) July, 2016 The Martin Rees Fellowship for Academic Excellence at AIMS South Africa Graduation, Stellenbosch. 2015-2016 African Institute for Mathematical Sciences (AIMS) Postgraduate Scholarship (\$10,000) June, 2015 Best graduating student, Department of Mathematics, KNUST Ghana (Rank: 1/140).

## 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. [link]
- 2. Saha-Chaudhuri P, <u>Juwara L</u> (2021). Survival Analysis under the Cox Proportional Hazards model with Pooled Covariates. Statistics in Medicine. [link]
- 3. 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]
- 4. <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]
- 5. 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 boster brize, 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*]
- Juwara L 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

- 05/2022 Reviewer for Journal of Survey Statistics and Methodology (×1) & JMIR AI (×1)
- 03/2021 Co-Reviewer for JMIR Medical Informatics (×1)
- 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]

## Computer skills

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

Intermediate HTML, Visual Basics, and SPSS.

## Dr. Paramita Saha-Chaudhuri

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## Prof. Archer Yi Yang

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#### Dr. Wilfred Ndifon

AIMS Network Research Director & Professor of Theoretical Biology.

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