Priyonto Saha

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EDUCATION

McGill University

September 2025 – Present

Doctor of Philosophy in Biostatistics

Thesis: TBD

Supervised by Dr. Erica Moodie

• University of Toronto, Dalla Lana School of Public Health

September 2023 – October 2025

Master of Science in Biostatistics – Data Science and Artificial Intelligence Option

Thesis: Propensity score weighting for clustered time-to-event data with dependent right-censoring

Supervised by Dr. Kuan Liu

• University of Waterloo

September 2018 – October 2023

Honours Bachelor of Mathematics with Distinction, Co-operative Program

Triple Major in Biostatistics, Computational Mathematics, and Combinatorics & Optimization

PUBLICATIONS AND PRESENTATIONS

C = CONFERENCE, J = PEER-REVIEWED JOURNAL, P = PREPRINT

- [C] Saha, P., Liu K. (2025) Causal inference for observational studies with clustered survival outcomes subject to right-censoring. 2025 *Joint Statistical Meetings*, August 2 7, Nashville, Tennessee, United States of America.
- [C] Saha, P., Liu K. (2025) A Causal Survival Analysis Approach for Multi-Level Health Data. 2025 Statistical Society of Canada (SSC) Annual Meeting, May 25 28, Saskatoon, Saskatchewan, Canada.
- [C] Saha, P., Marouf Y., Pozzebon H., et al. (2024). Predicting Time to Diabetes Diagnosis Using Random Survival Forests. 46th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, p. 70. July 15 19, Orlando, Florida, United States of America.
- [C] Saha, P. (2024). Using Multi-Level Collaborative Learning to Investigate Long COVID Causality. 2024 SORA-TABA Annual Workshop & DLSPH Biostatistics Research Day, May 13, Toronto, Ontario, Canada.
- [C] Saha, P. (2024). Equitable Long COVID Characterization at a Global Scale. *Institute for Pandemics* 2024 *Interdisciplinary Symposium*, April 18, Toronto, Ontario, Canada. [Awarded 3rd Place]
- [J] Liu, N., Plouffe, R. A., Liu, J. J. W., Nouri, M. S., Saha, P., Gargala, D., Davis, B. D., Nazarov, A., Richardson, J. D. (2024). Determinants of Burnout in Canadian health care workers during the COVID-19 pandemic. European Journal of Psychotraumatology, Vol. 15, Issue 1. https://doi.org/10.1080/20008066.2024.2351782
- [P] Saha, P., Marouf Y., Pozzebon H., et al. (2024). Predicting Time to Diabetes Diagnosis Using Random Survival Forests. medRxiv. https://doi.org/10.1101/2024.02.03.24302304
- [J] St. Cyr, K., Nazarov, A., Le, T., Nouri, M. S., **Saha, P.**, Forchuk, C. A., et al. (2023). **Correlates of cannabis use in a sample of mental health treatment-seeking Canadian armed forces members and veterans**. *BMC Psychiatry*, Vol. 23, Article number 836. https://doi.org/10.1186/s12888-023-05237-2
- [C] Davis, B., Samadieh, M., Houle, S., Saha, P., Du, Y., Nazarov, A., Richardson, J. D. (2023). Network analysis exploring the association between posttraumatic stress disorder and moral injury symptoms in Veterans. Canadian Institute for Military and Veteran Health Research (CIMVHR) Forum 2023, p. 122. October 16 18, Ottawa-Gatineau, Ontario, Canada.
- [C] Dempster, K., St. Cyr, K., Davis, B., Saha, P., Wanklyn, S., Nazarov, A., Richardson, J.D. (2023). Investigating sex-based differences in chronic pain and mental health comorbidities in treatment seeking Canadian Armed Forces Veterans. Canadian Institute for Military and Veteran Health Research (CIMVHR) Forum 2023, p. 117. October 16 18, Ottawa-Gatineau, Ontario, Canada.

PROFESSIONAL EXPERIENCE

• HIVE Lab, Dalla Lana School of Public Health, University of Toronto [Data Science Research Student

September 2023 – August 2024

- Designed a causal approach for cluster-correlated data to identify long COVID patients using federated learning.
- Outlined and drafted a manuscript for a AI-assisted scoping review on collaboration and data sharing in Canada.
- Provided statistical consulting for interdisciplinary research teams looking to apply AI methods in public health.
- MacDonald Franklin OSI Research Centre, St Joseph's Health Care London

May 2022 – August 2023

- Data Science Research Assistant
- Conducted daily statistical analyses with tasks including data pre-processing, multiple imputation, and modeling.
- Developed an NLP pipeline to process clinician notes for mental health triage and treatment-outcome prediction.

- Explored longitudinal trends in anxiety, depression, and PTSD of veterans during the pandemic with mixed models.
- · Harmonized datasets from five different countries with feature engineering to facillitate interoperability.
- TELUS Health [\$\ddots] January 2021 April 2021

Software Developer

- Developer in test for Medesync EMR, a web application for physicians to manage electronic medical records.
- Collaborated with multidisciplinary teams of developers and clinicians to design data validation scripts in Python.
- Ontario Institute for Cancer Research [

January 2020 – April 2020

- Software Developer
- Front-end developer for ICGC-ARGO, an international data platform for collecting and analyzing cancer data.
- Implemented user-friendly dashboards with dynamic and interactive data visualizations as a front-end developer.
- Created pre-processing scripts to parse and format JSON files of clinical and genomic cancer data in Python.
- RedIron Technologies [

May 2019 – August 2019

Automation Engineer

- Designed automation infrastructure to streamline hours of manual testing to minutes using Java, Python, and SQL.
- Programmed a robot to automate repetitive testing on pin-pad and point of sale systems using Python.

TEACHING EXPERIENCE

• STA 130 – An Introduction to Statistical Reasoning and Data Science	January 2025 – April 2025
Teaching Assistant	University of Toronto
• STA 313 – Data Visualization	September 2024 – December 2024
Teaching Assistant	University of Toronto
• SE 101 – Introduction to Methods of Software Engineering	September 2021 – December 2021
Lead Teaching Assistant	University of Waterloo
MDM4U - Mathematics of Data Management	February 2017 – June 2018
One-on-One Tutor	Vincent Massey Secondary School
Code Reach Youth Program	September 2017 – June 2018
Instructor	Vincent Massey Secondary School

AWARDS AND HONOURS	
McGill Zhongci Wang Marlene Abrams Fellowship - \$45,000 McGill University	2025 – 2027
• SSC Student Travel Award Statistical Society of Canada	2025
• Graduate Studentship Award - \$10,000 Institute for Pandemics	2024 – 2025
NextGen Scholar Award IEEE Engineering in Medicine and Biology Society	2024
• Interdisciplinary Symposium Poster Competition – 3rd Place Institute for Pandemics	2024
• Term Honours, Distinction University of Waterloo	2019 – 2023
• President's Scholarship of Distinction University of Waterloo	2019

TECHNICAL SKILLS

Vice President of Operations

- Programming Languages: R (tidyverse, mice), Python (PyTorch, scikit-learn), C++, SAS, MATLAB, Unix Shell
- Tools & Technologies: Git, LaTeX, Quarto, RMarkdown, Jupyter Notebook, SQL, Excel, Docker, Jira
- Biostatistics Concepts: Causal Inference, Cluster-Correlated Data, Survival Analysis, Longitudinal Data
- Statistical Learning Models: Regression (GLM, Penalization), Random Forest, SVM, Boosting, Neural Networks

COMMUNITY INVOLVEMENT AND LEADERSHIP

Health Data Working Group	September 2023 – August 2025
Student Member	[#]
Biostatistics Union of Graduate Students	September 2024 – August 2025
Vice President and Secretary	
• Public Health Students' Association, University of Toronto	September 2023 – August 2024
Biostatistics MSc Representative	,

• Mathematics Society, University of Waterloo

December 2021 – April 2022

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