

# Priyonto Saha

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## EDUCATION

### • McGill University

September 2025 – Present

*Doctor of Philosophy in Biostatistics*

Thesis: -

◦ Supervised by ...

### • 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 CONFERENCES

CO/CP = CONFERENCE ORAL/POSTER, J = PEER-REVIEWED JOURNAL

- [CO] Saha, P., Liu K. (2025, August 2 - 7) **Causal inference for observational studies with clustered survival outcomes subject to right-censoring.** *2025 Joint Statistical Meetings*, Nashville, Tennessee, USA.
- [CO] Saha, P., Liu K. (2025, May 25 - 28) **A Causal Survival Analysis Approach for Multi-Level Health Data.** *2025 Statistical Society of Canada (SSC) Annual Meeting*, Saskatoon, Saskatchewan, Canada.
- [CP] Saha, P., Marouf Y., Pozzebon H., et al. (2024, July 15 - 19). **Predicting Time to Diabetes Diagnosis Using Random Survival Forests.** *46th Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, p. 70. Orlando, Florida, USA.
- [J] Saha, P., Marouf, Y., Pozzebon, et al. (2024). **Predicting Time to Diabetes Diagnosis Using Random Survival Forests.** *Annual International Conference of the IEEE Engineering in Medicine and Biology Society*. IEEE Engineering in Medicine and Biology Society, p. 1–4. <https://doi.org/10.1109/EMBC53108.2024.10782210>
- [CP] Saha, P., Ren, Y., Jiang, Y., Han, X., Wang, Y., Lou, W. (2024, June 2 - 5) **Using Random Survival Forests to Predict Personalized ICU Survival Time for Cervical Spinal Cord Injury.** *2024 Statistical Society of Canada (SSC) Annual Meeting*, St. John's, Newfoundland and Labrador, Canada.
- [CP] Saha, P. (2024, May 13). **Using Multi-Level Collaborative Learning to Investigate Long COVID Causality.** *2024 SORA-TABA Annual Workshop & DLSPH Biostatistics Research Day*, Toronto, Ontario, Canada.
- [CP] Saha, P. (2024). **Equitable Long COVID Characterization at a Global Scale.** *Institute for Pandemics 2024 Interdisciplinary Symposium*, April 18, Toronto, Ontario, Canada.
- [J] Liu, N., Plouffe, R. A., Liu, J. J. W., Nouri, M. S., Saha, P., Gargala, D., Davis, B. D., et al. (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>
- [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>
- [CO] Davis, B., Samadieh, M., Houle, S., Saha, P., Du, Y., Nazarov, A., Richardson, J. D. (2023, October 16 - 18). **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. Ottawa-Gatineau, Ontario, Canada.
- [CO] Dempster, K., St. Cyr, K., Davis, B., Saha, P., Wanklyn, S., Nazarov, A., Richardson, J.D. (2023, October 16 - 18). **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. Ottawa-Gatineau, Ontario, Canada.

## TECHNICAL SKILLS

- **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

## PROFESSIONAL EXPERIENCE

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- **HIVE Lab, Dalla Lana School of Public Health, University of Toronto [🌐]** September 2023 – August 2024  
*Data Science Research Student*
  - Designed a causal approach for cluster-correlated data to identify long COVID patients using federated learning.
  - 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 modelling.
  - Explored longitudinal trends in anxiety, depression, and PTSD of veterans during the pandemic with mixed models.
- **TELUS Health [🌐]** 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.
  - 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

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- **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 2018 – June 2018  
*One-on-One Tutor*  
Vincent Massey Secondary School
- **Code Reach Youth Program** September 2017 – June 2018  
*Instructor*  
Vincent Massey Secondary School
- **Student Help Centre** September 2015 – June 2018  
*Tutor*  
Vincent Massey Secondary School

## AWARDS AND HONOURS

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- **2025 McGill Zhongci Wang Marlene Abrams Fellowship - \$45,000.** 2025 – 2028  
McGill University
- **SSC Student Travel Award** 2025  
Statistical Society of Canada
- **Graduate Studentship Award - \$10,000** 2024 – 2025  
Institute of Health Emergencies and Pandemics
- **NextGen Scholar Award** 2024  
IEEE Engineering in Medicine and Biology Society
- **Interdisciplinary Symposium Poster Competition – 3rd Place** 2024  
Institute of Health Emergencies and Pandemics
- **Term Distinction** 2020 – 2023  
University of Waterloo
- **President's Scholarship of Distinction** 2019  
University of Waterloo

## COMMUNITY INVOLVEMENT AND LEADERSHIP

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- **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  
*Vice President of Operations* [🌐]