

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-Related Data, Survival Analysis, Longitudinal Data
- **Statistical Learning Models:** Regression (GLM, Penalization), Random Forest, SVM, Boosting, Neural Networks

PROFESSIONAL EXPERIENCE

- **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

- **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

- **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

- **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 [🌐]