

Jay Sivathayalan

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EDUCATION

Doctor of Philosophy, Biostatistics <i>University of Waterloo</i>	September 2024 – Present
Master of Mathematics, Biostatistics <i>University of Waterloo</i>	September 2023 – August 2024
Bachelor of Mathematics Honours, Statistics <i>Carleton University</i>	September 2019 – December 2022

AWARDS

Provost Doctoral Entrance Award <i>University of Waterloo</i>	September 2024
Statistics & Actuarial Science Chair's Award <i>University of Waterloo, Department of Statistics and Actuarial Science</i>	May 2024
W.F. Forbes Entrance Award <i>University of Waterloo, Department of Statistics and Actuarial Science</i>	September 2023
Senate Medal for Outstanding Academic Achievement <i>Carleton University</i>	June 2023
Ontario Graduate Scholarship (declined) <i>Carleton University</i>	April 2023
Constance van Eeden Scholarship (declined) <i>University of British Columbia</i>	February 2023
A.D. Dunton Scholarship <i>Carleton University</i>	June 2022
J. Lorne Gray Scholarship <i>Carleton University</i>	June 2021
Douglas K. Dale Scholarship in Statistics <i>Carleton University, School of Mathematics and Statistics</i>	May 2021
Clarence C. Gibson Scholarship <i>Carleton University</i>	June 2020
President's Scholarship <i>Carleton University</i>	June 2019

RESEARCH

MMath Research Paper <i>Supervisor: Dr. Michael Wallace</i>	May 2024 – Present
• Paper completed in August 2024 as part of requirements for MMath	
• Investigating the impact of measurement error in the tailoring covariate and the effect of group membership	
Honours Project <i>Supervisor: Dr. Patrick Farrell</i>	September 2022 – January 2023
• Completed honours project as part of undergraduate degree requirements in January 2023	
• Project consisted of a comparison between design- and model-based estimation, with a simulation comparing examples from each framework	
• Presented the project at the 2023 Technological Advances in Science, Medicine and Engineering Conference	
NSERC USRA <i>Supervisor: Dr. Sanjeena Dang</i>	May 2022 – August 2022
• USRA awarded in April 2022	
• Developed framework for multivariate Poisson log- <i>t</i> mixture models for clustering discrete data, with applications in bioinformatics	
• Evaluated model performance on clustering simulated and real-life data in R	
• Presented poster at 2023 Canadian Statistics Student Conference	
Dean's Summer Research Internship <i>Supervisor: Dr. Sanjoy Sinha</i>	May 2021 – July 2021
• DSRI awarded in April 2020 by Carleton University's Faculty of Science	
• Studied theory behind logistic regression and expanded on an algorithm for model creation from one variable to multiple variables	
• Analyzed patient data to evaluate risk factors for liver disease using a logistic regression model	

TEACHING

Graduate Teaching Assistant <i>University of Waterloo</i>	September 2023 – Present
• Grading assignments, midterms, and finals	
• Proctoring midterms and finals	
• Holding weekly office hours, monitoring online forums, running tutorials	
• Head TA for STAT 231 in Winter & Spring 2024, and STAT 230 in Fall 2024: reviewed work of grading team, handled regrade requests	
• Courses: STAT 206, STAT 230, STAT 231, STAT 330, STAT 332, STAT 431	
Undergraduate Teaching Assistant <i>Carleton University</i>	September 2020 – December 2022
• Graded assignments, tests, and finals	
• Proctored tests	
• Held weekly tutorials and office hours	
• Courses: BIT 1001, MATH 1004, MATH 1007, MATH 1104, MATH 1800, MATH 2004	

VOLUNTEER POSITIONS

Student and Recent Graduate Committee <i>Secretary</i>	September 2024 – Present
Secretary from September 2025 to the present; member as CSSC Co-chair from September 2024 to May 2025.	
Ontario Universities Sports Analytics Conference <i>Secretary</i>	November 2024 – March 2025
Conference held on March 1st, 2025 at the University of Toronto (St. George campus).	
UWaterloo Analytics Group for Games and Sports <i>Treasurer/Operations Lead</i>	October 2024 – April 2025
2025 Canadian Statistics Student Conference <i>Co-Chair</i>	July 2024 – May 2025
Conference held on May 24th, 2025 at the University of Saskatchewan.	
2024 Canadian Statistics Student Conference <i>Fundraising</i>	September 2023 – June 2024
Conference held on June 1st, 2024 at Memorial University at Newfoundland.	
2023 Canadian Statistics Student Conference <i>Local Organization</i>	September 2022 – May 2023
Conference held on May 27th, 2023 at Carleton University.	
Carleton Math Society <i>Treasurer</i>	May 2021 – December 2022

SOCIETY MEMBERSHIPS

Statistical Society of Canada

April 2024 – Present