Blair Bilodeau

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DEGREES

In progress	Ph.D.	Statistical Sciences, University of Toronto
		Advisor: Daniel Roy
		Committee: Nancy Reid, Ting-Kam Leonard Wong
2018	H.B.Sc.	Financial Modelling, Western University
		GPA: 94 / 100

RESEARCH GRANTS

2020	6,000 CAD	NSERC Michael Smith Foreign Study Supplement
2019-22	105,000 CAD	NSERC Alexander Graham Bell Canada Graduate Scholarship – Doctoral
2018-19	17,500 CAD	NSERC Alexander Graham Bell Canada Graduate Scholarship – Master's
2018-19	15,000 CAD	Queen Elizabeth II Graduate Scholarship in Science and Technology (Declined)
2018	4,500 CAD	NSERC Undergraduate Student Research Award
2017	4,500 CAD	NSERC Undergraduate Student Research Award

HONOURS AND AWARDS

2021	Hannan Graduate Student Travel Award, Institute of Mathematical Statistics
2020	Student Ambassador Award, University of Toronto
2020	Best Poster Award, New York Academy of Sciences Machine Learning Symposium
2020	Visiting Graduate Student, Insitute for Advanced Study, Princeton, New Jersey
2018	E. F. and F. W. Burton Graduate Scholarship, University of Toronto
2017	Robert and Ruth Lumsden Scholarship in Science, Western University
2017	Borwein Memorial Prize, Western University
2014–18	Continuing Admission Scholarship, Western University

REFEREED PUBLICATIONS

 † lead author; *equal contribution

- 1. **B. Bilodeau**[†], D. J. Foster, D. M. Roy. (2020). Tight Bounds on Minimax Regret Under Logarithmic Loss via Self-Concordance. *International Conference on Machine Learning*.
- 2. **B. Bilodeau**[†], D. A. Stanford, M. Goldszmidt, A. Appleton. (2019). Simulated Co-location of Patients Admitted to an Inpatient Internal Medicine Teaching Unit: Potential Impacts on Efficiency and Physician-Nurse Collaboration. *INFOR: Information Systems and Operational Research*.

PREPRINTS

- 3. **B. Bilodeau**[†], D. J. Foster, D. M. Roy. (2021). Minimax Rates for Conditional Density Estimation via Empirical Entropy. *In preparation*.
- 4. **B. Bilodeau***, A. Stringer*, Y. Tang*. (2021). Stochastic Convergence Rates and Applications of Adaptive Quadrature in Bayesian Inference. *arXiv:2102.06801*.
- 5. **B. Bilodeau***, J. Negrea*, D. M. Roy. (2020). Relaxing the I.I.D. Assumption: Adaptively Minimax Optimal Regret via Root-Entropic Regularization. *arXiv:2007.06552*.
- 6. **B. Bilodeau**[†], D. A. Stanford. (2020). Average Waiting Times in the Two-Class M/G/1 Delayed Accumulating Priority Queue. *arXiv*:2001.06054.

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PRESENTATIONS (CONTRIBUTED AND INVITED TALKS/SEMINARS/COLLOQUIA) Stochastic Convergence Rates and Applications of Adaptive Quadrature in Bayesian Inference June 2021 International Society for Bayesian Analysis World Meeting: Oral Session Minimax Rates for Conditional Density Estimation via Empirical Entropy University of Toronto Statistical Sciences Research Day: Oral Session Apr 2021 Relaxing the I.I.D. Assumption: Adaptively Minimax Optimal Regret via Root-Entropic Regularization Apr 2021 DeepMind: Foundations Reading Group Mar 2021 University of California, Los Angeles: Computer Science Seminar Mar 2021 Massachusetts Institute of Technology: Stochastics and Statistics Seminar Feb 2021 RIKEN Center for Advanced Intelligence Project: Public Seminar Tight Bounds on Minimax Regret under Logarithmic Loss via Self-Concordance Aug 2020 American Statistical Association Joint Statistical Meetings: Poster Session Mar 2020 New York Academy of Sciences Machine Learning Symposium: Poster Session Institute for Advanced Study: Special Year Student Seminar Mar 2020 Scraping Papers from arXiv and biorXiv using Python May 2020 Canadian Statistics Student Conference: Invited Workshop Average Waiting Times in the Two-Class M/G/1 Delayed Accumulating Priority Queue Aug 2019 Canadian Queueing Conference: Oral Session June 2019 Southwestern Ontario Graduate Math and Stats Conference: Oral Session May 2019 Canadian Operational Research Society Annual Meeting: Oral Session Simulated Co-location of Patients Admitted to an Inpatient Internal Medicine Teaching Unit Aug 2018 Canadian Queueing Conference: Oral Session July 2018 Operational Research Applied to Health Services Annual Meeting: Oral Session **EMPLOYMENT** 2019 -Graduate Researcher, Vector Institute, Toronto, Ontario 2017-18 Undergraduate Researcher, Western University, London, Ontario 2016 Risk Research Intern, Canada Life, London, Ontario 2015 Data Analyst Intern, Bell Canada, London, Ontario **TEACHING** UTSG = University of Toronto, St. George Course Instructor UTSG STA347 Probability Theory 2021 2020 UTSG STA347 Probability Theory **Head Teaching Assistant** 2019 UTSG STA442 Methods of Applied Statistics 2019 UTSG STA261 Probability and Statistics II Teaching Assistant 2021 UTSG STA238 Probability, Statistics, and Data Analysis II **Probability Theory** 2020 UTSG STA347 2020 UTSG STA257 Probability and Statistics I Probability and Statistics I 2019 UTSG STA257 UTSG STA457

Time Series Analysis

Probability Theory UTSG ACT230 Mathematics of Finance for Non-Actuaries

Theory of Statistical Practice

UTSG STA355

UTSG STA347

2019

2019 2018

2018

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SERVICE

Conference Reviewer

2021 Algorithmic Learning Theory

Administrative Positions

2019– Treasurer, Statistics Graduate Student Association, University of Toronto