Blair Laurence Bilodeau

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DEGREES

University of Toronto, PhD, Statistics — Sept 2018 – Present
Committee: Daniel Roy (advisor), Nancy Reid, Ting-Kam Leonard Wong

Western University, Honours BSc, Financial Modelling — Sept 2014 – Apr 2018
GPA: 3.97 / 4.00

RESEARCH GRANTS

NSERC Michael Smith Foreign Study Supplement: $6,000	2020
NSERC Alexander Graham Bell Canada Graduate Scholarship – Doctoral: $105,000	2019 – 2022
NSERC Alexander Graham Bell Canada Graduate Scholarship – Master's: $17,500	2018 – 2019
Queen Elizabeth II Graduate Scholarship in Science and Technology: $15,000 (*Declined*)	2018 – 2019
NSERC Undergraduate Student Research Award: $4,500	2018
NSERC Undergraduate Student Research Award: $4,500	2017

HONOURS AND AWARDS

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

REFEREED PUBLICATIONS

†lead author; ⋆equal contribution

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*.

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

B. Bilodeau⋆, A. Stringer⋆, Y. Tang⋆. (2021). Stochastic Convergence Rates and Applications of Adaptive Quadrature in Bayesian Inference. *arXiv:2102.06801*.

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*.

B. Bilodeau†, D. A. Stanford. (2020). Average Waiting Times in the Two-Class M/G/1 Delayed Accumulating Priority Queue. *arXiv:2001.06054*.

INVITED TALKS

University of California, Los Angeles. Virtual. (*with Daniel Roy*)	Mar 2021
Massachusetts Institute of Technology. Virtual. (*with Daniel Roy*)	Mar 2021
RIKEN Center for Advanced Intelligence Project. Virtual. (*with Jeffrey Negrea*)	Feb 2021
Canadian Statistics Student Conference. Virtual.	May 2020
Institute for Advanced Study, Special Year Student Seminar. Princeton, New Jersey.	Mar 2020

CONTRIBUTED TALKS

American Statistical Association Joint Statistical Meetings. Virtual. Poster. Aug 2020
New York Academy of Sciences Machine Learning Symposium. Virtual. Poster. Mar 2020
Canadian Queueing Conference. Toronto, Ontario. Oral. Aug 2019
Southwestern Ontario Graduate Math and Stats Conference. Guelph, Ontario. Oral. June 2019
Canadian Operational Research Society Annual Meeting. Saskatoon, Saskatchewan. Oral. May 2019
Canadian Queueing Conference. Edmonton, Alberta. Oral. Aug 2018
Operational Research Applied to Health Services Annual Meeting. Oslo, Norway. Oral. July 2018

EMPLOYMENT

Vector Institute, Toronto, Ontario
Graduate Researcher, Advised by Daniel Roy — Jan 2019 – Present
Regret bounds for sequential prediction: non-Lipschitz loss, data-dependent regret bounds, and dimension-free results.

Western University, London, Ontario
Undergraduate Researcher, Advised by David Stanford — May – Aug 2018
First characterization of the effect on high priority customers from introducing a delay period for low priority customers in the M/G/1 accumulating priority queue.

Undergraduate Researcher, Advised by David Stanford — May – Aug 2017
Simulation model of the internal medicine ward at London's University Hospital to study physician–nurse collaboration efficiency.

Canada Life, London, Ontario
Risk Research Intern, Wealth Management — May – Aug 2016

Bell Canada, London, Ontario
Data Analyst Intern, Access Network — May – Aug 2015

TEACHING

University of Toronto
Course Instructor
STA347: Probability Theory — Summer 2020

Head Teaching Assistant
STA442: Methods of Applied Statistics — Fall 2019
STA261: Probability and Statistics II — Summer 2019

Teaching Assistant
Various undergraduate statistics courses — Fall 2018 – Present

SERVICE

Reviewing
Algorithmic Learning Theory 2021

Statistics Graduate Student Association, University of Toronto
Treasurer — Sept 2019 – Present