

Blair Laurence Bilodeau

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EDUCATION

PhD, Statistics, University of Toronto
Supervisor: Dr. Daniel Roy

Sept 2018 – Present

Honours BSc, Financial Modelling, University of Western Ontario
GPA: 3.97 / 4.00

Sept 2014 – Apr 2018

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

RESEARCH POSITIONS

Doctoral Researcher, University of Toronto & Vector Institute
Supervisor: Dr. Daniel Roy

Jan 2019 – Present

Studying generalization guarantees for sequential prediction. Current project focuses on non-Lipschitz loss, data-dependent regret bounds, and dimension-free results.

Undergraduate Researcher, University of Western Ontario
Supervisor: Dr. David Stanford

May – Aug 2018

Provided the 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, University of Western Ontario
Supervisor: Dr. David Stanford

May – Aug 2017

Developed a Python simulation model of the internal medicine ward at London's University Hospital to study physician-nurse collaboration efficiency.

RESEARCH VISITS

Institute for Advanced Study, Princeton, New Jersey
Program: *Special Year on Optimization, Statistics, and Machine Learning*

Jan – Mar 2020

Simons Institute for Theoretical Computing, University of California, Berkeley
Program: *Foundations of Deep Learning*

July 2019

- [2] B. Bilodeau*, D.J. Foster, D.M. Roy. (2020). Improved bounds on minimax regret under logarithmic loss via self-concordance. *Submitted to International Conference on Machine Learning*.
- [1] B. Bilodeau*, D.A. Stanford. (2020). Average waiting times in the two-class M/G/1 Delayed Accumulating Priority Queue. *Submitted to Operations Research for Healthcare*.

REFEREED PUBLICATIONS

- [1] 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*.

INVITED TALKS

Workshop on efficient literature reviews using Python.

Canadian Statistics Student Conference, Ottawa, Ontario.

May 2020

CONTRIBUTED TALKS

Improved bounds on minimax regret under logarithmic loss via self-concordance.

Department of Statistical Sciences Graduate Research Day, University of Toronto. Oral.

April 2020

New York Academy of Sciences ML Symposium, New York City, New York. Poster.

March 2020

Average waiting times in the two-class M/G/1 Delayed Accumulating Priority Queue.

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

Simulated co-location of patients admitted to an inpatient internal medicine teaching unit.

Canadian Queueing Conference, Edmonton, Alberta. Oral.

Aug 2018

EURO Operational Research Applied to Health Services Annual Meeting, Oslo, Norway. Oral.

July 2018

PROFESSIONAL POSITIONS

Risk Research Intern, Canada Life Insurance, London, Ontario

May – Aug 2016

Data Analyst Intern, Bell Canada, London, Ontario

May – Aug 2015

Level 3 Ice Hockey Referee, Ontario Hockey Federation, London, Ontario

Sept 2010 – Apr 2017

TEACHING POSITIONS

Course Instructor, University of Toronto

STA347: Probability Theory

Summer 2020

Head Teaching Assistant, University of Toronto

STA442: Methods of Applied Statistics

Fall 2019

STA261: Probability and Statistics II

Summer 2019

Teaching Assistant, University of Toronto

STA257: Probability and Statistics I

Fall 2019

STA457: Time Series Analysis

Winter 2019

STA355: Theory of Statistical Practice

Winter 2019

STA347: Probability Theory

Fall 2018

ACT230: Mathematics of Finance for Non-Actuaries

Fall 2018

HONOURS AND AWARDS

E.F. Burton and F.W. Burton Graduate Scholarship	2018
Robert and Ruth Lumsden Scholarships in Science	2017
Borwein Memorial Prize for top grade in Analysis I	2017
University of Western Ontario Continuing Admission Scholarship	2014 – 2018

ACADEMIC SERVICE

Treasurer , Statistics Graduate Student Association, University of Toronto	Sept 2019 – Aug 2020
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