

Blair Laurence Bilodeau

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EDUCATION

University of Toronto, PhD, Statistics
 Advisor: Daniel Roy

Sept 2018 – Present

Western University, Honours BSc, Financial Modelling
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

HONOURS AND AWARDS

Department of Statistical Sciences Student Ambassador Award	2020
New York Academy of Sciences ML Symposium Best Poster Award	2020
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
Western University Continuing Admission Scholarship	2014 – 2018

RESEARCH POSITIONS

Vector Institute, Toronto, Ontario
Graduate Researcher

Jan 2019 – Present
Advisor: Daniel Roy

Studying regret bounds for sequential prediction. Current projects focus on non-Lipschitz loss, data-dependent regret bounds, and dimension-free results.

Western University

May – Aug 2018

Undergraduate Researcher

Advisor: David Stanford

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.

Western University

May – Aug 2017

Undergraduate Researcher

Advisor: David Stanford

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

Jan – Mar 2020

Program: *Special Year on Optimization, Statistics, and Machine Learning*

Simons Institute for Theoretical Computing, University of California, Berkeley

July 2019

Program: *Foundations of Deep Learning*

- [2] B. Bilodeau*, D.J. Foster, D.M. Roy. (2020). **Improved bounds on minimax regret under logarithmic loss via self-concordance.** *In submission.*
- [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

*Event held virtually due to COVID-19

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.

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

Mar 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

TEACHING POSITIONS

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

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

VOLUNTEER POSITIONS

Statistics Graduate Student Association, University of Toronto

Sept 2019 – Aug 2020

Treasurer

PROFESSIONAL POSITIONS

Canada Life Insurance, London, Ontario
Risk Research Intern

May – Aug 2016

Bell Canada, London, Ontario
Data Analyst Intern

May – Aug 2015

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

Sept 2010 – Apr 2017