Blair Laurence Bilodeau

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EDUCATION

University of Toronto, PhD, Statistics Sept 2018 – Present

Advisor: Daniel Roy

University of Western Ontario, Honours BSc, Financial Modelling Sept 2014 – Apr 2018

GPA: 3.97 / 4.00

RESEARCH GRANTS

NSERC Michael Smith Foreign Study Supplement: \$6,000

NSERC Alexander Graham Bell Canada Graduate Scholarship – Doctoral: \$105,000

NSERC Alexander Graham Bell Canada Graduate Scholarship – Master's: \$17,500

Queen Elizabeth II Graduate Scholarship in Science and Technology: \$15,000 (Declined)

NSERC Undergraduate Student Research Award: \$4,500

NSERC Undergraduate Student Research Award: \$4,500

2018 – 2019

2018 – 2019

2018 – 2019

HONOURS AND AWARDS

New York Academy of Sciences ML Symposium Poster Award, Presented by Spotify2020E.F. Burton and F.W. Burton Graduate Scholarship2018Robert and Ruth Lumsden Scholarships in Science2017Borwein Memorial Prize for top grade in Analysis I2017University of Western Ontario Continuing Admission Scholarship2014 – 2018

RESEARCH POSITIONS

Vector Institute, Toronto, Ontario

Doctoral Researcher Advisor: Daniel Roy

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

University of Western Ontario

May – Aug 2018

Jan 2019 - Present

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.

University of Western Ontario

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

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PREPRINTS * lead author; ** equal contribution

[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

*Event moved online due to COVID-19 pandemic

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.

Southwestern Ontario Graduate Math and Stats Conference, Guelph, Ontario. Oral.

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.

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

STA457: Time Series Analysis

STA355: Theory of Statistical Practice

STA347: Probability Theory

ACT230: Mathematics of Finance for Non-Actuaries

Fall 2019

Fall 2019

Fall 2019

Fall 2018

VOLUNTEER POSITIONS

Statistics Graduate Student Association, University of Toronto

Sept 2019 - Aug 2020

Treasurer

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PROFESSIONAL POSITIONS

Canada Life Insurance, London, OntarioRisk Research Intern
May – Aug 2016

Bell Canada, London, OntarioData Analyst Intern
May – Aug 2015

Ontario Hockey Federation, London, Ontario Sept 2010 – Apr 2017

Level 3 Ice Hockey Referee

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