Blair Laurence Bilodeau

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EDUCATION

PhD, Statistics, University of Toronto Sept 2018 – Present

Supervisor: Dr. Daniel Roy

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

GPA: 3.97 / 4.00

RESEARCH GRANTS

NSERC Canada Graduate Scholarship – Doctoral: \$105,000	2019 - 2022
NSERC Canada Graduate Scholarship – Master's: \$17,500	2018 - 2019
Queen Elizabeth II Graduate Scholarship: \$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

Jan 2019 - Present

Supervisor: Dr. Daniel Roy

• Working to bridge the gap between generalization bounds for algorithms on IID data and regret bounds for online learning algorithms by incorporating information about the observed sequence.

Undergraduate Researcher, University of Western Ontario

May - Aug 2018

Supervisor: Dr. David Stanford

• Studied the Laplace-Stieltjes transform of the Maximum Priority Process for the Delayed Accumulating Priority Queue. Derived the average waiting time for high priority customers in this regime.

Undergraduate Researcher, University of Western Ontario

May – Aug 2017

Supervisor: Dr. David Stanford

• Developed a Python simulation model of the internal medicine ward at London's University Hospital to study physician-nurse collaboration efficiency, and proposed two novel changes which are to be implemented in a trial by the hospital.

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

PREPRINTS

2. **B.L. Bilodeau** and D.A. Stanford. (2019). The average waiting time for both classes in a delayed Accumulating Priority Queue.

REFEREED PUBLICATIONS

1. **B.L. 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.

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CONFERENCE PRESENTATIONS

The average waiting time for both classes in a delayed Accumulating Priority Queue. Canadian Queueing Conference (CanQueue), Toronto, Ontario. Oral. Southwestern Ontario Graduate Math and Stats (SOGMSC), Guelph, Ontario. Oral. Canadian Operational Research Society (CORS), Saskatoon, Saskatchewan. Oral.	Aug 2019 June 2019 May 2019
Simulated co-location of patients admitted to an inpatient internal medicine teaching unit. Canadian Queueing Conference (CanQueue), Edmonton, Alberta. Oral. Operations Research Applied to Health Services (ORAHS), Oslo, Norway. Oral.	Aug 2018 July 2018
PROFESSIONAL POSITIONS	
Risk Research Intern, Canada Life Insurance, London, Ontario • Performed statistical analysis for a major mortality study on life-contingent annuities.	May – Aug 2016
 Data Analyst Intern, Bell Canada, London, Ontario Predicted construction milestones from historical data for financial planning purposes. 	May – Aug 2015
Level 3 Ice Hockey Referee, Ontario Hockey Federation, London, Ontario	Sept 2010 – Apr 2017
TEACHING POSITIONS	
Teaching Assistant, University of Toronto STA442: Methods of Applied Statistics STA257: Probability and Statistics I STA261: Probability and Statistics II STA457: Time Series Analysis STA355: Theory of Statistical Practice STA347: Probability Theory ACT230: Mathematics of Finance for Non-Actuaries	Fall 2019 Fall 2019 Summer 2019 Spring 2019 Spring 2019 Fall 2018
University of Toronto • E.F. Burton and F.W. Burton Graduate Scholarship	2018
 University of Western Ontario Robert and Ruth Lumsden Scholarships in Science Borwein Memorial Prize for top grade in Analysis I Continuing Admission Scholarship 	2017 2017 2014 – 2018
ACADEMIC SERVICE	
Treasurer, Statistics Graduate Student Association, University of Toronto	Sept 2019 – Aug 2020

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