Blair Laurence Bilodeau

Website Email Phone	www.blairbilodeau.ca blair.bilodeau@mail.utoronto.ca +1 (519) 871-4811	Address	2107-126 Simcoe St. Toronto, Ontario M5H 4E6
EDUCATI	ION		
,	stics, University of Toronto : Dr. Daniel Roy		2018 – Present
Honours E GPA: 3.97	3Sc, Financial Modelling , University of Western Ontario / 4.00		2014 – 2018
RESEAR	CH GRANTS		
NSERC C Queen Eliz NSERC U	ostgraduate Scholarships – Doctoral: \$63,000 anada Graduate Scholarships – Master's: \$17,500 zabeth II Graduate Scholarship: \$15,000 (Declined) ndergraduate Student Research Award: \$4,500 ndergraduate Student Research Award: \$4,500		2019 - 2022 2018 - 2019 2018 - 2019 2018 2017

Doctoral Researcher, University of Toronto & Vector Institute

Jan 2019 - Present

Supervisor: Dr. Daniel Roy

RESEARCH POSITIONS

• 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 2018 – 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 2017 – 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 2020 – Mar 2020
Simons Institute for Theoretical Computing, University of California, Berkeley	July 2019

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

CONFERENCE I RESENTATIONS	
Southwestern Ontario Graduate Math and Stats (SOGMSC) , Guelph, Ontario. Oral. The average waiting time for both classes in a delayed Accumulating Priority Queue.	June 2019
Canadian Operational Research Society (CORS), Saskatoon, Saskatchewan. Oral. The average waiting time for both classes in a delayed Accumulating Priority Queue.	May 2019 Aug 2018
Canadian Queueing Conference (CanQueue), Edmonton, Alberta. Oral. Simulated co-location of patients admitted to an inpatient internal medicine teaching unit.	
Operations Research Applied to Health Services (ORAHS) , Oslo, Norway. Oral. Simulated co-location of patients admitted to an inpatient internal medicine teaching unit.	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 2016 – Aug 2016
 Data Analyst Intern, Bell Canada, London, Ontario Built a model to predict construction milestones from historical data for financial plant 	May 2015 – Aug 2015 ning purposes.
Level 3 Ice Hockey Referee, Ontario Hockey Federation, London, Ontario	Sep 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 Fall 2018
HONOURS AND AWARDS	
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 Continuing Admission Scholarship	2017 2017 2014 – 2018
ACADEMIC SERVICE	

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ACADEMIC SERVICE

VP Treasury, Statistics Graduate Student Union, University of Toronto

Sep 2019 – Aug 2020

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