

Blair Laurence Bilodeau

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EDUCATION

PhD, Statistics – GPA: 3.96 / 4.00 2018 – 2023
University of Toronto, Toronto, Canada
Supervisor: Dr. Daniel Roy

Honours BSc, Financial Modelling and Mathematics – GPA: 3.97 / 4.00 2014 – 2018
Western University, London, Canada

RESEARCH GRANTS

NSERC Postgraduate Scholarships – Doctoral: \$63,000 2019 – 2022
NSERC Canada Graduate Scholarships – 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 EXPERIENCE

Doctoral Researcher Jan 2019 – Present
University of Toronto, Toronto, Canada
Supervisor: Dr. Daniel Roy

- Working to bridge the gap between generalization bounds for algorithms on IID data and regret bounds for online learning algorithms. Towards this, I hope to develop a notion of model fit as a prior for the regret experienced.

Undergraduate Researcher May 2018 – Aug 2018
Western University, London, Canada
Supervisor: Dr. David Stanford

- Derived the Laplace-Stieltjes transform of the Maximum Priority Process for the Accumulating Priority Queue, as well as the average waiting time for both classes in the Delayed APQ. Made progress on deriving the waiting time distribution for the high priority customers in the Delayed APQ.

Undergraduate Researcher May 2017 – Aug 2017
Western University, London, Canada
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.

REFEREED PUBLICATIONS

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.

CONFERENCE PRESENTATIONS

- SOGMSC**, Guelph, Canada. Oral. June 2019
The average waiting time for both classes in a delayed Accumulating Priority Queue.
- CORS**, Saskatoon, Canada. Oral. May 2019
The average waiting time for both classes in a delayed Accumulating Priority Queue.
- CanQueue**, Edmonton, Canada. Oral. August 2018
Simulated co-location of patients admitted to an inpatient internal medicine teaching unit.
- ORAHs**, Oslo, Norway. Oral. July 2018
Simulated co-location of patients admitted to an inpatient internal medicine teaching unit.

WORKING PAPERS

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

PROFESSIONAL EXPERIENCE

- Risk Research Intern** May 2016 – Aug 2016
London Life Insurance Company, London, Canada
- Performed statistical analysis for a major mortality study on life-contingent annuities.
- Data Analyst Intern** May 2015 – Aug 2015
Bell Canada, London, Canada
- Built a model to predict construction milestones from historical data for financial planning purposes.
- Level 3 Ice Hockey Referee** Sep 2010 – Apr 2017
Ontario Hockey Federation, London, Canada

TEACHING EXPERIENCE

- Teaching Assistant**
University of Toronto, Toronto, Canada
- STA261: Probability and Statistics II Spring 2020
 - STA238: Probability, Statistics, and Data Analysis II Spring 2020
 - STA442: Methods of Applied Statistics Fall 2019
 - STA257: Probability and Statistics I Fall 2019
 - STA261: Probability and Statistics II Summer 2019
 - STA457: Time Series Analysis Spring 2019
 - STA355: Theory of Statistical Practice Spring 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** 2017
- Western University Continuing Admission Scholarship** 2014 – 2018