### Blair Laurence Bilodeau

Website www.blairbilodeau.ca Address 2305-14 York St.

**Email** Toronto, Ontario blair.bilodeau@mail.utoronto.ca **Phone** +1 (519) 871-4811

M5J 0B1

**EDUCATION** 

PhD. Statistics. University of Toronto Sept 2018 - Present

Supervisor: Dr. Daniel Roy

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

GPA: 3.97 / 4.00

RESEARCH GRANTS

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

#### 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**, 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**

Aug 2019 al. June 2019 Oral. May 2019
Aug 2018 July 2018
May – Aug 2016
May – Aug 2015
Sept 2010 – Apr 2017
Fall 2019 Summer 2019
Fall 2019 Winter 2019 Winter 2019 Fall 2018 Fall 2018
2018
2017 2017 2014 – 2018
Sept 2019 – Aug 2020

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