# Blair Laurence Bilodeau

Website Email Phone	www.blairbilodeau.ca blair.bilodeau@mail.utoronto.ca +1 (519) 871-4811	Address	PH11-168 Simcoe St. Toronto, Ontario M5H 4C9
	of Toronto, PhD, Statistics		Sept 2018 – Present
	of. Daniel Roy  niversity, Honours BSc, Financial Modelling 4.00		Sept 2014 – Apr 2018
NSERC Ale NSERC Ale Queen Eliza NSERC Und	GRANTS chael Smith Foreign Study Supplement: \$6,000 exander Graham Bell Canada Graduate Scholarship – Doctoral: \$2 exander Graham Bell Canada Graduate Scholarship – Master's: \$2 ebeth II Graduate Scholarship in Science and Technology: \$15,000 dergraduate Student Research Award: \$4,500 dergraduate Student Research Award: \$4,500	17,500	2020 2019 - 2022 2018 - 2019 2018 - 2019 2018 2017
Department New York A E.F. Burton Robert and I Borwein Me	of Statistical Sciences Student Ambassador Award Academy of Sciences Machine Learning Symposium Best Poster Academy of Sciences Machine Learning Symposium Best Poster Academy of Science Scholarships in Science Emorial Prize for top grade in Analysis I iversity Continuing Admission Scholarship	Award	2020 2020 2018 2017 2017 2014 – 2018
Vector Inst Graduate Re Studying r	itute, Toronto, Ontario esearcher, Advised by Prof. Daniel Roy regret bounds for sequential prediction. Current projects focus on dependent regret bounds, and dimension-free results.	non-Lipschitz	Jan 2019 – Present
<i>Undergradu</i> Provided t	niversity, London, Ontario tate Researcher, Advised by Prof. David Stanford the first characterization of the effect on high priority customers from from the priority customers in the M/G/1 accumulating priority		May – Aug 2018
Developed	tate Researcher, Advised by Prof. David Stanford  I a Python simulation model of the internal medicine ward at Longo study physician-nurse collaboration efficiency.	don's Univers	May – Aug 2017 ity
	<b>Te Insurance, London, Ontario</b> ch Intern, Wealth Management		May – Aug 2016
	a, London, Ontario st Intern, Access Network		May – Aug 2015
	VISITS  r Advanced Study, Princeton, New Jersey pecial Year on Optimization, Statistics, and Machine Learning		Jan – Mar 2020
	titute for Theoretical Computing, University of California, Berkoundations of Deep Learning	keley	July 2019

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PREPRINTS \*lead author; \*\*equal contribution

[4] **B. Bilodeau**\*\*, J. Negrea\*\*, D. M. Roy. (2020). Relaxing the i.i.d. assumption: Adaptive minimax optimal sequential prediction with expert advice. *arXiv*:2007.06552.

[3] **B. Bilodeau**\*, D. A. Stanford. (2020). Average waiting times in the two-class M/G/1 delayed accumulating priority queue. *arXiv*:2001.06054.

#### REFEREED PUBLICATIONS

- [2] **B. Bilodeau**\*, D. J. Foster, D. M. Roy. (2020). Tight bounds on minimax regret under logarithmic loss via self-concordance. *International Conference on Machine Learning*.
- [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

# Workshop on efficient literature reviews using Python.

Canadian Statistics Student Conference, Virtual.

May 2020

#### CONTRIBUTED TALKS

# Tight bounds on minimax regret under logarithmic loss via self-concordance.

American Statistical Association Joint Statistical Meetings, Virtual. Poster.

Aug 2020
New York Academy of Sciences Machine Learning Symposium, Virtual. 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 EXPERIENCE

#### **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

Winter 2019

Fall 2018, Fall 2020

Fall 2018

# VOLUNTEER POSITIONS

# **Statistics Graduate Student Association, University of Toronto**

Treasurer Sept 2019 – Present

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