# Mufan (Bill) Li

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#### **DEGREES**

## University of Toronto

Ph.D. Statistics Sept 2017 – Expected 2022

M.Sc. Statistics - GPA: 3.96

B.A.Sc. Engineering Science - GPA: 3.66

June 2015

AWARDS

## Ontario Graduate Scholarship

University of Toronto

MITACS Accelerate Fellowship

with Borealis AI

Faculty of Applied Science and Engineering Undergraduate Summer Research Fellowship

May 2012

2019 - 2021

August 2018

with Professor Birsen Donmez

#### RESEARCH ARTICLES

### Riemannian Langevin Algorithm for Solving Semidefinite Programs

October 2020

With Murat A. Erdogdu arXiv Preprint, arXiv:2010.11176

#### Uniform Stability and High Order Approximation of the SGLD

June 2019

With Maxime Gazeau

Workshop on Understanding and Improving Generalization in Deep Learning (ICML)

#### An Escape Time Analysis of SGD

December 2018

With Philippe Casgrain, Gintare Karolina Dziugaite, Daniel M. Roy Integration of Deep Learning Theories Workshop (NeurIPS)

#### RESEARCH PROJECTS

Collaborative Filtering Approach to Understanding Student GPA July 2015 - April 2016 M.Sc. Research Course - Supervisor: Professor Jeffrey Rosenthal

#### **Numerical Methods for PDEs**

Jan 2014 - August 2015

B.A.Sc. Thesis - Supervisor: Professor Christina Christara

## RESEARCH TALKS

Uniform Stability and High Order Approximation of the Langevin Algorithm in Non-Convex Learning April 2019

Statistics Graduate Student Research Day

## WORK EXPERIENCE

Borealis AI  Machine Learning Research Intern  Supported by the MITACS Accelerate Fellowship.  Ontario Teachers' Pension Plan  Investment Analyst, Global Credit Products	August 2018 - April 2019 Toronto, ON  July 2016 - July 2017 Toronto, ON		
		RBC Capital Markets	May 2013 - August 2014
		Intern, Electronic and Algorithmic Trading	Toronto, ON
		ACHING	
		ESC103 Engineering Mathematics and Computation	Fall 2017-2020
with Professor William Cluett	$Toronto,\ ON$		
STA286 Engineering Probability and Statistics	Winter 2018		
with Professor Mark Ebden and Professor Deepa Kundur	$Toronto,\ ON$		
STA410 Computational Statistics	Fall 2017		
with Professor Keith Knight	$Toronto,\ ON$		
STA220 The Practice of Statistics	Summer 2016		
STA248 Statistics for Computer Science	Winter 2016		
with Professor Shivon Sue-Chee	$Toronto, \ ON$		
STA261 Probability and Statistics II	Winter 2016		
with Professor Shivon Sue-Chee	$Toronto, \ ON$		
STA304 Survey, Sampling, and Observational Data	Winter 2016		
with Neil Montgomery	$Toronto, \ ON$		
STA247 Probability with Computer Applications	Winter 2016		
with Luai Al Labadi	Toronto, ON		