

# Mufan (Bill) Li

<https://mufan-li.github.io/>

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## DEGREES

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### University of Toronto

Ph.D. Statistics

Sept 2017 – Expected 2023

M.Sc. Statistics

June 2016

B.A.Sc. Engineering Science

June 2015

## RESEARCH ARTICLES

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### Acceleration of Gossip Algorithms through the Euler–Poisson–Darboux Equation

*With Raphaël Berthier*

*arXiv Preprint, arXiv:2202.10742*

### Analysis of Langevin Monte Carlo from Poincaré to Log-Sobolev

*With Sinho Chewi, Murat A. Erdogdu, Ruqi Shen, and Matthew Zhang*

*arXiv Preprint, arXiv:2112.12662, Submitted to Conference on Learning Theory (COLT)*

### The Future is Log-Gaussian: ResNets and Their Infinite-Depth-and-Width Limit at Initialization

*With Mihai Nica and Daniel M. Roy*

*NeurIPS 2021, arXiv Preprint, arXiv:2106.04013*

### Higher Order Generalization Error for First Order Discretization of Langevin Diffusion

*With Maxime Gazeau*

*arXiv Preprint, arXiv:2102.06229*

### Riemannian Langevin Algorithm for Solving Semidefinite Programs

*With Murat A. Erdogdu*

*arXiv Preprint, arXiv:2010.11176, Submitted to Bernoulli Journal*

## AWARDS

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### Probability Section Student Research Presentation Award

2021

*Statistical Society of Canada (SSC) Annual Meeting*

### Ontario Graduate Scholarship

2019–2022

*University of Toronto*

### MITACS Accelerate Fellowship

August 2018

*with Borealis AI*

### Faculty of Applied Science and Engineering Undergraduate Summer Research Fellowship

May 2012

*with Professor Birsan Donmez*

## WORK EXPERIENCE

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### **Borealis AI**

*Machine Learning Research Intern*

Supported by the MITACS Accelerate Fellowship.

August 2018 - April 2019

*Toronto, ON*

### **Ontario Teachers' Pension Plan**

*Investment Analyst, Global Credit Products*

July 2016 - July 2017

*Toronto, ON*

### **RBC Capital Markets**

*Intern, Electronic and Algorithmic Trading*

May 2013 - August 2014

*Toronto, ON*