

Mufan (Bill) Li

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DEGREES

University of Toronto

Ph.D. Statistics

Sept 2017 – Expected 2023

M.Sc. Statistics

June 2016

B.A.Sc. Engineering Science

June 2015

RESEARCH ARTICLES

The Neural Covariance SDE: Shaped Infinite Depth-and-Width Networks at Initialization

With Mihai Nica and Daniel M. Roy

NeurIPS 2022 (Selected for Oral), arXiv Preprint, arXiv:2206.02768

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

With Raphaël Berthier

To appear in IMA Journal of Applied Mathematics, arXiv Preprint, arXiv:2202.10742

Analysis of Langevin Monte Carlo from Poincaré to Log-Sobolev

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

COLT 2022 Extended Abstract, arXiv Preprint, arXiv:2112.12662

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, Major revision at Bernoulli

AWARDS

Probability Section Student Research Presentation Award

2021

Statistical Society of Canada (SSC) Annual Meeting

Ontario Graduate Scholarship

2019–2023

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 Birsen Donmez

WORK EXPERIENCE

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