Mufan (Bill) Li

https://mufan-li.github.io/ 96 Saint Patrick Street \diamond Toronto, ON M5T 1V2 (416)·843·9179 \diamond mufan.li@mail.utoronto.ca

DEGREES

University of Toronto

Ph.D. Statistics
M.Sc. Statistics
B.A.Sc. Engineering Science

Sept 2017 – Expected 2023 June 2016

June 2015

RESEARCH ARTICLES

Riemannian Langevin Algorithm for Solving Semidefinite Programs

Mufan (Bill) Li and Murat A. Erdoqdu

To appear in Bernoulli (2022+), arXiv Preprint, arXiv:2010.11176

Student Research Presentation Award at Statistical Society of Canada (SSC) Annual Meeting 2021

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

Mufan (Bill) Li, Mihai Nica, and Daniel M. Roy

NeurIPS 2022 (Selected for oral, nominated for award), arXiv Preprint, arXiv:2206.02768

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

Raphaël Berthier and Mufan (Bill) Li

IMA Journal of Applied Mathematics (2022), arXiv Preprint, arXiv:2202.10742

Analysis of Langevin Monte Carlo from Poincaré to Log-Sobolev

Sinho Chewi, Murat A. Erdogdu, Mufan (Bill) Li, 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

Mufan (Bill) Li, Mihai Nica, and Daniel M. Roy NeurIPS 2021, arXiv Preprint, arXiv:2106.04013

Higher Order Generalization Error for First Order Discretization of Langevin Diffusion

Mufan (Bill) Li and Maxime Gazeau

arXiv Preprint, arXiv:2102.06229

AWARDS

Ontario Graduate Scholarship

University of Toronto

2019-2023

MITACS Accelerate Fellowship

with Borealis AI

August 2018

Faculty of Applied Science and Engineering Undergraduate Summer Research Fellowship

 ${\rm May}\ 2012$

 $with\ Professor\ Birsen\ Donmez$

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 $Toronto, ON$