## Mufan (Bill) Li

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DEGREES	Ph.D. Statistics, University of Toronto Thesis: Analysis of Learning Algorithms via Diffusion Limits Supervised by Daniel M. Roy and Murat A. Erdogdu	2017-2023
	M.Sc. Statistics, University of Toronto	2015-2016
	B.A.Sc. Engineering Science, University of Toronto	2010-2015
RESEARCH	See also my Google Scholar or Semantic Scholar pages.	
ARTICLES	1. Matthew Zhang, Sinho Chewi, <b>M. Li</b> , Krishnakumar Balasubramanian, and Murat A. Erdogdu, <i>Improved Discretization Analysis for Underdamped Langevin Monte Carlo</i> . To appear at COLT 2023. arXiv:2302.08049.	
	2. M. Li and Murat A. Erdogdu, Riemannian Langevin Algorithm for Solving Semidefinite Programs. To appear in Bernoulli (2023+). arXiv:2010.11176.	
	3. M. Li, Mihai Nica, and Daniel M. Roy, <i>The Neural Covariance SDE: Shaped Infinite Depth-and-Width Networks at Initialization</i> . NeurIPS 2022 (Selected for Oral, Nominated for Award). arXiv:2206.02768.	
	4. Raphaël Berthier and M. Li, Acceleration of Gossip Algorithms through the Euler-Poisson-Darboux Equation. IMA Journal of Applied Mathematics (2022). arXiv:2202.10742.	
	5. Sinho Chewi, Murat A. Erdogdu, <b>M. Li</b> , Ruoqi Shen, and Matthew Zhang, Analysis of Langevin Monte Carlo from Poincaré to Log-Sobolev. COLT 2022 Extended Abstract. Under review at Ann. of Appl. Prob. arXiv:2112.12662.	
	6. M. Li, Mihai Nica, and Daniel M. Roy, The Future is Log-Gaussian: ResNets and Their Infinite-Depth-and-Width Limit at Initialization. NeurIPS (2021). arXiv:2106.04013.	
	7. M. Li, and Maxime Gazeau, Higher Order Generalization Error for First Order Discretization of Langevin Diffusion. Preprint (2021). arXiv:2102.06229	
AWARDS	Research Presentation Award, Stat. Soc. of Canada	2021
	Ontario Graduate Scholarship	2019-2023
	MITACS Accelerate Fellowship, with Borealis AI	2018-2019
	Undergraduate Summer Research Fellowship, University of Toron	to 2012
WORK	Research Intern, Borealis AI Au	ıg 2018 - Apr 2019
EXPERIENC	via	Jul 2016 - Jul 2017
	Electronic Trading Intern, RBC Capital Markets  Ma	ay 2013 - Aug 2014
INVITED TALKS	DeepProb, University of Oxford  Neural Covariance SDE: Shaped Infinite Depth-and-Width Network	Feb 2023
	OPTML++, MIT Neural Covariance SDE: Shaped Infinite Depth-and-Width Networ	Feb 2023
	Foundations of Deep Learning, University of Maryland Neural Covariance SDE: Shaped Infinite Depth-and-Width Networ	Sept 2022
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CONTRIBUTEDStatistical Society of Canada Annual MeetingMay 2023TALKSNeural Covariance SDE: Shaped Infinite Depth-and-Width Networks at InitializationInstitute of Mathematical Statistics Annual MeetingJune 2022

Analysis of Langevin Monte Carlo from Poincaré to Log-Sobolev

Statistical Society of Canada Annual Meeting May 2022

Analysis of Langevin Monte Carlo from Poincaré to Log-Sobolev

Statistical Society of Canada Annual Meeting May 2021

Riemannian Langevin Algorithm for Solving Semidefinite Programs

PEER Journal of Machine Learning Research (JMLR)
REVIEW Transactions on Machine Learning Research (T

Transactions on Machine Learning Research (TMLR) SIAM Journal on Mathematics of Data Science (SIMODS)

Journal of Computational and Graphical Statistics (JCGS)

Neural Information Processing Systems (NeurIPS)

International Conference on Learning Representations (ICLR)

International Conference on Machine Learning (ICML)