

Anming Gu

CONTACT INFORMATION	anminggu@utexas.edu https://anminggu.github.io/	
EDUCATION	The University of Texas at Austin Ph.D. in Computer Science advised by Kevin Tian	Austin, TX 2025 – 2030 (expected)
	Boston University B.A. in Computer Science, Minor in Mathematics Honors in major, <i>summa cum laude</i>	Boston, MA 2020 – 2024
RESEARCH INTERESTS	<ul style="list-style-type: none">optimal transport, log-concave sampling, optimizationdifferential privacy, and theoretical computer science, more broadlymachine learning theory, generative models	
PAPERS	As usual in the convention of theoretical computer science, authors are listed in alphabetical order, unless authors are starred. Then, the starred authors are (equal) first authors.	
	[1] Differentially Private Wasserstein Barycenters A. Gu*, S. Kunapuli, E. Chien, M. Bun, K. Greenewald. <i>In submission</i> . [arXiv]	
	[2] Mirror Mean-Field Langevin Dynamics A. Gu, J. Kim. <i>In submission</i> . [arXiv]	
	[3] Private Continuous-Time Synthetic Data Generation via Mean-Field Langevin Dynamics A. Gu*, E. Chien, K. Greenewald [arXiv]	
	[4] Compute-Optimal LLMs Provably Generalize Better with Scale M. A. Finzi*, S. Kapoor, D. Granziol, A. Gu, C. De Sa, J. Z. Kolter, A. G. Wilson. ICLR 2025 . [arXiv]	
	[5] Partially Observed Trajectory Inference using Optimal Transport and a Dynamics Prior A. Gu*, E. Chien, K. Greenewald. ICLR 2025 . [arXiv] Preliminary version in OPT 2024.	
	[6] k-Mixup Regularization for Deep Learning via Optimal Transport K. Greenewald*, A. Gu, M. Yurochkin, J. Solomon, E. Chien. TMLR 2023 . [arXiv]	
HONORS AND AWARDS	BU, CS Convocation Student Speaker [video] [media release] BU, Department of CS College Prize Undergraduate Research Opportunity Program (UROP) funding	2024 2024 2021
TALKS	k-Mixup Regularization for Deep Learning via Optimal Transport Boston University SIAM	March 2023
TEACHING EXPERIENCE	Boston University <i>Teaching Fellow</i> <ul style="list-style-type: none">CS565: Algorithmic Data MiningCS330: Analysis of AlgorithmsCS235: Algebraic AlgorithmsCS332: Theory of Computation	Boston, MA S25 S22, F24, S25 F24 S24

	• CS320: Concepts of Programming Languages	F23
WORK EXPERIENCE	Boston University, Department of Computer Science <i>Post-bacc Academic Fellow</i>	Boston, MA Sept 2024 – May 2025
	Amazon <i>Software Development Engineer Intern</i>	Sunnyvale, CA Summer 2023
	Capital One <i>Software Engineer Intern</i>	McLean, VA Summer 2022
SERVICE	• Reviewing: AISTATS 26, ICLR (25-26), NeurIPS 25	
SKILLS	• Languages: Python, C/C++, OCaml, Java, Bash, MATLAB • Technologies: PyTorch, TensorFlow, Pandas, Jupyter Notebook • Other: Linux, Git/Github, L ^A T _E X, Make	
SELECT PHD COURSEWORK	UT Austin Advances in Deep Generative Models, Theoretical Statistics (expected), Continuous Algorithms (expected)	
	Boston University Complexity Theory, Mathematical Methods for TCS, Machine Learning, Mathematics of Deep Learning, Functional Analysis, PDEs, Stochastic Calculus, Seminar on Stochastic PDEs	