

# Shivam Gupta

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EDUCATION	<b>University of Texas at Austin</b> Ph.D. in Computer Science (Advisor: Eric Price) <b>Coursework:</b> Probability and Stochastic Processes, Learning Theory, Coding Theory, Theoretical Statistics, Randomized Algorithms, Markov Chains and Mixing Time, Numerical Linear Algebra, Wireless Networking <b>Teaching assistant</b> for Computer Programming (Fall 2018), Data Analytics (Spring 2019), Machine Learning (Summer 2019, Fall 2019), Algorithms & Complexity (Spring 2020), Sublinear Algorithms (Fall 2020)	Aug 2018 – Present
	<b>University of Illinois at Urbana-Champaign</b> B.S. in Computer Science, Minor in Mathematics	May 2018
EXPERIENCE	<b>Massachusetts Institute of Technology</b> Visiting Student (Supervisor: Sam Hopkins)	Cambridge, MA Jun 2023 – Aug 2023
	<b>University of California, Berkeley</b> Visiting Student Researcher (Host: Jelani Nelson)	Berkeley, CA Aug 2022 – May 2023
	<b>Sigma Computing, Inc.</b> Research Intern	San Francisco, CA May 2022 – Aug 2022
	<b>University of Wisconsin, Madison</b> Research Intern (Supervisor: Ilias Diakonikolas)	Madison, WI May 2020 – Aug 2020
	<b>Jane Street</b> Software Developer Intern	New York, NY May 2016 – Aug 2016
	<b>Bloomberg L.P.</b> R&D Intern	New York, NY May 2015 – Aug 2015
PUBLICATIONS	<b>Sample-Efficient Training for Score-Based Diffusion</b> Shivam Gupta, Aditya Parulekar, Eric Price, Zhiyang Xun	In submission
	<b>Minimax-Optimal Location Estimation</b> Shivam Gupta, Jasper C.H. Lee, Eric Price, Paul Valiant	NeurIPS 2023
	<b>Finite-Sample Symmetric Mean Estimation with Fisher Information Rate</b> Shivam Gupta, Jasper C.H. Lee, Eric Price	COLT 2023
	<b>High-dimensional Location Estimation via Norm Concentration for Subgamma Vectors</b> Shivam Gupta, Jasper C.H. Lee, Eric Price	ICML 2023
	<b>Finite-Sample Maximum Likelihood Estimation of Location</b> Shivam Gupta, Jasper C.H. Lee, Eric Price, Paul Valiant	NeurIPS 2022
	<b>Outlier-Robust Sparse Estimation via Non-Convex Optimization</b> Yu Cheng, Ilias Diakonikolas, Rong Ge, Shivam Gupta, Daniel Kane, Mahdi Soltanolkotabi	NeurIPS 2022
	<b>Sharp Constants in Uniformity Testing via the Huber Statistic</b> Shivam Gupta, Eric Price	COLT 2022
	<b>Nash Equilibrium Computation in Resource Allocation Games</b> Shivam Gupta, Ruta Mehta	AAMAS 2018
SELECTED AWARDS	<ul style="list-style-type: none"><li>• C.W. Gear Outstanding Undergraduate Student Award 2018</li><li>• Conference Travel Grant 2018 (for travel to AAMAS)</li><li>• Horace and Kate King Wu International Undergraduate Scholarship 2018</li><li>• Illinois Engineering Achievement Scholarship 2017</li><li>• NTT Data, Inc., Scholarship 2015, 2016</li><li>• Franz Hohn and J.P. Nash Scholarship 2015 (for research in scientific computing)</li><li>• Perfect score in the Indian National Olympiad in Informatics, and selected as one of 26 students in India to attend the International Olympiad in Informatics training camp 2014</li><li>• ACM ICPC Mid-Central Regional: Team placed 6<sup>th</sup> in 2017, 4<sup>th</sup> in 2016</li><li>• Represented India in the SEARCC Software Competition 2013, Colombo, Sri Lanka, and placed 3<sup>rd</sup></li><li>• Placed 2<sup>nd</sup> in Dropbox Open programming contest 2015 at UIUC</li><li>• Won Bloomberg CodeCon Challenge and invited to CppCon 2015 in Bellevue, Washington</li><li>• Won 3Red Trading Tech Challenge in 2015 and 2016 and invited to Chicago</li></ul>	
REVIEWING	SODA 2021, 2024; NeurIPS 2023; ITCS 2024; ALT 2024; ICLR 2024	