

Shivam Gupta

shivamgupta@utexas.edu • +1 (217) 979-0641

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