

EDUCATION	New York University, Tandon School of Engineering <i>Ph.D. Candidate in Computer Science</i> Advisor: Christopher Musco Sept 2020 – Present
	International Institute of Information Technology, Bangalore <i>Bachelor and Master of Technology</i> Specialization: Theoretical Computer Science Thesis: Clustering Perturbation Resilient Instances Advisor: G. Srinivasaraghavan Aug 2013 – July 2018
EXPERIENCE	Visiting Researcher, INRIA Lille MODAL Team, INRIA Lille, France Advisor(s): Hemant Tyagi (INRIA), Mihai Cucuringu (Univ. of Oxford) Oct 2019 – Jan 2020
	Project Associate, IISc Bangalore Department of CSA, Indian Institute of Science (IISc) Advisor(s): Anand Louis (IISc), Amit Deshpande (Microsoft Research) Aug 2018 – Aug 2019
	Narendra Summer Intern, IISc Bangalore Department of CSA, Indian Institute of Science Advisor: Anand Louis Summer 2017
PUBLICATIONS ($\alpha - \beta$)	<ol style="list-style-type: none"> Sharper Bounds for Chebyshev Moment Matching with Applications to Differential Privacy and Beyond (with Cameron Musco, Christopher Musco, and Lucas Rosenblatt) <i>Abstract at TPDP 2024, (Link)</i> Faster Spectral Density Estimation and Sparsification in the Nuclear Norm (with Yujia Jin, Ishani Karmarkar, Christopher Musco, and Aaron Sidford) <i>COLT 2024, (Link)</i> Moments, Random Walks, and Limits for Spectrum Approximation (with Yujia Jin, Christopher Musco, and Aaron Sidford) <i>COLT 2023, (Link)</i> Regularized Spectral Methods for Clustering Signed Networks (with Mihai Cucuringu, Deborah Sulem, and Hemant Tyagi) <i>JMLR 2021, (Link)</i> On Euclidean k-Means Clustering with α-Center Proximity (with Amit Deshpande, and Anand Louis) <i>AISTATS 2019, (Link)</i> Approximation Algorithms for Cost-Balanced Clustering (with Amit Deshpande, Anand Louis, and Deval Patel) <i>Preprint 2019, (Link)</i>
TEACHING	NYU CS-GY 3943: Graph Visualization Algorithms Grader and Teaching Assistant. Spring 2024
	NYU CS-GY 6763: Algorithmic Machine Learning and Data Science Head Teaching Assistant: Recitation, Office Hours, and Grading. Fall 2023

	<ul style="list-style-type: none"> • E0306: Deep Learning, Theory and Practice Grader for the course at IISc Bangalore • E0203: Spectral Algorithms Grader for the course at IISc Bangalore 	<p>Spring 2019</p> <p>Spring 2018</p>
SERVICE	<ul style="list-style-type: none"> • Program Committee: Algorithmic Learning Theory (ALT) 2024 • External Reviewer: FOCS 2022, STOC 2023, ICALP 2024, ESA 2024, APPROX 2024. 	
PRESENTATIONS (selected)	<ul style="list-style-type: none"> • Sharper Bounds for Chebyshev Moment Matching at Aaron Sidford's group meeting at Stanford 2024. • Faster Spectral Density Estimation and Sparsification in the Nuclear Norm at COLT 2024. • Moments, Random Walks, and Limits for Spectrum Approximation at DIMACS Rutgers, IISc Bangalore, COLT 2023, and CS Theory Lunch Seminar at Stanford 2024. • Reading Group Presentations on Discrepancy Theory, Kadison-Singer Problem, Second Moment Methods, and Sum of Squares Methods, and Counting Bases of Matroids. • Euclidean k-Means with Center Proximity at ICTS-TIFR, INRIA Lille, IIIT Bangalore, and AISTATS 2019. 	
MISCELLANEOUS	<ul style="list-style-type: none"> • Organizing a reading group on Extremal Graph Theory in Fall 2023. • Lead a reading group on Probabilistic Combinatorics in Spring 2023. • Selected for the 2022 summer school on New tools for optimal mixing of Markov chains: Spectral independence and entropy decay, organized at the University of California at Santa Barbara. • Selected for the 2022 Swedish Summer School on Theoretical Computer Science organized by KTH. 	
RELEVANT COURSES	<ul style="list-style-type: none"> • Probability Theory • Intro to Analysis 2 • Probabilistic Combinatorics • Concentration of Measure • Algorithmic ML & DS • Bayesian ML • Info Thy Methods in Stats • Mathematical Statistics • Rand Numerical LA 	