

APOORV VIKRAM SINGH

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RESEARCH	My research interests lie at the intersection of computer science and statistical machine learning. Currently, I am working on problems in the area of spectral algorithms, clustering, and algorithms & lower-bounds for graph spectrum estimation.		
EDUCATION	New York University, Tandon School of Engineering <i>Ph.D. Student in Computer Science</i> Sept 2020 - Present Advisor: Christopher Musco		
	International Institute of Information Technology, Bangalore <i>Integrated Masters of Technology</i> Aug 2013 - July 2018 Information Technology, Specialization: Theoretical Computer Science Thesis: Clustering Perturbation Resilient Instances Advisor: G. Srinivasaraghavan		
EXPERIENCE	Visiting Researcher, INRIA Lille Oct 2019 - Jan 2020 MODAL Team, INRIA Lille, France Advisor(s): Hemant Tyagi (INRIA), Mihai Cucuringu (Univ. of Oxford)		
	Project Associate, IISc Bangalore Aug 2018 - Aug 2019 Department of CSA, Indian Institute of Science (IISc) Advisor(s): Anand Louis (IISc), Amit Deshpande (Microsoft Research)		
	Narendra Summer Intern, IISc Bangalore Summer 2017 Department of CSA, Indian Institute of Science Advisor: Anand Louis		
PUBLICATIONS	<ol style="list-style-type: none">1. Regularized Spectral Methods for Clustering Signed Networks (with Mihai Cucuringu, Deborah Sulem, and Hemant Tyagi) <i>JMLR 2021</i>, (Link)2. On Euclidean k-Means Clustering with α-Center Proximity (with Amit Deshpande and Anand Louis) <i>AISTATS 2019</i>, (Link)3. Approximation Algorithms for Cost-Balanced Clustering (with Amit Deshpande, Anand Louis, and Deval Patel) <i>Preprint 2019</i>, (Link)		
TEACHING	<ul style="list-style-type: none">. E0306: Deep Learning, Theory and Practice Spring 2019 Grader for the course at IISc Bangalore. E0203: Spectral Algorithms Spring 2018 Grader for the course at IISc Bangalore		
NYU COURSES	Probability Theory 1 & 2 Intro to Analysis 2 Advanced ML	Concentration of Measure Algorithmic ML & DS Bayesian ML	Info Thy Methods in Stats Mathematical Statistics Inference & Representation