

# APOORV VIKRAM SINGH

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EDUCATION	<b>New York University, Tandon School of Engineering</b> <i>Ph.D. Student in Computer Science</i> Advisor: Christopher Musco Sept 2020 – Present
	<b>International Institute of Information Technology, Bangalore</b> <i>Integrated Masters of Technology</i> Information Technology, Specialization: Theoretical Computer Science Thesis: <a href="#">Clustering Perturbation Resilient Instances</a> Advisor: G. Srinivasaraghavan Aug 2013 – July 2018
EXPERIENCE	<b>Visiting Researcher, INRIA Lille</b> MODAL Team, INRIA Lille, France Advisor(s): Hemant Tyagi (INRIA), Mihai Cucuringu (Univ. of Oxford) Oct 2019 – Jan 2020
	<b>Project Associate, IISc Bangalore</b> Department of CSA, Indian Institute of Science (IISc) Advisor(s): Anand Louis (IISc), Amit Deshpande (Microsoft Research) Aug 2018 – Aug 2019
	<b>Narendra Summer Intern, IISc Bangalore</b> Department of CSA, Indian Institute of Science Advisor: Anand Louis Summer 2017
PUBLICATIONS	<ol style="list-style-type: none"><li><b>Moments, Random Walks, and Limits for Spectrum Approximation</b> (with Yujia Jin, Christopher Musco, and Aaron Sidford) <i>COLT 2023</i>, <a href="#">(Link)</a></li><li><b>Regularized Spectral Methods for Clustering Signed Networks</b> (with Mihai Cucuringu, Deborah Sulem, and Hemant Tyagi) <i>JMLR 2021</i>, <a href="#">(Link)</a></li><li><b>On Euclidean <math>k</math>-Means Clustering with <math>\alpha</math>-Center Proximity</b> (with Amit Deshpande, and Anand Louis) <i>AISTATS 2019</i>, <a href="#">(Link)</a></li><li><b>Approximation Algorithms for Cost-Balanced Clustering</b> (with Amit Deshpande, Anand Louis, and Deval Patel) <i>Preprint 2019</i>, <a href="#">(Link)</a></li></ol>
TEACHING	<ul style="list-style-type: none"><li><b>E0306: Deep Learning, Theory and Practice</b> Grader for the course at IISc Bangalore Spring 2019</li><li><b>E0203: Spectral Algorithms</b> Grader for the course at IISc Bangalore Spring 2018</li></ul>
NYU COURSES	<ul style="list-style-type: none"><li>• Probability Theory 1 &amp; 2</li><li>• Intro to Analysis 2</li><li>• Advanced ML</li><li>• Concentration of Measure</li><li>• Algorithmic ML &amp; DS</li><li>• Bayesian ML</li><li>• Info Thy Methods in Stats</li><li>• Mathematical Statistics</li><li>• Rand Numerical LA</li></ul>
SERVICE	Sub-reviewer for FOCS 2022, STOC 2023