

# Govind S. Sankar

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RESEARCH INTERESTS	Matching problems, Online Algorithms, Parameterized Complexity, Approximation Algorithms and Approximability		
EDUCATION	<b>Duke University</b> , Durham, USA <span>2021 - Present</span> PhD Student, Department of Computer Science.		
	<b>Indian Institute of Technology, Madras</b> , Chennai, India <span>2016 - 2021</span> Dual Degree (Bachelor + Master) of Technology in Electrical Engineering. CGPA: 9.53/10 Minor in Computing.		
PUBLICATIONS	<ol style="list-style-type: none"><li>1. <b>Govind S. Sankar</b>, Anand Louis, Meghana Nasre, and Prajakta Nimbhorkar. Matchings with group fairness constraints: Online and offline algorithms. In <i>Proceedings of the Twenty-Ninth International Joint Conference on Artificial Intelligence, (IJCAI)</i>, 2021</li><li>2. Dániel Marx, <b>Govind S. Sankar</b>, and Philipp Schepper. Degrees and gaps: Tight complexity results of general factor problems parameterized by treewidth and cutwidth. In <i>48th International Colloquium on Automata, Languages, and Programming, (ICALP)</i>, 2021</li></ol>		
TEACHING EXPERIENCE	<b>Teaching Assistant</b> , Indian Institute of Technology, Madras <ul style="list-style-type: none"><li>• Pseudorandomness Graduate elective with <math>\sim 5</math> students.</li><li>• Advanced Graph Algorithms Graduate elective with <math>\sim 20</math> students.</li><li>• Languages, Machines and Computation Undergraduate core course with <math>\sim 80</math> students.</li></ul> Graded assignments and tests, held office hours, and conducted tutorial sessions.		
RELEVANT COURSEWORK	<ul style="list-style-type: none"><li>• Approximation Algorithms</li><li>• Theory of Computation</li><li>• Pseudorandomness</li><li>• Game Theory</li><li>• Sublinear Algorithms</li><li>• Computability &amp; Complexity</li><li>• Cryptography</li><li>• Information Theory</li><li>• Design &amp; Analysis of Algorithms</li><li>• Topics in Complexity Theory</li><li>• Theory Toolkit</li><li>• GPU Programming</li></ul>		
PROFESSIONAL EXPERIENCE	<b>Agnikul Cosmos</b> <span>Chennai, India</span> <i>Software Development Intern</i> <span>Dec 2017 - Aug 2018</span> Developed a Matlab-based tool to simulate the trajectory of a rocket. The tool was validated by members of the Indian Space Research Organization (ISRO) and National Institute of Advanced Studies.		
MISCELLANEOUS	<ul style="list-style-type: none"><li>• Volunteer for the National Service Scheme, India in the Science Teaching Kit project aimed at introducing children from rural areas to Science.</li><li>• Headed the Quiz Club at IIT Madras and managed a team of 20 coordinators that oversaw all quizzing activities at the Indian Insititute of Technology, Madras.</li></ul>		
HONOURS AND AWARDS	<ul style="list-style-type: none"><li>• KVPY Fellowship (2014)</li><li>• NTSE Scholarship (2012)</li></ul>		