

Govind S. Sankar

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EDUCATION

Duke University, Durham, USA

2021 - Present

PhD Student, Department of Computer Science.

Indian Institute of Technology, Madras, Chennai, India

2016 - 2021

Dual Degree (Bachelor + Master) of Technology in Electrical Engineering.

CGPA: 9.53/10

Minor in Computing.

PUBLICATIONS

Authors in alphabetical order, unless otherwise noted*.

1. Aditya Bhaskara, Sreenivas Gollapudi, Sungjin Im, Kostas Kollias, Kamesh Munagala, and **Govind S. Sankar**. Data exchange markets via utility balancing. *ArXiv*, abs/2401.13053, 2024. To appear in WWW 2024
2. Kamesh Munagala, **Govind S. Sankar**, and Erin Taylor. Probabilistic Metric Embedding via Metric Labeling. In *Approximation, Randomization, and Combinatorial Optimization. Algorithms and Techniques (APPROX/RANDOM)*, 2023
3. Jacob Focke, Dániel Marx, Fionn Mc Inerney, Daniel Neuen, **Govind S. Sankar**, Philipp Schepper, and Philip Wellnitz. Tight complexity bounds for counting generalized dominating sets in bounded-treewidth graphs. In *Proceedings of the 2023 Annual ACM-SIAM Symposium on Discrete Algorithms (SODA)*, 2023
4. Dániel Marx, **Govind S. Sankar**, and Philipp Schepper. Anti-Factor Is FPT Parameterized by Treewidth and List Size (But Counting Is Hard). In *17th International Symposium on Parameterized and Exact Computation (IPEC)*, 2022
5. Santhini K. A., **Govind S. Sankar***, and Meghana Nasre. Optimal matchings with one-sided preferences: Fixed and cost-based quotas. In *International Conference on Autonomous Agents and Multiagent Systems, (AAMAS)*, 2022
6. Dániel Marx, **Govind S. Sankar**, and Philipp Schepper. Degrees and gaps: Tight complexity results of general factor problems parameterized by treewidth and cutwidth. In *48th International Colloquium on Automata, Languages, and Programming, (ICALP)*, 2021
7. **Govind S. Sankar***, Anand Louis, Meghana Nasre, and Prajakta Nimbhorkar. Matchings with group fairness constraints: Online and offline algorithms. In *Proceedings of the Twenty-Ninth International Joint Conference on Artificial Intelligence, (IJCAI)*, 2021

TEACHING

EXPERIENCE

Teaching Assistant, Duke University

- COMPSCI230 : *Discrete Math*

Jan - Apr 2022

Undergraduate course with ~ 120 students.

- COMPSCI230 : *Discrete Math*

Aug - Dec 2021

Undergraduate course with ~ 120 students.

Teaching Assistant, Indian Institute of Technology, Madras

- CS6845 : *Pseudorandomness*

Feb - May 2021

Graduate elective with ~ 5 students.

- CS6130 : *Advanced Graph Algorithms*

Sep - Dec 2020

Graduate elective with ~ 20 students.

- CS2200 : *Languages, Machines and Computation*

Jan - May 2020

Undergraduate core course with ~ 80 students.

RELEVANT COURSEWORK	<ul style="list-style-type: none"> • Approximation Algorithms • Theory of Computation • Parameterized Complexity • Cryptography • Database Systems 	<ul style="list-style-type: none"> • Sublinear Algorithms • Computability & Complexity • Pseudorandomness • Information Theory 	<ul style="list-style-type: none"> • Design & Analysis of Algorithms • Topics in Complexity Theory • Boolean Functions • Game Theory
PROFESSIONAL EXPERIENCE	<p>Agnikul Cosmos</p> <p>Software Development Intern Dec 2017 - Aug 2018</p> <p>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, India.</p>		
HONOURS AND AWARDS	<ul style="list-style-type: none"> • Institute Merit Prize (IIT Madras, 2020) • KVPY Fellowship (2014) • NTSE Scholarship (2012) 		
MISCELLANEOUS	<ul style="list-style-type: none"> • Volunteer for the National Service Scheme, India. Participant in the Science Teaching Kit project, aimed at introducing children from rural areas to Science through easy to understand experiments. • Headed the Quiz Club, and managed a team of 20 coordinators that oversaw all quizzing activities at the Indian Insititute of Technology, Madras. 		