

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

1. 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
2. **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
3. 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

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

- | | | |
|----------------------------|------------------------------|-----------------------------------|
| • Approximation Algorithms | • Sublinear Algorithms | • Design & Analysis of Algorithms |
| • Theory of Computation | • Computability & Complexity | • Topics in Complexity Theory |
| • Parameterized Complexity | • Pseudorandomness | • Boolean Functions |
| • Cryptography | • Information Theory | • Game Theory |
| • Database Systems | | |

PROFESSIONAL EXPERIENCE

Agnikul Cosmos

Software Development Intern

Dec 2017 - Aug 2018

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.

HONOURS AND AWARDS

- Institute Merit Prize (IIT Madras, 2020)
- KVPY Fellowship (2014)
- NTSE Scholarship (2012)

MISCELLANEOUS

- 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.