

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. 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
2. 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
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
4. 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
5. **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*
Undergraduate course with ~ 120 students.
- COMPSCI230 : *Discrete Math*
Undergraduate course with ~ 120 students.

Jan - Apr 2022

Aug - Dec 2021

Teaching Assistant, Indian Institute of Technology, Madras

- CS6845 : *Pseudorandomness*
Graduate elective with ~ 5 students.
- CS6130 : *Advanced Graph Algorithms*
Graduate elective with ~ 20 students.
- CS2200 : *Languages, Machines and Computation*
Undergraduate core course with ~ 80 students.

Feb - May 2021

Sep - Dec 2020

Jan - May 2020

RELEVANT

COURSEWORK

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

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.