

Rameesh Paul

PHD STUDENT · COMPUTER SCIENCE AND AUTOMATION

Indian Institute of Science, Bangalore, Karnataka

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Research Interests

- APPROXIMATION ALGORITHMS, GRAPH ALGORITHMS, SPECTRAL GRAPH THEORY
- CONVEX OPTIMIZATION, SEMIDEFINITE PROGRAMMING, SUM-OF-SQUARES/LASSERRE HIERARCHIES
- RANDOMNESS, BEYOND WORST CASE ANALYSIS OF ALGORITHMS, RANDOMIZED AND ONLINE ALGORITHMS
- COMBINATORIAL OPTIMIZATION, LINEAR PROGRAMMING

Education

Indian Institute of Science

PHD STUDENT IN COMPUTER SCIENCE AND AUTOMATION

- Advisor: Dr. Anand Louis

Bangalore, Karnataka

Aug 2021 - present

Indian Institute of Science

M.TECH (RESEARCH) IN COMPUTER SCIENCE AND AUTOMATION

- Advisor: Dr. Anand Louis

Bangalore, Karnataka

Aug 2019 - Jul 2021

PEC University of Technology

BE IN ELECTRONICS AND ELECTRICAL COMMUNICATION

Chandigarh

Aug 2010 - Jun 2014

Professional Experience

- 2018-2019 **Research Assistantship**, IIT Bombay
- 2018 **Lead Engineer**, Samsung Research Institute, Noida
- 2014-2018 **Engineer**, Samsung Research Institute, Noida

Publications

Yash Khanna, Anand Louis, and Rameesh Paul. **Independent Sets in Semi-random Hypergraphs**. In 17th Algorithms and Data Structures Symposium (WADS), 2021. <https://arxiv.org/abs/2104.00927>

Akash Kumar, Anand Louis, and Rameesh Paul. **Exact recovery algorithm for Planted Bipartite Graph in Semi-random Graphs**. (Accepted to 49th EATCS International Colloquium on Automata, Languages and Programming (ICALP), 2022). <https://arxiv.org/abs/2205.03727>

Talks Given

May 2021. **Independent Sets in Semi-random Hypergraphs**. 12th EECS Students Research Symposium, Virtual talk. <https://www.youtube.com/watch?v=FdwcJw8MSAA>

Aug 2021. **Independent Sets in Semi-random Hypergraphs**. 17th Algorithms and Data Structures Symposium (WADS), Virtual talk.

Feb 2022. **Independent Sets in Semi-random Hypergraphs**. ACM-India 16th Academic Research and Careers for Students (ARCS), Virtual talk. <https://www.youtube.com/watch?v=FWGFdz1r660>

Teaching Experience

- Fall 2020 **Design and Analysis of Algorithms**, Teaching Assistant

Workshops Attended _____

- Mar 2022 **Recent Trends in Algorithms**, Attended virtually
- Feb 2022 **ACM-India Academic Research and Careers for Students Symposium**, Attended virtually
- Feb 2020 **Recent Trends in Algorithms**, IIT Gandhinagar

Graduate Courses Credited _____

- Spring 2022 **Pattern Recognition and Neural Networks**
- Fall 2021 **Stochastic Models and Applications**
- Fall 2021 **Foundations of Data Science**
- Fall 2021 **Set systems and hypergraphs**
- Spring 2020 **Approximation Algorithms**
- Spring 2020 **Convex Optimization**
- Fall 2019 **Design and Analysis of Algorithms**