

Sumegha Garg

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| CONTACT INFORMATION | Sumegha Garg 35 Olden Street Princeton, NJ-08540, USA | https://www.cs.princeton.edu/~sumeghag/ sumeghag@cs.princeton.edu |
| RESEARCH ADVISOR | Mark Braverman | |
| EDUCATION | PhD in Computer Science Princeton University , Princeton, NJ, USA | 2015 - present GPA : 4.0/4.0 |
| | Bachelor of Technology Computer Science and Engineering Indian Institute of Technology, Delhi | 2011 - 2015 GPA : 9.65/10 Dept. Rank : 2/60 |
| RESEARCH PAPERS | Mark Braverman, Sumegha Garg. The Role of Randomness and Noise in Strategic Classification. <i>In Submission.</i> | |
| | Sumegha Garg, Michael P. Kim, Omer Reingold. Tracking and Improving Information in the Service of Fairness. <i>In Submission.</i> | |
| | Sumegha Garg, Ran Raz, Avishay Tal. Time-Space Lower Bounds for Two-Pass Learning. <i>In Submission.</i> | |
| | Sumegha Garg, Jon Schneider. The Space Complexity of Mirror Games. PDF <i>ITCS 2019</i> . | |
| | Mark Braverman, Gil Cohen, Sumegha Garg. Hitting Sets with Near-Optimal Error for Read-Once Branching Programs. PDF <i>STOC 2018</i> Invited to the SICOMP Special Issue for STOC 2018. | |
| | Sumegha Garg, Ran Raz, Avishay Tal. Extractor-Based Time-Space Lower Bounds for Learning. PDF <i>STOC 2018</i> . | |
| | Mark Braverman, Sumegha Garg, Ariel Schwartzman. Network coding in undirected graphs is either very helpful or not helpful at all. PDF <i>ITCS 2017</i> Invited Paper. | |
| | Sumegha Garg, Henry Yuen and Mark Zhandry. New security notions and feasibility results for authentication of quantum data. PDF <i>QCrypt 2016 Crypto 2017</i> . | |
| TEACHING ASSISTANT | COS 522: Computational Complexity in Spring 2017 (Princeton) CS IW 05: Developing a Technology Startup Venture in Spring 2017 (Princeton) COS 487: Theory of Computation in Fall 2016 (Princeton) COL106/CSL201: Data Structures in Spring 2015 (IIT Delhi) | |
| INTERNSHIPS | Summer 2018: On <i>Algorithmic Fairness</i> with Omer Reingold, Stanford University. Summer 2014: On <i>Unitary Matrices with Large Permanent</i> with Scott Aaronson, Massachusetts Institute of Technology. | |

SCHOLASTIC
ACHIEVEMENTS

Awarded Gordon Y.S. Wu Fellowship in Engineering at Princeton University.

Won Gold Medal at 42nd International Physics Olympiad (IPhO 2011), held at Bangkok, ranked 11 among 393 students from around 80 nations.

Secured an all-India rank of 12 in IIT-JEE 2011, among over 400,000 applicants.

Among top 35 of India to qualify the Indian National Mathematics Olympiad (2010) and attend the selection camp for International Mathematics Olympiad 2010.

Awarded Institute Medal for Academic Excellence (IIT Delhi) for the year 2011-12 and IITD Semester Merit Award for every semester.

Awarded Aditya Birla Scholarship (2011-15), given to 12 engineering undergraduates annually all over India.

Awarded Honda Y-E-S Award (2013-14), given to 14 students annually all over India.