

Siddhartha Jain

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EDUCATION

IIIT-DELHI

BTECH IN COMPUTER SCIENCE & APPLIED MATHEMATICS
May 2020 | New Delhi, India
Cum. GPA: 9.2 / 10
Major GPA: 9.55 / 10

SANSKRITI SCHOOL

May 2016 | New Delhi, India

LINKS

LinkedIn:// [akareddy](#)

Twitter:// [@sidjai](#)

COURSEWORK

GRADUATE

Randomised Algorithms (A-)
Complexity Theory (A)

UNDERGRADUATE

Modern Algorithm Design (A)
Theory of Computation (A)
Discrete Structures (A)
Combinatorics (A)
Linear Optimisation (A)
Number Theory (A+)
Abstract Algebra I (A)
Abstract Algebra II (A-)
Intro to Dynamical Systems (A)
Competitive Programming 1 (A)
Linear Algebra (A-)

SKILLS

TYPESETTING

LaTeX

PROGRAMMING

Python • Julia • C++

Java • Matlab

INTERESTS

RESEARCH

Randomised Algorithms
Approximation Algorithms
Fine Grained Complexity
Combinatorial/Computational Geometry

OTHER

Photography
Reading
Creative Writing
Badminton
Gaming

EXPERIENCE

ITCS@SUFU | RESEARCH ASSISTANT

May 2019 - Present | Shanghai, China
Supervisor: **Prof Bundit Laekhanukit**

IIIT-DELHI | TEACHING ASSISTANT

Aug 2018 - Nov 2018 | New Delhi, India
Discrete Structures

ACM INDIA | SUMMER SCHOLAR

June 2017 - July 2017 | IIT Gandhinagar

- Selected to attend school on Graph Theory and Algorithms.
- The school had the objective of motivating research and promoting collaboration.

RESEARCH

BACHELOR'S THESIS | GUILLOTINE CUTS AND PATTERN AVOIDANCE IN PERMUTATIONS

May 2018 - May 2019

Advisors: **Prof Rajiv Raman, Prof Samrith Ram.**

Worked on Guillotine Cuts for Axis Parallel Rectangles presented directly in **On Guillotine Cutting Sequences** [Abed Chalemsook et al]. In particular we want to know if one can always save $\Omega(n)$ rectangles and exactly what fraction is feasible. Such a lower bound would imply a polytime constant approximation for MISR (Maximum Independent Set on Rectangles) as explained in linked paper.

PROJECTS

ARGH! | ALGORITHMS READING GROUP HOUR

Jan 2019 - Present

Website [link](#).

EXTERNAL REVIEWER | JOURNAL OF COMPUTER AND SYSTEM SCIENCES

Oct 2018 - Nov 2018

Supervisor: **Prof Debajyoti Bera**

ACHIEVEMENTS

2018-19 Dean's List IIIT-Delhi
2019 Top 2 CMI **STEMS** CS (Camp Selection)

POSITIONS OF RESPONSIBILITY

ÉVARISTE MATH CLUB | FOUNDER AND COORDINATOR

Mar 2017 - Present

Website [link](#).

- 40+ active members, 8 innovative events per semester
- Organising **Convergence** along with Math dept of IIIT-Delhi

STUDENT SENATE | BATCH REPRESENTATIVE + DAC REPRESENTATIVE

April 2018 - Present

- Representing CSAM 2016 batch
- Representing entire student body in Disciplinary Action Committee