

# Siddhartha Jain

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## EDUCATION

### IIIT-DELHI

**BTECH IN COMPUTER SCIENCE & APPLIED MATHEMATICS**  
May 2020 | New Delhi, India  
Cum. GPA: 9.06 / 10.0  
Major GPA: 9.49 / 10.0

### 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 INTERN

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 Chahermsook 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 <b>STEMS</b> 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