

# 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@SUFE | RESEARCH INTERN

May 2019 - Present | Shanghai, China

Supervisor: **Prof Bundit Laekhanukit**

### IISC | SUMMER SCHOLAR

July 2019 | Bangalore, India

Selected for scholarship to attend the summer school on the topic **Mathematics in Data Science** organised by IFCAM.

### 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**. It 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 Chalermsook et al], which would imply a polytime  $O(1)$  approximation algorithm for MISR. We found an interesting link with Pattern Matching in Permutations.

## 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, and the entire student body in Disciplinary Action Committee