

Siddhartha Jain

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EDUCATION

IIIT-DELHI

BTECH IN COMPUTER SCIENCE &
APPLIED MATHEMATICS

May 2020 | New Delhi, India

Cum. GPA: 9.22 / 10

Major GPA: 9.56 / 10

SANSKRITI SCHOOL

May 2016 | New Delhi, India

LINKS

Website: sidjain.me

Github:// [siddjai](https://github.com/siddjai)

LinkedIn:// [akareddy](https://www.linkedin.com/in/akareddy)

Twitter:// [@sidjai](https://twitter.com/sidjai)

COURSEWORK

GRADUATE†

Randomised Algorithms (A-)

Complexity Theory (A)

Abstract Algebra II (A-)

Quantum Computing (R*)

Advanced Linear Algebra (R*)

Approx Algorithms (R*)

Combinatorial Optimisation (R*)

UNDERGRADUATE

Modern Algorithm Design (A)

Theory of Computation (A)

Discrete Structures (A)

Combinatorics (A)

Linear Optimisation (A)

Number Theory (A+)

Abstract Algebra I (A)

Intro to Dynamical Systems (A)

Competitive Programming 1 (A)

Scientific Computing (A)

Linear Algebra (A-)

* R - Registered

† - Course level 500+

SKILLS

LaTeX • Python • Julia

C++ • Java • Matlab

HOBBIES

Photography

Creative Writing

Badminton

EXPERIENCE

ISRAEL INSTITUTE FOR ADVANCED STUDIES | SCHOLAR

Dec 2019 | Jerusalem, Israel

Accepted to the Winter School on Mathematics of Quantum Computation.

ITCS@SUFU | RESEARCH INTERN

May 2019 - July 2019 | Shanghai, China

Supervisor: Prof Bundit Laekhanukit. Related Preprint on ArXiv.

INDIAN INSTITUTE OF SCIENCE | SUMMER SCHOLAR

July 2019 | Bangalore, India

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

IIIT-DELHI | TEACHING ASSISTANT

Aug 2018 - Nov 2018 | New Delhi, India

Course: Discrete Structures

RESEARCH

BACHELOR'S THESIS | GUILLOTINE CUTS AND PATTERN AVOIDANCE

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.

INDEPENDENT PROJECT | ONLINE MATCHING

Aug 2019 - Present

Supervisor: Prof Syamantak Das

PROJECTS

INDEPENDENT STUDY | ALGORITHMS FOR BIG DATA

Aug 2019 - Nov 2019

Supervisor: Prof Rajiv Raman. Studying and presenting topics in and related to Streaming/Sketching to Prof Rajiv and some of my peers.

EXTERNAL REVIEWER | JOURNAL OF COMPUTER AND SYSTEM SCIENCES

Oct 2018 - Nov 2018

Supervisor: Prof Debajyoti Bera. Found flaw in claimed proof of $NL = P$.

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 - May 2019

Website link. 40+ active members, 8 innovative events per semester. Organised Convergence along with Math dept of IIIT-Delhi.

STUDENT SENATE | BATCH REPRESENTATIVE + DAC REPRESENTATIVE

April 2018 - Aug 2019

Representing CSAM 2016 batch, and the entire student body in Disciplinary Action Committee.