

# Siddhartha Jain

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## Education

2020 - 2022	<b>MSc. in Computer Science</b> École Polytechnique Fédérale de Lausanne (EPFL)
2016 - 2020	<b>BTech. in Computer Science &amp; Applied Mathematics</b> Indraprastha Institute of Information Technology (IIITD)

## Publications

FOCS'21 (Invited to Special Issue)	<b>Unambiguous DNFs and Alon-Saks-Seymour</b> with <a href="#">Mika Göös (EPFL)</a> , <a href="#">Shalev Ben-David (UWaterloo)</a> , <a href="#">Robin Kothari (Microsoft Research)</a> , <a href="#">Kaspars Balodis (ULatvia)</a>
In submission	<b>Further Collapses in TFNP</b> with <a href="#">Mika Göös</a> , <a href="#">Gilbert Maystre (EPFL)</a> , <a href="#">Alexandros Hollender (Oxford)</a> , <a href="#">Robert Robere</a> , <a href="#">Ran Tao</a> , <a href="#">William Pires (McGill)</a> We show the surprising collapse: $\text{EoPL} = \text{PLS} \cap \text{PPAD}$ . A <a href="#">talk</a> by Mika on Nov 22.
In preparation	<b>Separations in Proof Complexity and TFNP</b> with <a href="#">Mika Göös</a> , <a href="#">Gilbert Maystre (EPFL)</a> , <a href="#">Alexandros Hollender (Oxford)</a> , <a href="#">Robert Robere</a> , <a href="#">Ran Tao</a> , <a href="#">William Pires (McGill)</a> We show new oracle separations for TFNP subclasses.
In preparation	<b>Communication Complexity of Collision</b> with <a href="#">Mika Göös (EPFL)</a> We prove a polynomial lower bound for a natural two party version of the Collision problem: decide whether a given function is 2-1 or 1-1.

## Projects

<b>Unsupervised Preprocessing for Clustering</b> with <a href="#">Shay Ben-Elazar (Microsoft Research)</a> , <a href="#">Vincent Cohen-Addad (Google Research)</a> , <a href="#">Karthik CS (Rutgers)</a>
<b>Probabilistic &amp; Interactive Proofs</b> with <a href="#">Alessandro Chiesa (UC Berkeley, EPFL)</a>

## Employment

2021-2022	<b>MSc. Research Scholar   EPFL</b> Part of the Research Scholar program by the IC department, working with <a href="#">Mika Göös (EPFL)</a> .
2019	<b>Research Intern   ITCS Shanghai</b> Summer intern with <a href="#">Bundit Laekhanukit (SUFU)</a> .

## Honors & Awards

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2021	Paper invited to SICOMP Special Issue of FOCS 2021
2021	MSc. Research Scholar (EPFL)
2020	Graduation with Honors (IIITD)
2019	Scholarship: <a href="#">Quantum Computation</a> Winter school (IIAS)
2019	Scholarship: <a href="#">Data Science</a> Summer school (IIISc)
2019	Dean's list (IIITD)

## Miscellaneous

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Languages	<b>Hindi:</b> native <b>English:</b> fluent (written and spoken) <b>French:</b> some
Programming	Python, $\LaTeX$ , Java (some), scala (some)
Service	ICALP22
Coursework (EPFL)	Advanced Algorithms (6/6), Probabilistic Methods in Combinatorics (5.75/6), Computational Complexity (6/6), Information Theory & Coding (6/6)
Coursework (IIITD)	Modern Algorithm Design (A), Randomised Algorithms (A-), Combinatorics and Its Applications (A), Complexity Theory (A), Theory of Computation (A), Discrete Structures (A), Abstract Algebra (A), Number Theory (A+)