Siddhartha Jain

Lausanne, Switzerland ✉ siddhartha.jain@epfl.ch sidjain.me

Education

2020 - 2022 **MSc. in Computer Science**
École Polytechnique Fédérale de Lausanne (EPFL)

2016 - 2020 **BTech. in Computer Science & Applied Mathematics**
Indraprastha Institute of Information Technology (IIITD)

Publications

FOCS'21 (Invited to Special Issue) **Unambiguous DNFs and Alon-Saks-Seymour**

with Mika Göös (EPFL), Shalev Ben-David (UWaterloo), Robin Kothari (Microsoft Research), Kaspars Balodis (ULatvia)

In preparation **Communication Complexity of Collision**
with Mika Göös (EPFL)
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.

In preparation **EOPL = PPAD ∩ PLS**
with Mika Göös, Gilbert Maystre (EPFL), Alexandros Hollender (Oxford), Robert Robere, Ran Tao, William Pires (McGill)
A talk by Mika on this project on Nov 22.

In preparation **Resolution, Sherali-Adams, and TFNP**
with Mika Göös, Gilbert Maystre (EPFL), Alexandros Hollender (Oxford), Robert Robere, Ran Tao, William Pires (McGill)
We show new oracle separations for TFNP subclasses.

Projects

Unsupervised Preprocessing for Clustering
with Shay Ben-Elazar (Microsoft Research), Vincent Cohen-Addad (Google Research), Karthik CS (Rutgers)

Probabilistic & Interactive Proofs
with Alessandro Chiesa (UC Berkeley, EPFL)

Employment

2021-2022 **MSc. Research Scholar | EPFL**
Part of the Research Scholar program by the IC department, working with Mika Göös (EPFL).

2019 **Research Intern | ITCS Shanghai**
Summer intern with Bundit Laekhanukit (SUFE).

Honors & Awards

2021	Paper invited to SICOMP Special Issue of FOCS 2021
2021	MSc. Research Scholar (EPFL)
2020	Graduation with Honors (IIITD)
2019	Scholarship: Quantum Computation Winter school (IIAS)
2019	Scholarship: Data Science Summer school (IISc)
2019	Dean's list (IIITD)

Miscellaneous

Languages	**Hindi:** native **English:** fluent (written and spoken) **French:** some
Programming	Python, LaTeX, Java (some), scala (some)
Service	ICALP21
Coursework	Advanced Algorithms, Learning Theory, Probabilistic Methods in Combinatorics, Spectral Graph Algorithms, Computational Complexity, Information Theory & Coding, Cryptography & Security