

Siddhartha Jain

Austin, TX, USA

✉ sidjain@cs.utexas.edu

🏠 sidjain.me

Education

- 2022 - present **PhD. in Computer Science**
The University of Texas at Austin (UT Austin)
Advisor: Scott Aaronson
- 2020 - 2022 **MSc. in Computer Science**
École Polytechnique Fédérale de Lausanne (EPFL)
- 2016 - 2020 **BTech. in Computer Science & Applied Mathematics**
IIT Delhi

Manuscripts

- preprint **Consumable Data via Quantum Communication**
with Dar Gilboa, Jarrod McClean
- preprint **Quantum Communication Advantage in TFNP**
with Mika Göös, Tom Gur, Jiawei Li

Publications

- FOCS'24 **Pigeonhole Principle and Ramsey in TFNP**
with Jiawei Li, Robert Robere, Zhiyang Xun
- RANDOM'22 **Communication Complexity of Collision**
with Mika Göös
- FOCS'22 **Separations in Proof Complexity and TFNP**
with Mika Göös, Gilbert Maystre, Alexandros Hollender, Robert Robere, Ran Tao, William Pires
- CCC'22 **Further Collapses in TFNP**
with Mika Göös, Gilbert Maystre, Alexandros Hollender, Robert Robere, Ran Tao, William Pires
- FOCS'21
(Invited to Special Issue) **Unambiguous DNFs and Alon-Saks-Seymour**
with Mika Göös, Shalev Ben-David, Robin Kothari, Kaspars Balodis

Employment

- 2022 - present **Graduate Research Assistant | UT Austin**
Working at QIC with Scott Aaronson.
- 2021 - 2022 **MSc. Research Scholar | EPFL**
Part of the Research Scholar program by the IC department, working with Mika Göös (EPFL).

Honors & Awards

2021	Paper invited to SICOMP Special Issue of FOCS 2021
2021	MSc. Research Scholar (EPFL)
2020	Graduation with Honors (IIITD)
2019	Dean's list (IIITD)
Travel grants	Swiss Winter School on Theoretical Computer Science 2023, FOCS'22 NSF Travel grant, IAS Quantum Computation Winter School 2019, IISc Data Science Summer School 2019

Academic

Service (external reviewer)	SODA('25), ITCS('25, '23), QIP('24), CCC('23,'24), TQC('24), ICALP('21, '22), FSTTCS ('22,'23)
Coursework (UT Austin)	Learning Theory (A), Pseudorandomness (A), Combinatorics and Graph Theory (A)
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+)

Skills

Languages	Hindi: native English: fluent (written and spoken) French: beginner
Programming	Lean, Python, \LaTeX , Java (intermediate), scala (intermediate), Qiskit (beginner)

References

Scott Aaronson	aaronson@cs.utexas.edu Schlumberger Centennial Chair of Computer Science The University of Texas at Austin
Mika Göös	mika.goos@epfl.ch Assistant Professor in the School of Computer and Communication Sciences École Polytechnique Fédérale de Lausanne (EPFL)
Tom Gur	tom.gur@cl.cam.ac.uk Associate Professor in the Department of Computer Science and Technology University of Cambridge