

Vaibhav KRISHAN

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RESEARCH POSITIONS

Postdoctoral Fellow The Institute of Mathematical Sciences, Chennai 2024-Present
COMPUTER SCIENCE

EDUCATION

Doctoral Student Indian Institute of Technology Bombay 2017-2024
COMPUTER SCIENCE AND ENGINEERING CPI: 9.09/10

Bachelor of Technology Indian Institute of Technology Bombay 2009-2013
COMPUTER SCIENCE AND ENGINEERING CPI: 7.59/10
Entrance Exam Rank: 22

JOURNAL PUBLICATIONS

Algorithmica 2022 | A #SAT Algorithm for Small Constant-depth Circuits with PTF gates
with Swapnam Bajpai, Deepanshu Kush, Nutan Limaye and Srikanth Srinivasan
Algorithmica 84, 1132-1162 (2022).

CONFERENCE PUBLICATIONS

CSR 2021 | Upper Bound for Torus Polynomials
The 16th International Computer Science Symposium in Russia, CSR 2021.

ITCS 2019 | A #SAT Algorithm for Small Constant-depth Circuits with PTF gates
with Swapnam Bajpai, Deepanshu Kush, Nutan Limaye and Srikanth Srinivasan
The 10th 10th Innovations in Theoretical Computer Science Conference, ITCS 2019.

PREPRINTS

ECCC | Towards ACC Lower Bounds using Torus Polynomials
with Sundar Vishwanathan
ECCC | MidBit⁺, Torus Polynomials and Non-classical Polynomials: Equivalences for ACC Lower Bounds
ECCC | Isolation Lemma for Directed Reachability and NL vs. L
with Nutan Limaye

TALKS AND PRESENTATIONS

Presentation	Upper Bound for Torus Polynomials The 16th International Computer Science Symposium in Russia, CSR 2021. (online)
Presentation and Poster	A #SAT Algorithm for Small Constant-depth Circuits with PTF gates The 10th Innovations in Theoretical Computer Science Conference, ITCS 2019.

SERVICE AND ENGAGEMENT

Sub-reviewer	Computational Complexity Conference (CCC) 2024.
Sub-reviewer	Foundations of Software Technology and Theoretical Computer Science (FSTTCS) 2024
Volunteer	FSTTCS 2019

TEACHING ASSISTANCE

- Awarded best TA of the month for Automata Theory.
- Awarded best TA for CS 101.

PROFESSIONAL EXPERIENCE

- As Quantitative Strategy Developer for around 3.5 years.
- As Data Scientist for around 1 year.
- As Software Engineer for around 6 months.

PERSONAL DETAILS

D.O.B.	09 th December 1993
Sex	Male
Nationality	Indian