

Vaibhav KRISHAN

Phone: +91-8454937541
Personal email: vaibhkrishan@gmail.com
Official emails: vaibhavk@imsc.res.in
Profile pages: [Homepage](#), [DBLP](#), [Google Scholar](#), [ECCC \(Personal account\)](#), [ORCID](#)

RESEARCH POSITIONS

PDF (TCS) The Institute of Mathematical Sciences July 2024-Present

EDUCATION

Ph.D. COMPUTER SCIENCE AND ENGINEERING	Indian Institute of Technology Bombay Advised by Prof. Sundar Vishwanathan and Prof. Nutan Limaye	July 2017-May 2024
B.Tech. COMPUTER SCIENCE AND ENGINEERING	Indian Institute of Technology Bombay CPI: 7.59/10	July 2009-May 2013

JOURNAL PUBLICATIONS

Algorithmica A #SAT Algorithm for Small Constant-depth Circuits with PTF gates with S. Bajpai, D. Kush, N. Limaye and S. Srinivasan
Algorithmica 84, 1132-1162 (2022).

CONFERENCE PUBLICATIONS

ITCS 2026	Lower Bounds and Separations for Torus Polynomials with S. Vishwanathan The 17 th Innovations in Theoretical Computer Science Conference, 2026 (to appear).
CSR 2021	Upper Bound for Torus Polynomials The 16th International Computer Science Symposium in Russia, 2021.
ITCS 2019	A #SAT Algorithm for Small Constant-depth Circuits with PTF gates with S. Bajpai, D. Kush, N. Limaye and S. Srinivasan The 10 th Innovations in Theoretical Computer Science Conference, 2019.

PREPRINTS

ECCC Isolation Lemma for Directed Reachability and NL vs. L
with N. Limaye

TALKS AND PRESENTATIONS

Lecture	Polynomials and Computation Foundational Lecture Series on TCS, IMSc, 2025.
Presentation	Upper Bound for Torus Polynomials CSR 2021. (online)
Presentation and Poster	A #SAT Algorithm for Small Constant-depth Circuits with PTF gates 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.
- TA duty for complexity theory, design and analysis of algorithms, and combinatorics.

PROFESSIONAL EXPERIENCE

- Freelance work in quantitative trading for multiple clients since May '22.
- Quantitative Research Consultant for AlphaGrep, and for 5-Swans, during official break from PhD June '21-May '22.
- As Quantitative Developer in AlphaGrep from June '16-July 17 and Jan '14-May '15.
- As Data Scientist in Housing.com from May '15-May '16.
- As Software Engineer in Samsung from July '13-Dec '13.

PERSONAL DETAILS

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