

# Vaibhav KRISHAN

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## RESEARCH POSITIONS

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

## EDUCATION

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**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

## JOURNAL PUBLICATIONS

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**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

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**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 Innovations in Theoretical Computer Science Conference, ITCS 2019.

## PREPRINTS

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**ECCC** Towards ACC Lower Bounds using Torus Polynomials with Sundar Vishwanathan  
**ECCC** MidBit<sup>+</sup>, 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

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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

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

## TEACHING ASSISTANCE

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

## PROFESSIONAL EXPERIENCE

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- 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

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D.O.B. 09<sup>th</sup> December 1993  
Sex Male  
Nationality Indian