

Vaibhav KRISHAN

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EDUCATION

Doctoral Student COMPUTER SCIENCE AND ENGINEERING	Indian Institute of Technology Bombay CPI: 9.09/10	2017-Present
Bachelor of Technology COMPUTER SCIENCE AND ENGINEERING	Indian Institute of Technology Bombay CPI: 7.59/10 Entrance Exam Rank: 22	2009-2013

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).
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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	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.

TEACHING ASSISTANCE

- CS 310(Automata Theory, twice, awarded best TA of the month)
- CS 721(Introduction to Computational Complexity)
- CS 601 (Algorithms and Complexity)
- CS 101 (Computer Programming and Utilization, awarded best TA)
- CS 767 (Theoretical Machine Learning)
- CS 779 (Extremal Combinatorics)

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.

COURSES UNDERTAKEN DURING PHD

Maths	Advanced Probability Theory Commutative Algebra Topics in Algebra (Tropical Algebraic Geometry).
Electrical	Random Graphs: Theory and Applications.
Computer Science	Formal Models for Concurrent and Asynchronous Systems Combinatorics.

PERSONAL DETAILS

D.O.B.	09 th December 1993
Sex	Male
Nationality	Indian
Marital Status	Married
Languages	English, Hindi