

# Devansh Shringi

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## Education

### University of Toronto

Ph.D. in Computer Science

• GPA - 4.0/4.0(ongoing) Supervisor- Prof. Shubhangi Saraf

Toronto, Canada

Sept. 2022-Present

### Indian Institute of Technology, Kanpur

Dual BT-MT in Computer Science and Engineering

• M. Tech CPI - 10.0/10.0 Supervisor- Prof. Nitin Saxena

• B. Tech CPI - 9.7/10.0

Kanpur, India

Jul 2017 - May 2022

## Research Interests

Algebraic Complexity, Computational Complexity Theory, Pseudorandomness, Computational Algebra, Algebraic Complexity

## Publications

### Reconstruction of Depth 3 Arithmetic Circuits with Top Fan-in 3

Shubhangi Saraf, Devansh Shringi

• Submitted

November 2024

### Faster & Deterministic FPT Algorithm for Worst-Case Tensor Decomposition

Vishwas Bhargava, Devansh Shringi

• Submitted

[paper]

July 2024

### On the Multilinear Complexity of Associative Algebras

Markus Bläser, Hendrik Mayer, Devansh Shringi

• 40th International Symposium on Theoretical Aspects of Computer Science (STACS 2023)

[paper]

September 2022

### Explicit Construction of Local Ramanujan Graphs of $q+1$ degree for almost all prime power $q$

Rishabh Batra, Nitin Saxena, Devansh Shringi

• Journal of Computational Complexity

[paper]

May 2022

## Teaching Experience

### TA-Graduate courses

Algebraic Gems in TCS, Expanders and Pseudorandom Graphs, Computational Complexity, Algebraic Complexity

University of Toronto

Sep. 2022 - Apr. 2025

### TA-UG Courses

Formal Languages and Automata; Computational Complexity and Computability; Introduction to the Theory of Computation; Algorithm Design, Analysis and Complexity; Algorithmic Game Theory and Mechanism Design

University of Toronto

Sep. 2022 - Apr. 2025

### TA/Tutor-UG Courses IITK

Probability for Computer Science; Logic; Algorithms II; Fundamentals of Computing

IIT Kanpur

Oct. 2020 - Apr. 2022

## Honors & Awards

2022	Research Fellow, Saarland University
2022	Proficiency Medal(Best Master Thesis in Computer Science), Convocation 2022, IIT Kanpur
2020	DAAD-WISE scholarship, for research in Summer 2020(Redacted due to COVID)
2017	AIR 52 JEE Main, AIR 179 JEE Advance,
2016	Bronze Medal at IOAA 2016, representing India in International Astronomy and Astrophysics Olympiad
2016, 2017	Qualified INMO, INChO, INPhO, INAO, Top 35 in each field (Maths, Chemistry, Physics, Astronomy) in India

## Other Professional Activities

Reviewed For SOCG, SICOMP, FOCS, ICALP