Devansh **Shringi**

(+1) 4168192287 | devansh.shringi99@gmail.com | devansh99.github.io/

Education

University of Toronto	*Toronto, Canada*
Ph.D. in Computer Science	*Sept. 2022-Present*

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

Indian Institute of Technology, Kanpur	*Kanpur, India*
Dual BT-MT in Computer Science and Engineering	*Jul 2017 - May 2022*

- **M. Tech CPI - 10.0/10.0**   Supervisor- **Prof. Nitin Saxena**
- **B. Tech CPI - 9.7/10.0**

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**   *November 2024*

- Submitted

Faster & Deterministic FPT Algorithm for Worst-Case Tensor Decomposition   *[paper]*

Vishwas Bhargava, **Devansh Shringi**   *July 2024*

- Submitted

On the Multilinear Complexity of Associative Algebras   *[paper]*

Markus Bläser, Hendrik Mayer, **Devansh Shringi**   *September 2022*

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

Explicit Construction of Local Ramanujan Graphs of q+1 degree for almost all prime power q   *[paper]*

Rishabh Batra, Nitin Saxena, **Devansh Shringi**   *May 2022*

- Journal of Computational Complexity

Teaching Experience

Algebraic Gems in TCS, Expanders and Pseudorandom Graphs, Computational Complexity, Algebraic Complexity	*University of Toronto*
TA-Graduate courses	*Sep. 2022 - Apr. 2025*
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*
TA-UG Courses	*Sep. 2022 - Apr. 2025*
Probability for Computer Science; Logic; Algorithms II; Fundamentals of Computing	*IIT Kanpur*
TA/Tutor-UG Courses IITK	*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