

## Education

- 2019–2025 **Indian Institute of Technology, Bombay**,  
*Computer Science and Engineering*, Ph.D, Advisor: Prof. Rohit Gurjar.  
CGPA – 9.65/10
- 2015–2019 **Indian Institute of Technology, Varanasi (BHU)**,  
*Computer Science and Engineering*, B.Tech.  
CGPA – 9.18/10

## Publications

- Matroids are Equitable**,  
with Hannaneh Akrami and László Végh, [\[arxiv\]](#).  
Under Submission
- Characterizing and Testing Principal Minor Equivalence of Matrices II**,  
with Abhranil Chatterjee, Sumanta Ghosh and Rohit Gurjar, [\[pdf\]](#).  
Under Submission
- Characterizing and Testing Principal Minor Equivalence of Matrices**,  
with Abhranil Chatterjee, Sumanta Ghosh and Rohit Gurjar, [\[arxiv\]](#).  
ACM Symposium on Theory of Computing (STOC) 2025.
- Fractional Linear Matroid Matching is in quasi-NC**,  
with Rohit Gurjar and Taihei Oki, [\[pdf\]](#).  
European Symposium on Algorithms (ESA) 2024.
- Border Complexity of Symbolic Determinant under Rank One Restriction**,  
with Abhranil Chatterjee, Sumanta Ghosh and Rohit Gurjar, [\[pdf\]](#).  
Computational Complexity Conference (CCC) 2023.
- A Deterministic Parallel Reduction from Weighted Matroid Intersection Search to Decision**,  
with Sumanta Ghosh and Rohit Gurjar, [\[pdf\]](#),  
ACM-SIAM Symposium on Discrete Algorithms (SODA) 2022.

## Internships

- Jan-Feb 2025 **University of Bonn**, *Visiting PhD Student*, Hosted by Prof. László Végh.
- Jun-July 2024 **Keio University, Tokyo**, *Visiting PhD Student*, Hosted by Prof. Naonori Kakimura.
- May-Jul 2022 **IISc Bangalore**, *Visiting PhD Student*, Hosted by Prof. Siddharth Barman.
- May-Jul 2018 **Amazon Hyderabad**, *SDE Intern*.

## Workshops Attended

- Mar 2023 **7th Workshop on Algebraic Complexity Theory (WACT)**, *University of warwick*, [\[Talk link\]](#).
- Dec 2022 **GIAN course on parameterized methods in randomized algorithms**, *IIT Gandhinagar*, Taught by: Prof. Daniel Lokshtanov.

## Teaching Assistantship

- IIT Bombay **Design and Analysis of Algorithms, Algorithms and Complexity, Topics in Computational Complexity, Applied Algorithms and Extremal Combinatorics.**
- NPTEL **Randomized Methods in Complexity.**

## Miscellaneous

Reviewer for FSTTCS, 2020.

Selected for the Prime Minister Research Fellowship (PMRF) for PhD.

Selected for the Kishore Vaigyanik Protsahan Yojna (KVPY) Fellowship.