

## Education

- 2019–Present **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

- Fractional Linear Matroid Matching is in quasi-NC**,  
with Rohit Gurjar and Taihei Oki, [\[arxiv\]](#).  
To appear at 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.

## 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.**

## Internships

- May-Jul 2022 **IISc Bangalore**, *Visiting PhD Student*, Supervision: Prof. Siddharth Barman.  
◦ Assuming White's Conjecture to be true, we gave a randomized pseudo-polynomial time algorithm to find an EF1 allocation under linear matroid constraint for agents with identical additive valuation functions.
- 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.

## Miscellaneous

- Reviewer for FSTTCS, 2020.
- Selected for the Prime Minister Research Fellowship (PMRF) for PhD.
- Selected for the Kishore Vaigyanik Protsahan Yojna (KVPY) Fellowship.