

Sunaina Pati

EDUCATION

Chennai Mathematical Institute

BSc (honours) in Computer Science and Mathematics

India

Aug 2023 – Present

RESEARCH EXPERIENCE AND READING PROJECTS

Lie algebra reading project

under professor Apoorva Khare

May 2024 – Aug 2024

Indian Institute of Science (IISc)

- Read and discussed the book, Introduction to lie algebra by Karin Erdmann and Mark J. Wildon.
- Learnt about Lie algebra and representation theory
- Write ups available [here](#)

Algorithms research project

under professor Prajakta Nimbhorkar

June 2024 – Present

Chennai Mathematical Institute

- Reading about Algorithms in Algebra and Number theory

TEACHING EXPERIENCE

Algebra-1 Teaching Assistant

Under professor Aditya Karnataki

August 2024-Present

Chennai Mathematical Institute (CMI)

- To grade quizzes and multiple problem sets

Teacher and grader

European Girls' Mathematical Olympiad Training Camp

December 2023

Chennai Mathematical Institute (CMI)

- Taught multiple classes on Olympiad geometry and graded the team selection tests.

Counsellor (teaching assistant)

PROMYS India

May 2024 – June 2024

Indian Institute of Science (IISc)

- Graded multiple Problem sets on Number theory and mentored students.

AWARDS

European Girls' Mathematical Olympiad

2023

- Awarded silver medal at EGMO 2023 held at Slovenia representing India .

PROMYS India

2023

- One of the 24 Indian Students accepted to the rigorous 6 week program and was awarded Mehta-fellowship.

Spirit of Ramanujan fellowship

2022, 2023

- Was awarded Spirit of Ramanujan fellowship (6000 dollars each) in 2023 and 2022 to fund my studies.

International Mathematical Olympiad Training Camp (IMOTC)

2021,2022,2023

- was among the top 30 students in India and was invited for IMO Team selection tests in 2021,2022 and 2023

European Girls' Mathematical Olympiad Training Camp (EGMOTC)

2021,2022

- was among the top performing female students in India and was invited for EGMO Team selection tests in 2021 and 2022

PRESENTATIONS

Calkin Wilf Tree

CMI STEMs Camp

2024

Chennai Mathematical Institute (CMI)

- discussed about calkin-wilf tree and its properties and the algebraic formula. [Slides link here](#)