

EDUCATION

- **Indiana University Bloomington, USA** 2022 - present
PhD, *Mathematics*
 - *Advisor: Dylan P. Thurston*
- **Institute of Mathematics and Applications, India** (*Affiliated to the Utkal University*) 2019 - 2021
MA/MSc, *Mathematics with Data Science*
 - *Advisor: Manas R. Mohapatra*
- **Ewing Christian College, India** (*Affiliated to the University of Allahabad*) 2015 - 2018
BSc, *Major in Mathematics & Physics*

RESEARCH INTERESTS

Low-dimensional topology and hyperbolic geometry, focusing on Floer homology invariants of links, 3- and 4-manifolds, and hyperbolic knot theory.

TALKS

- Indiana University Bloomington, USA
 - Heegaard Floer Homology and Knots, Graduate Student Seminar 2025
 - Basic Knot Theory and Jones Polynomial, TQFT Learning Seminar 2025
 - On the Non-Genericity of Hyperbolic Knots (2 talks), Knot Theory Learning Seminar 2025
 - Introduction to Heegaard Floer Homology (2 talks), Topology and Friends Graduate Student Seminar 2025
 - Introduction to Hyperbolic Knot Theory, Graduate Student Seminar 2024
 - Hyperbolic Structures on the Knot Complements, Topology and Friends Graduate Student Seminar 2024
 - Mirzakhani's Generalization of the McShane's Identity, Teichmüller Theory Seminar (3 talks) 2024

TEACHING

- Indiana University Bloomington, USA
 - Recitation: M212 Calculus II Fall 2024
 - Grade: M343 Differential Equations with Applications Summer 2024
 - Recitation: M106 Math of Decision and Beauty Su '23, F '23, S '24, S '25, Su '25
 - Grade: M415 Complex Variables Spring 2023
 - Grade: M301 Linear Algebra and Applications Fall 2022
- Part-time Teaching Assistant, *Uma Coaching Institute, India* 2016 - 2017

AWARDS AND ACHIEVEMENTS

- Co-organizer, *Graduate Student Topology and Geometry Conference, Indiana University Bloomington, USA* 2025
- Glen Schober Memorial Travel Award, *Indiana University Bloomington, USA* 2023 & 2024
- Hazel King Thompson Fellowship, *Indiana University Bloomington, USA* 2023
- Volunteer, *48th Annual Conference of Odisha Mathematical Society at IMA, India* 2021
- All India Rank 4, *IMA MA/MSc Entrance Examination, India* 2019
- Deputy Co-editor of Tarun Mitra, *Tarun Shanti Sena, Ewing Christian College, India* 2018
- Winner of Mathematics Exhibition, *Maharishi Regional Cultural Celebration, India* 2014

REFERENCES

- Dylan P. Thurston, *Indiana University Bloomington, USA*
- Manas R. Mohapatra, *Kalinga Institute of Industrial Technology, India*
- Sudhansu S. Rout, *National Institute of Technology Calicut, India*