# Urshita Pal

University of Michigan
Department of Mathematics
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urshitapal.github.io

## Education

**University of Michigan, USA**
Ph.D., Mathematics, Expected 2026.
Advisor: Jenny Wilson

**Chennai Mathematical Institute, India**
B.Sc., Mathematics & Computer Science, 2018-21.

## Research Interests

Group Cohomology, Representation Theory, Braids & Configuration Spaces

## Teaching

**University of Michigan**
Instructor, Math 115, Winter 2023
Instructor, Math 115, Fall 2022
Instructor, Math 115, Winter 2022
Instructor, Math 115, Fall 2021

**Chennai Mathematical Institute**
Teaching Assistant, NPTEL Rings & Fields, Jan-March 2021
Teaching Assistant, Topology, Spring 2021
Teaching Assistant, Complex Analysis, Spring 2021
Teaching Assistant, Analysis 3, Fall 2020
Teaching Assistant, Probability Theory, Spring 2020

## Awards and Fellowships

**Gold Medal of Excellence, BSc Math & Computer Science**
Chennai Mathematical Institute, 2021

**Tuition Fee Waiver**
Chennai Mathematical Institute, Aug 2018 - April 2021

**Bronze Medal, European Girls Math Olympiad**
Held in Florence, Italy, 2018

**International Math Olympiad Training Camp, Mumbai, India**
Selected for Participation, 2017 & 2018

## Talks

**Student Seminars**
-*Higher Dimensional Cohomology of $SL_n\mathbb{Z}$*, Winter 2023
-*Grassmannian Cohomology and Symmetric Polynomials*, Winter 2023
-*A Gentle Introduction to Representation Stability*, Fall 2022
-*The Combinatorial Nullstellensatz and its Applications*, Winter 2022
-*Braid Groups*, Fall 2021

## Service and Mentorship

**Student Dynamics/Geometry/Topology Seminar**
-*Co-organiser for the Academic Year 2022-23*

**AWM Mentor-Mentee Program**
-*Mentor for the Academic Year 2022-23*

**Michigan Directed Reading Program**
-*Mentor, Winter 2023*

**Michigan Math Club**
-*Fagnano's Problem and Reflecting Triangles*, Jan 2023

**Michigan Math Circle**
-*Tiling With Dominoes*, Feb 2022

## Conferences and Workshops

- Nearly Carbon Neutral Geometric Topology Conference, September 2022
(Attended Topic Group: Group Actions on Hyperbolic Spaces)

- Michigan Research Experience for Graduates, June 2022
(Project Topic: *Braids and Polynomials*)

## Languages and Skills

Hindi, English, Bengali (native); German (basic)
LaTeX, C++, Haskell, Python, Java