

Xiyang Zhong

Max Planck Institute for Mathematics
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RESEARCH INTERESTS Geometric group theory, mapping class groups, group cohomology.

EMPLOYMENT	Max Planck Institute for Mathematics	Bonn, Germany
	Mentor: Ursula Hamenstädt	08/2025-

EDUCATION	University of Notre Dame	South Bend, IN
	Ph.D. in Mathematics	08/2020-05/2025

Advisor: Andrew Putman

Peking University Beijing, China
 B.S. in Mathematics 07/2020

PAPERS 1. *Prym Representations and Twisted Cohomology of the Mapping Class Group with Level Structures.* To appear in *Geometry and Topology*. arXiv: 2401.13869

2. *Linear representations of the mapping class group of dimension at most $3g-3$.* Joint with Julian Kaufmann, Nick Salter, and Zhong Zhang. Preprint. arXiv: 2507.11365

INVITED TALKS *Prym Representations and Twisted Cohomology of the Mapping Class Group with Level Structures.*

Conference on Discrete Groups in Topology and Algebraic
Geometry at the University of Notre Dame 06/2025

Workshop on the mapping class group in Tokyo 05/2025

58th Spring Topology and Dynamics Conference 03/2025

AMS Special Session on “Cohomology of Arithmetic Groups,
Mapping Class Groups, and Moduli Spaces” 01/2025

Geometry and Topology Research Seminar at Georgia Tech 11/2024

Topology Students Workshop at Vanderbilt University 06/2024

Notre Dame Graduate Student Seminar 02/2024

EXPOSITORY TALKS	<i>The Teichmüller Space of a Surface</i>	
	Notre Dame Graduate Student Seminar	03/2023
	Mini-course (4 talks) on <i>Homological Stability of Mapping Class Groups</i>	
	Notre Dame Graduate Student Topology Seminar	09/2022
	<i>Applications of PL Morse theory on finiteness properties of groups</i>	
	Notre Dame Graduate Student Topology Seminar	12/2021
	<i>Correspondence between groups and actions on trees</i>	
	Notre Dame Graduate Student Topology Seminar	11/2020
SEMINARS ORGANIZED	Notre Dame Graduate Student Topology Seminar	Fall 2022
TEACHING EXPERIENCE	Teaching Assistant, Linear Algebra and Differential Equations	Spring 2025
	Instructor, Calculus A	Fall 2023
	Teaching Assistant, Calculus III	Spring 2023
	Teaching Assistant, Calculus II	Fall 2022
	Teaching Assistant, Calculus III	Spring 2022
	Teaching Assistant, Calculus A	Fall 2021
	Teaching Assistant, Mathematical Analysis II (Peking University)	Spring 2020
	Teaching Assistant, Mathematical Analysis I (Peking University)	Fall 2019
UNDERGRADUATE RESEARCH EXPERIENCE	<i>The image of the Johnson homomorphism for all compact surfaces</i>	Summer 2019
	Summer project at University of Oklahoma	
	Advised by Prof. Justin Malestein	
AWARDS	The Richard Sady Dissertation Prize	2025
	Honorable Mention in Alibaba Global Mathematics Competition	2022
	Undergraduate Research Fellowship at Peking University	2020
	Academic Scholarship at Peking University	2016-2019