Xiyan Zhong

University of Notre Dame
Department of Mathematics
255 Hurley Bldg
Notre Dame, IN 46556 USA

Webpage: https://xiyan-zhong.github.io/
Email: xzhong4@nd.edu

RESEARCH INTERESTS	Geometric group theory, mapping class groups, group cohomology.	
EDUCATION	**University of Notre Dame**	South Bend, IN
	Ph.D. candidate in Mathematics	08/2020-present
	Advisor: Andrew Putman	
	Peking University	Bejing, China
	B.S. in Mathematics	07/2020
PAPERS	1. *Prym Representations and Twisted Cohomology of the Mapping Class Group with Level Structures.* Preprint.	arXiv: 2401.13869
INVITED TALKS	TBA	
	Conference on Discrete Groups in Topology and Algebraic Geometry at the University of Notre Dame	06/2025
	Prym Representations and Twisted Cohomology of the Mapping Class Group with Level Structures.	
	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	*The Teichmüller Space of a Surface*	
	Notre Dame Graduate Student Seminar	03/2023
	Mini-course (4 talks) on *Homological Stability of Mapping Class Groups*	
	Notre Dame Graduate Student Topology Seminar	09/2022

	Applications of PL Morse theory on finiteness properties of groups Notre Dame Graduate Student Topology Seminar	12/2021
	Correspondence between groups and actions on trees Notre Dame Graduate Student Topology Seminar	11/2020
SEMINARS ORGANIZED	Notre Dame Graduate Student Topology Seminar	Fall 2022
TEACHING EXPERIENCE	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
CONFERENCES ATTENDED	AIM workshop "Motives and mapping class groups" Caltech	01/2025
	Topology Student Workshop Vanderbilt University	06/2024
	Mid-Atlantic Topology Conference Northeastern University	03/2024
	$\mathrm{Mod}(M^4)$ minicourse University of Chicago	08/2022
	Stability in Topology, Arithmetic, and Representation Theory Purdue University	03/2022
UNDERGRADUATE RESEARCH EXPERIENCE	*The image of the Johnson homomorphism for all compact surfaces* Summer project at University of Oklahoma Advised by Prof. Justin Malestein	Summer 2019
AWARDS	Honorable Mention in Alibaba Global Mathematics Competition	2022
	Undergraduate Research Fellowship at Peking University	2020
	Academic Scholarship at Peking University	2016-2019