

Ping Wan

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Research Interests	My principal interest is Geometric Group Theory. Currently I'm studying quasi-convex subgroups of relatively hyperbolic groups and acylindrically hyperbolic groups. I'm also interested in other nonpositively curved groups and their action on metric spaces.		
Academic Backgroup	<i>Ph.D. Mathematics</i>		May 2027 (expected)
	Univeristy of Illinois Chicago , Illinois, USA		
	<i>B.S. Mathematics</i>		2020
	Sun Yat-Sen University , Guangdong, China		
Publications	<i>Preprint</i>		
	• A Notion of Quasiconvex Subgroups in Acylindrically Hyperbolic Groups		
	Arxiv		2025
	<i>In Preparation</i>		
	• On an Improper Action on CAT(0) Cube Complexes		2026 (expected)
Presentations and Posters	<i>Presentations</i>		
	• Convex Core of Relatively QuasiconvexS Subgroup		
	2026 Wasatch Topology Conference		August 2026
	• Quasi-convex Subgroups of Acylindrically Hyperbolic Groups		
	2026 AMS Spring Central Sectional Meeting		April 2026
	59th Spring Topology and Dynamics Conference (Invited)		March 6
	Binghamton University Graduate Combinatorics, Algebra, and Topology Conference		November 2025
	Midwest Summer School in Geometry, Topology, and Dynamics		June 2025
	• Relatively Hyperbolic and Acylindrically Hyperbolic Dehn Filling		
	Temple University GSCAGT		May 2023
	• Relatively Hyperbolic Dehn Filling		
	Graduate Student Colloquium		April 2023
	<i>Poster Sessions</i>		
	• $(G, \mathcal{P})$ -Quasi-convex Subgroups of Acylindrically Hyperbolic Groups		
	AWM Research Symposium 2025		May 2025
	Young Geometric Group Theory XIII		April 2025
	68th Texas Geometry and Topology Conference		November 2024
Conferences and Workshops	• Recent Progress in Topological and Geometric Structures in Low Dimensions		
	SLMath		March 2026
	• Summer 2025 Wasatch Topology Conference		
	DoubleTree by Hilton Hotel, Park City, Utah		August 2025

	• Thematic Program in Discrete Groups in Topology and Algebraic Geometry University of Notre Dame June 2025 • Riverside Workshop on Geometric Group Theory University of Virginia May 2025 • Midwest Dynamic System Conference Northwestern University April 2025 • Geometry, Groups and Dynamics Workshop Purdue University March 2025 • Riverside Workshop in Geometric Group Theory University of California, Riverside May 2024 • 66th Texas Geometry and Topology Conference Rice University November 2023 • Groups, Actions, and Geometris Tufts University August 2023 • 4-manifold Mapping Class Groups Workshop University of Chicago August 2022	
Teaching Experience	<i>Certificate in the Foundations of College Instruction</i> University of Illinois Chicago, Illinois, USA May 2023 <i>Mentor</i> The Directed Reading Program at UIC Mentor Fall 2025 <i>Instructor</i> MATH 088 Intermediate Algebra Workshop Fall 2025 Emerging Scholars Workshop on Calculus I Fall 2024 Summer Enrichment Mathematics Workshop on Intermediate Algebra Summer 2023, Summer 2024, Summer 2026 <i>Teaching Assistant</i> MATH 121 Precalculus Spring 2025 MATH 165 Calculus for Business Summer 2022, Fall 2023, Spring 2024, Spring 2026 MATH 180 Calculus I Fall 2021, 2022 MATH 181 Calculus II Spring 2022 MATH 210 Introduction to Differential Equations Spring 2023	
Special Achievements	• UIC Louise Hay Department of Mathematics Award 2023	
Departmental & University Service	• MGSA Graduate Mentor July 2025 • Graduate Open Day panelist March 2024 • International Student First Friends July 2023	
Language Skills	• Chinese (Native) • English (Fluent) • French (Fluent in Reading)	