

JIA WAN

Madison, Wisconsin, United States
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EDUCATION

- University of Wisconsin-Madison** **09 2024 – now**
PhD student - Mathematics Department - Advisor: Autumn Kent *Madison, Wisconsin*
- University of Wisconsin-Madison** **01 2022 – 05 2024**
VISP Exchange & Master Program - Mathematics Department *Madison, Wisconsin*
- Southern University of Science and Technology** **08 2019 – 06 2023**
Bachelor - Mathematics and Applied Mathematics *Shenzhen, China*

RESEARCH WRITING

- 2. Counting Surface Subgroups in Cusped Hyperbolic 3-Manifolds** **Submitted**
(with Xiaolong Hans Han, and Zhenghao Rao)
- 1. Classification of Simplicial Coxeter Groups in n-dimensional Euclidean, Spherical and Hyperbolic Spaces** **Spring 2023**
Undergraduate Thesis
Instructor: Yannan Qiu, Tullia Dymarz
Southern University of Science and Technology

RESEARCH INTEREST

My research interest focuses on the area of low-dimensional topology and geometric group theory, specifically in surface subgroups in hyperbolic 3-manifolds and mapping class groups theory.

CONFERENCES AND TALKS

- 6. Topological and Geometric Structures in Low Dimensions** **Jan-Mar 2026**
SLMath, Berkeley
- 5. Computational problems about 3-manifolds, associated groups and varieties** **Oct 2025**
Lightning Talk: Counting Surface Subgroups in Cusped Hyperbolic 3-Manifolds *Rutgers University, Newark*
- 4. Midwest Summer School in Geometry, Topology, and Dynamics** **June 2025**
University of Wisconsin-Madison
- 3. The 53rd John H. Barrett Memorial Lectures: Recent Development in Geometric Group Theory** **May 2025**
The University of Tennessee, Knoxville
- 2. Advanced School on Mapping Class Groups, Surface Subgroups, Bundles, and Group Extensions** **May 2025**
ICMAT - Madrid
- 1. BRIDGES 2024** **July 2024**
The University of Utah

TEACHING EXPERIENCE

- Teaching Assistant** **Fall 2025**
Math 211: Survey of Calculus 1 *University of Wisconsin-Madison*
- Teaching Assistant** **Fall 2024**
Math 221: Calculus and Analytic Geometry 1 *University of Wisconsin-Madison*
- Project Asst-Grader/Reader** **Spring 2024**
Math 742: Abstract Algebra II *University of Wisconsin-Madison*
- Project Asst-Grader/Reader** **Fall 2023**
Math 113: Trigonometry *University of Wisconsin-Madison*

SCHOLARSHIPS AND AWARDS

The Contemporary Undergraduate Mathematical Contest in Modeling (CUMCM) <i>National First Prize</i> <i>Title: 基于理想抛物面优化的 FAST 工作面模型</i> (Optimized “FAST” working face model based on the ideal paraboloid)	11 2021 <i>China</i>
The Twelfth/Thirteenth Chinese Mathematics Competitions (CMC) <i>First Prize</i>	11 2020/2021 <i>Guangdong Province</i>
Excellent Student Scholarship <i>Third Prize</i>	10 2020 & 2021 <i>Southern University of Science and Technology</i>
International Music Competition (NMCC) - Adult Class Piano Solo <i>Gold Prize in Preliminary Round</i>	11 2020 <i>Shenzhen</i>

EXTRACURRICULAR

“Colorful Clouds Chasing the Moon” Piano Concert and Album <i>Southern University of Science and Technology</i>	10 2020
Piano Masterclass Instructed by Haochen Zhang <i>Shenzhen</i>	10 2019