



XIAO CHEN

Geometric Topology
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EDUCATION

- Tsinghua University *Ph.D. in Mathematics* Beijing, China 2020-2025
- Zhejiang University of Technology *Bachelor of Science in Mathematics* Hangzhou, China 2016-2020

RESEARCH PAPERS

- Linear Bound for Kakimizu Complex Diameter of Hyperbolic Knots *Joint with Wujie Shen* arXiv 2025.8
- Uniqueness of Maximal Curve Systems on Punctured Projective Planes *Joint with Wujie Shen* arXiv 2025.7
- Systems of Curves on Non-orientable Surfaces arXiv 2024.8

INVITED TALKS

- Geometric Intersection Complexes *Topology Seminar, KAIST 2025.1*
- Maximal Systems of Curves on Surfaces *Topology & Group Theory Seminar, Vanderbilt University 2024.10*
- Maximal Systems of Curves *GIST Seminar, Boston College 2024.9*
- Maximal Systems of Curves Intersecting Pairwise Once on Non-Orientable Surfaces *Tsinghua University
The 735th Doctoral Academic Forum of Tsinghua University 2024.4*
- Maximal Systems of Intersecting curves on Surfaces *N-KOOK Seminar, Osaka University 2023.12*
- Maximal Systems of Intersecting curves on Surfaces *Nara Topology Seminar, Nara Women's University 2023.12*

ACADEMIC VISITS

- KAIST *visiting Harry Hyungryl Baik* Daejeon, South Korea 2025.1.7-10
- Boston College *visiting Ian Biringer* Boston, US 2024.9.6-11.6
- Osaka Metropolitan University *visiting Makoto Sakuma* Osaka, Japan 2023.12.5-20

SERVICES AND SEMINARS

- Linear Algebra TA 2020 Fall
- Advanced Algebra TA 2021 Spring
- Probability and Mathematical Statistics TA 2022 Fall
- The Art and Science of Mathematics TA 2024 Spring
- G2T2 Seminar *Co-organizer* Beijing 2025-Present
- YMSC Topology Seminar *Member* Beijing 2021-Present
- Modern Dynamics *Member* Beijing 2022-2023
- Joint Seminar on Teichmüller Theory and Related Topics *Member* Beijing & Shanghai & Tianjin 2022-2023
- Calculus C1 & C2 TA 2021 Fall & 2022 Spring
- Topology TA & Notes Taker 2022 Fall & 2023 Spring

CONFERENCES

- Knots, Groups, and Manifolds Montreal, Canada 2025
- Geometric Group Theory and Related Topics Beijing, China 2025
- Geometry-Moduli Hangzhou, China 2024
- The 14th MSJ-SI Tokyo, Japan 2023
- 2023 SCMS Geometric Group Theory Conference Shanghai, China 2023
- The 9th International Congress of Chinese Mathematicians Nanjing, China 2022

SKILLS

- Languages *Mandarin, English*
- Programming Languages *C, Java, Python, TeX, Wolfram Language, MATLAB*