



**XIAO CHEN**  
 Geometric Topology  
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## EDUCATION

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- **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

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- **Minimal Filling K-Systems of Curves** *Joint with Hong Chang and Wujie Shen* arXiv 2026.6
- **Intersection complexes of surfaces** "In the Tradition of Thurston" 2026.4
- **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

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- **Linear Bound for Kakimizu Complex Diameter of Hyperbolic Knots** OCAMI 2025.12
- **Linear Bound for Kakimizu Complex Diameter of Hyperbolic Knots** Gakushuin University 2025.12
- **Linear Bound for Kakimizu Complex Diameter of Hyperbolic Knots** SIMIS 2025.12
- **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 735<sup>th</sup> 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

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- **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

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- **Linear Algebra** TA 2020 Fall
- **Advanced Algebra** TA 2021 Spring
- **Probability and Mathematical Statistics** TA
- **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  
2022 Fall

## CONFERENCES

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

## SKILLS

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