

XU Yuan

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EDUCATION

Xi'an Jiaotong University

B.S. in Mathematics with Honors (GPA 3.56/4)

Shaanxi, PRC

Sept. 2020 - Present

EXPERIENCES

Beijing International Center for Mathematics Research

Enhanced Program for Graduate Study

Beijing, PRC

Feb. 2024 - Jun. 2024

- *Related Courses: Homology Theory, Riemann Surfaces, and Characteristic Classes.*

Georgia Institute of Technology

Visiting Honors Student Program

Georgia, USA

Jan. 2023 - May. 2023

- *Relevant Coursework: Algebraic Topology, Algebra II (GPA:4.0/4.0)*

Beijing International Center for Mathematics Research

2023 Summer School on Differential Geometry

Beijing, PRC

Jul. 2023 - Aug. 2023

- Elliptic partial differential equations of second order (Grade: 100/100);
- Complex geometry (Grade: 93/100);
- Riemannian geometry (Grade: 95/100).

ACTIVITIES

Peking University

"3+X" Student Seminar on Low-dimensional Topology

Beijing, PRC

Mar. 2024 - May. 2024

- Finite generation of mapping class groups;
- The Nielsen realization problem;
- Rigidity of mapping class groups action on S^1 .

Xi'an Jiaotong University

Teaching Assistant

Shaanxi, PRC

Sept. 2023 - Feb. 2024

- Graded mathematical analysis homework for 120 mathematics majored students weekly;
- Graded Midterm test and providing feedback for students;
- Provided feedback in office hour;
- Lectured exercises in class.

Xi'an Jiaotong University

Workshop on Modern Number Theory

Shaanxi, PRC

Sept. 2021 - Jan. 2022

- Quadratic Gauss sums;
- Gauss and Jacobi sums with respect to multiplicative characters;

RESEARCH EXPERIENCES

Xi'an Jiaotong University

Undergraduate Project

Shaanxi, PRC
Feb. 2024 - Jun. 2024

- Advisor: ZHANG Qiang
- Topic: Nielsen-Thurston Classification Theorem on Surface Diffeomorphism

Xi'an Jiaotong University

Research Project

Shaanxi, PRC
Sept. 2023 - Feb. 2024

- Advisor: ZHANG Qiang
- Topic: Dehn-Niesen-Baer Theorem

Xi'an Jiaotong University

Research Training

Shaanxi, PRC
Jun. 2023 - Sept. 2023

- Advisor: ZHANG Qiang
- Topic: Generators for Mapping Class Groups on Low Genus Surfaces

Xi'an Jiaotong University

Academic Training

Shaanxi, PRC
Jun. 2022 - Sept. 2022

- Advisor: MA Yue
- Topic: Introduction to manifold and Clifford algebra;

RESEARCH INTEREST AND LANGUAGES

- Reseach interest: Low-dimensional topology, geometric topology, and mapping class groups.
- Languages: Chinese Mandarin (Mother tongue), English (Fluent, TOEFL iBT: 100), and Cantonese;
- Skills: \LaTeX , C#, and Matlab.

SCHOLORSHIP AND AWARDS

- International Exchange Program First-class Scholarship (Top 15%) 2022 - 2023
- Third Prize of Shaanxi Province in China Undergraduate Mathematics Contest 2022
- Mount Everest Program Second Scholarship (Top 30%) 2021 - 2022
- Mount Everest Program Second Scholarship (Top 30%) 2020 - 2021

OTHERS

- Personal Website: www.mathyuan.com