XU Yuan

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EDUCATION

Xi'an Jiaotong University   Shaanxi, PRC
B.S. in Mathematics with Honors   (GPA 3.53/4.3)   Sept. 2020 - Present

EXPERIENCES

Beijing International Center for Mathematics Research   Beijing, PRC
Enhanced Program for Graduate Study   Feb. 2024 - Present

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

Georgia Institute of Technology   Georgia, USA
Visiting Honors Student Program   Jan. 2023 - May. 2023

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

Beijing International Center for Mathematics Research   Beijing, PRC
2023 Summer School on Differential Geometry   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   Beijing, PRC
"3+X" Student Seminar on Low-dimensional Topology   Mar. 2024 - Present

- Finite generation of mapping class groups;

- The Nielsen realization problem;

- Rigidity of mapping class groups action on S^1.

Xi'an Jiaotong University   Shaanxi, PRC
Teaching Assistant   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   Shaanxi, PRC
Workshop on Modern Number Theory   Sept. 2021 - Jan. 2022

- Quadratic Gauss sums;

- Gauss and Jacobi sums with respect to multiplicative characters;

RESEARCH EXPERIENCES

Xi'an Jiaotong University   Shaanxi, PRC
Undergraduate Project   Feb. 2024 - Present

- Advisor: ZHANG Qiang

- Topic: Nielsen-Thurston Classification Theorem on Surfaces

Xi'an Jiaotong University   Shaanxi, PRC
Research Project   Sept. 2023 - Feb. 2024

- Advisor: ZHANG Qiang

- Topic: Dehn-Niesen-Baer Theorem

Xi'an Jiaotong University   Shaanxi, PRC
Research Training   Jun. 2023 - Sept. 2023

- Advisor: ZHANG Qiang

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

Xi'an Jiaotong University   Shaanxi, PRC
Academic Training   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 Scholorship (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