

Zhihao Huang

ShanghaiTech University, Shanghai, China · huangzh2023@shanghaitech.edu.cn · (+86)18695703868

Education

ShanghaiTech University

Bachelor of Science in Mathematics and Applied Mathematics

Shanghai, China

Sep 2023 – Jun 2027

GPA: 3.7/4.0 **Rank:** 2/22

Relevant Coursework: Algebraic Topology, Advanced Complex Analysis, Algebra, Differential Topology, Real Analysis.

Study and Research Interests: Topology and Geometry, Differential Geometry, Algebraic Geometry.

Cornell University

Visiting International Student, Mathematics

Ithaca, New York

Jan 2026 – May 2026

GPA:

Courses: Homological Algebra, Differential Geometry, Matrix Groups, Introduction to Number Theory, Commutative Algebra with Applications in Algebraic Geometry.

Projects

Reading: Commutative Algebra and Galois Theory

Independent Study

Supervisor: Junwu Tu

2025 Fall

- Reading report on a chosen problem: The Jordan-Hölder Theorem.
Materials include Atiyah&Macdonald's *Introduction to Commutative Algebra*
- Reading report on a chosen topic: Grothendieck Topology: Galois Groups and Fundamental Groups.
Materials include Milne's *Fields and Galois Theory* and Szamuely's *Galois Groups and Fundamental Groups*.

Reading: Differential Topology

Independent Study

Supervisor: Yohsuke Imagi

2025 Fall

- Topics include orientation and degree theory.
Materials include Milnor's *Topology from the Differentiable Viewpoint* and Lee's *Introduction to Smooth Manifolds*.
- Summary essay, and blackboard presentation.

Experience

Teaching Assistant: Probability and Statistics I

Undergraduate Teaching Assistant

ShanghaiTech University

2025 Fall

- Held weekly recitation. Graded assignments, quizzes and exams.

Administrative Assistant: The Undergraduate Admission Office

Student Assistant

ShanghaiTech University

Sep 2024 - Present

- Participated in the June 2025 recruitment activity on ShanghaiTech University, and three recruitment consultation sessions in Fujian Province.
- Assist data screening and processing of the admission system. Answering phone calls and resolving problems.

Awards

Merit Student (Top 2%), ShanghaiTech University , 2023-2024

Merit Student (Top 2%), ShanghaiTech University , 2024-2025

Additional Information

Languages: Chinese (Native), English

Interests: Hiking, swimming, phone-photography