

# Zhihao Huang

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## 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