

Hongxiang Zhao

Nov 6, 2022

Citizenship: China

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Webpage: [hongxiang-zhao.github.io](https://github.com/hongxiang-zhao)

Education

Bachelor in Science

2019.9-present

Southern University of Science and Technology (SUSTech), China

Major in Mathematics. Completed the Undergraduate Mathematics Honors Program

Undergraduate Advisor: Yifei Zhu

Concurrent Enrollment

2022.1-2022.5

University of California-Berkeley (UCB), USA

Research Interests

Algebraic number theory, algebraic topology, and related fields. I am now learning connections between local class field theory and stable homotopy theory via Lubin-Tate formal group laws.

Academic Activities

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|-------------|---|
| Spring 2022 | Attended Berkeley Mathematics Directed Reading Program organized by the Berkeley Math Department. Read Chapter I, II, III, IV, VI of Silverman's <i>The Arithmetic of Elliptic Curves</i> under the direction of Mark Macerato, a PhD student of Prof. David Nadler at the UCB. |
| Summer 2022 | Attended a summer project with students at Berkeley under the supervision of Prof. Nadler. Read materials about loop groups, topological quantum field theory, Yang-Mills theory and Chern-Simons theory. |

Graduate Courses

Topics in Algebra and Number Theory	A+	Taken at SUSTech
Algebraic Topology (Part I)	A+	Taken at SUSTech
Algebraic Topology (Part II)	A+	Taken at UCB
Differential Manifolds	A+	Taken at UCB
Commutative Algebra	A	Taken at UCB

GPA

Major GPA at SUSTech	3.95/4.00
Major Ranking at SUSTech	1/35
GPA at UCB	4.00/4.00
Overall Cumulative GPA at SUSTech	3.93/4.00

Awards

The Second Prize of the Chinese Mathematics Competition, 2021
The First Class of the Merit Student Scholarship at SUSTech, 2020
The Second Class of the Merit Student Scholarship at SUSTech, 2021
The Second Class of the Merit Student Scholarship at SUSTech, 2022

Skills

Languages	Chinese (native) English (TOEFL 104: Reading 29, Listening 27, Speaking 23, Writing 25, GRE 327+3.5: Verbal 157, Quantitative 170, Writing 3.5)
Programming Languages	C++, JAVA, L ^A T _E X