

Hongxiang Zhao

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Citizenship: China

Email: 11911520@mail.sustech.edu.cn

Education

BS

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 Lubin-Tate formal group laws and stable homotopy theory.

Personal Webpage

`hongxiang-zhao.github.io`

Academic Activities

Spring 2022

Attended Berkeley Mathematics Directed Reading Program organized by the Berkeley Math Department. Read Chapter I, II, III, IV, VI of Silverman's The Arithmetic of Elliptic Curves under the direction of Mark Macerato, a PhD student of Prof. David Nadler at the University of California-Berkeley (UCB).

Summer 2022

Attended a summer project with students in Berkeley under the supervision of Prof. David 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 in SUSTech
Algebraic Topology(Part I)	A+	Taken in SUSTech
Algebraic Topology(Part II)	A+	Taken in UCB
Commutative Algebra	A	Taken in UCB
Differential Manifolds	A	Taken in UCB

GPA

Major GPA in SUSTech	3.95/4.00
GPA in UCB	4.00/4.00
Overall Cumulative GPA in SUSTech	3.93/4.00

Awards

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

Skills

Languages	Chinese (mother tongue) English (TOEFL 104: R 29, L 27, S 23, W 25, GRE 327+3.5: V 157, Q 170, W 3.5)
Programming Languages	L ^A T _E X, C++, JAVA