

Hongxiang Zhao

Sep 28, 2022

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 also interested in learning Langlands Program, geometric Langlands Programm, mathematical physics, arithmetic topology, etc.

-Academic Activities

Fall 2020	Organized and attended a student category seminar. I gave two talks on basic definitions and examples in category theory and Yoneda Lemma
Spring 2022	Attended a Directed Reading Program organized by Berkeley math department. Read Joseph H. Silverman's <i>The Arithmetic of Elliptic Curves</i> under the direction of Mark Macerato, a graduate in UCB.
Summer 2022	Attended a summer project with students in Berkeley under the supervising of David Nadler. Read materials about loop groups, topological quantum field theory, Yang-Mills Theory and Chern-Simons Theory.

-GPA

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

-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

-Awards

The Second Prize for 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

-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)
Software	L ^A T _E X, C++, JAVA