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 analogies between number fields and function fields, between knots and primes, and physical significance of Yang-Mills Theory, etc.

Personal Webpage

`hongxiang-zhao.github.io`

Academic Activities

Spring 2022   Attended `BerkeleyMathematicsDirectedReadingProgram` 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. DavidNadler` 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

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

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	LaTeX, C++, Java