

# Hongxiang Zhao

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Citizenship: China

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## Education

<b>Master in Mathematics</b>	2023.9-present
University of Copenhagen, Denmark	
<b>Bachelor in Science</b>	2019.9-2023.6
Southern University of Science and Technology (SUSTech), China	
Major in Mathematics. Completed the Undergraduate Mathematics Honors Program	
Undergraduate Advisor: Yifei Zhu	
<b>Concurrent Enrollment</b>	2022.1-2022.5
University of California-Berkeley (UCB), USA	

## Research Interests

Homotopy theory with its relationship to number theory, especially chromatic homotopy theory and algebraic K-theory.

## 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 <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.
Fall 2022	Attended Graduate Topology Seminar, SUSTech on modular forms. Gave a talk on formal group laws and formal groups.
Fall 2022	Attended Undergraduate Topology Seminar, SUSTech on modular forms. Gave two talks on elliptic curve and modular curves.
Spring 2023	Attended Graduate Topology Seminar, SUSTech. Gave a talk on my undergraduate thesis.
Summer 2023	Attended IWoAT 2023, both conference and summer school.

## GPA

GPA at Copenhagen	12/12
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 Danish governmental scholarship, 2023  
The Second Class of the Merit Student Scholarship at SUSTech, 2022  
The Second Class of the Merit Student Scholarship at SUSTech, 2021  
The Second Prize of the Chinese Mathematics Competition, 2021  
The First Class of the Merit Student Scholarship at SUSTech, 2020

## 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 <sup>A</sup> T <sub>E</sub> X