

# Yuhe Qin

📍 Shenzhen, Guangdong, China    ✉ 12211057@mail.sustech.edu.cn    🌐 arrownf98lioc.github.io

## Education

### Southern University of Science and Technology

Sept 2022 – July 2026(*expected*)

*Candidate for a Bachelor of Science degree in Mathematics, Fields Honors Class*

- **GPA:** 3.68/4.0(88.91/100)
- **Selected Courses:**

Mathematical Analysis(H)I,II,III	83(Averaged)	Advanced Linear Algebra I,II(H)	86(Averaged)
Complex Analysis(H)	94	Ordinary Differential Equations A(H)	90
Topology	91	Optimization	85
Introduction to Python Programming	98	Probability and Statistics	97

## Research Experience

### Research on Computational Topology

*Shenzhen, China*

*Research Intern, supervised by Prof. Yifei Zhu*

*March 2024 – Now*

- Focusing on the gestalt principle in audio perception
- Aiming to provide a better computational method for audio recognition

## Skills

**Programming:** Python

**Software:** L<sup>A</sup>T<sub>E</sub>X

## Seminar Experience

### Linear Algebra in Extremal Combinatorics

*Spring 2024*

- Present talks on Borsuk's Conjecture and Ramsey and the independence number of the orthogonality graph.

### Fourier Analysis Student Seminar

*Fall 2023*

- Present talks on the elementary theory of the Fourier transform on  $\mathbb{R}$  and its applications, including the Poisson summation formula, the Heisenberg uncertainty principle, and some PDEs.

### Introduction to Set Theory

*Spring 2023*


- Present a talk on the statement of the axiom of choice and its equivalent forms.

## Conference Experience

### SPIRES 2024

*August 2024*

*Organized by the Centre for Topological Data Analysis at the Mathematical Institute, University of Oxford*

- Created a [poster](#)  to showcase the research results of the project group.

### The First Seminar on Artificial Intelligence and Mathematics

*July 2024*

*Organized by the Mathematical Science Research Center, Chongqing University of Technology*

- Engaged in discussions with graduate students from other universities who are interested in applied mathematics.