

Ziyi Cai | Curriculum Vitae

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Information

Description: I am an undergraduate student in ACM Honor class, Zhiyuan college, Shanghai Jiao Tong University. I am broadly interested in theoretical computer science, especially in learning theory and computational complexity.

Education

Shanghai Jiao Tong University

B.E. in Engineering in Computer Science

Shanghai

Sept 2019 –present

○ Average Score: 88.1 / 100

○ GPA: 3.81 / 4.0

○ Ranking: 11 / 30

Experience

Research.....

University of Southern California

Research Intern advised by Prof. Jiapeng Zhang

Feb 2022 –present

Research Topic: spectral methods of community detection

Shanghai Jiao Tong University

Undergraduate Researcher advised by Prof. Yijia Chen

BASICS Lab

Aug 2021 –present

Research Topic: size of resolution proof, descriptive complexity of parity games

Vocational.....

Great Ideas in Computer Science

Shanghai Jiao Tong University

Teaching Assistant

Fall 2022

I prepared and gave several lectures on introduction of computational complexity for juniors at ACM Honor Class.

Probability and Computing

Shanghai Jiao Tong University

Teaching Assistant

Summer 2022

Mathematical Logic

Shanghai Jiao Tong University

Teaching Assistant

Fall 2021

Programming

Shanghai Jiao Tong University

Teaching Assistant

Fall 2020

I led a TA team, and I was deeply involved in the course design.

I'm one of seven initiators and once a maintainer of an online-judge system for not only ACM Honor Class but also other courses in the whole university.

Honors and Awards

Longhu Fellowship

10 winners at Zhiyuan College each year

2022

Huawei Fellowship

14 winners at Zhiyuan College each year

2021

Zhiyuan Honorary Scholarship

Top 5% in SJTU each year

2019, 2020, 2021, 2022

Silver Medal

The 35th China National Olympiad in Informatics (NOI)

2018

Skills

- Programming: C++, Python, Latex, Git
- Language: Mandarin Chinese (native), Cantonese (native), English (TOEFL: R30 L24 S20 W26)