

# JIAYUAN YE

homepage: <https://yuan74.github.io/yuan74/index.html>

Tel: (+86) · 153 · 9559 · 7298 ◇ Email: yuan74@mail.ustc.edu.cn

## BASIC INFO

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**University of Science and Technology of China**

*graduating in June 2020*

B.S. in Computational Mathematics

School of Mathematical Sciences

## GRADES AND STANDARDIZED TESTS

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**Overall GPA:** 3.73

**Current Ranking:** 7/55

**TOEFL iBT:** 111(total) 30(reading) 29(listening) 25(speaking) 27(writing)

**GRE:** 154(Verbal)+167(Math)+3.5(AW)

## AWARDS AND ACHIEVEMENTS

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In Sep 2016, I won Bronze Prize for outstanding Freshmen Scholarship.

In September 2017, I was awarded National scholarship(**TOP 1%**).

In February 2018, I took part in ICM held by COMAP and won Meritous Winner prize(**TOP 10%**).

In Sep 2018, I won the Yuanqin Harvest moon Sci-Tech scholarship(**3%**).

## EDUCATIONAL EXPERIENCES

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**Engineering department**

August 2016 - July 2017

*undergraduate*

*USTC*

- Entered USTC as an Engineering student and received National Scholarship for excellent academic performance

**School of Mathematics**

July 2017 - June 2018

*undergraduate*

*USTC*

- In June 2017, I passed the examination for changing my major and got transferred to the School of Mathematics.

**Summer Institute at Oxford**

July 2018 - August 2018

*student*

*Oriel College, Oxford*

- I studied 4 courses in this summer Institute program:  
*AI with focus on search-Part 1, AI with focus on search-Part 2(93),  
quantum computing(98), numerical analysis&image processing and ontologies(96).*

**Division of Information and Computing Sciences**

Aug 2018 - Now

*undergraduate*

*USTC*

- In June 2018, I chose Information and Computing Sciences as my specialization.

## TEACHING EXPERIENCES

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### Multivariable Calculus

Teaching Assistant

Feb 2019 - July 2019

USTC

- In 2019 Spring, I served as one of the three TAs for Assoc. Prof. Wang Jianwei's course "Multivariable Calculus", and I maintained the [course website](#).

## RESEARCH EXPERIENCES

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### RoboGame Competition

undergraduate

August 2016 - July 2017

USTC

From June 2017 to October 2017, my team took part in the [RoboGame competition](#) held by the engineering department of our school and the robot club. We constructed a robot doing traditional Chinese paper-cutting.

### The Interdisciplinary Contest in Modeling

undergraduate

July 2017 - June 2018

USTC

- In February 2018, my team [took part in the the Interdisciplinary Contest in Modeling\(ICM\)](#) held by COMAP. We applied neural network to problem E and built a model evaluating the effect of various factors to a region's overall fragility. And we got Meritorious Winner prize.

### Undergraduate Research Program

AONT, perfect secrecy, finite field

Aug 2018 - Now

USTC

- [Undergraduate Research Program](#) Starting from Dec. 31. 2018, I started working on a undergraduate research program under the guidance of Prof. XiandeZhang. The project mainly covers the relation between [AONT](#), [orthogonal arrays](#) and [exposure-resilient functions](#).

### Cryptanalysis Taskforce research team

research intern

July 2019 - Oct 2019

Nanyang Technological University

- [Project:Preimage attacks on Keccak](#) Under the supervision of Assist. Prof. Guo Jian, I worked on a project studying the preimage attacks on KECCAK(A family of hash functions that won the SHA-3 competition in 2012).

## TECHNICAL STRENGTHS

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### Computer Languages

C/C++, python, matlab

### Mathematical software

Mathematica, Sage

### Tools

latex

## MISCELLANEOUS

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### Languages

Chinese, English

### Hobbies

calligraphy, GuZheng

### Sports

swimming, badminton