

JIAYUAN YE

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

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EDUCATION

University of Science and Technology of China

graduating in June 2020

B.S. in Computational Mathematics

School of Mathematical Sciences **Overall GPA:** 3.74

Current Ranking: 7/55 **TOEFL iBT:** 104(total) 30(reading) 27(listening) 23(speaking) 24(writing)

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

Core Courses:

AWARDS AND ACHIEVEMENTS

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

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

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

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

A SHORT BIOGRAPHY

Engineering department

August 2016 - July 2017

undergraduate

USTC

- [Robogame Competition](#) 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.

School of Mathematics

July 2017 - June 2018

undergraduate

USTC

- [Change Major](#) In June 2017, I passed the examination for changing my major and got transferred to the School of Mathematics.
- [Paticipating in ICM](#) In Feburary 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 Meritous Winnner prize.
- [Computer Graphics Class Project](#) In May 2018, my team did a 3-week project for our computer graphics class. We constructed a tower defense game using Unity 3D and we focused on making buildings with intresting geometry.

Summer Institute at Oxford

July 2018 - August 2018

student

Oriel College, Oxford

- Studied 4 course: 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

- **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.
- **Project:Texture Synthesis** In the 'introduction to algorithms' class, I worked on a course project under the guidance of Assoc.Prof. JuyongZhang. The project mainly covers texture synthesis applied mini-cut of graph.

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

Computer Languages	C/C++, python, matlab
Mathematical software	Mathematica, Sage
Tools	latex

MISCELLANEOUS

Languages	Chinese, English
Hobbies	calligraphy, GuZheng
Sports	swimming, badminton