

# Zifan Hua

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GitHub: <https://github.com/Alex222222222222>

## Education

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University of Nottingham	BSc Hons Maths w/App Maths	2023-Present
University of Nottingham Ningbo China	BSc Hons Maths w/App Maths	2021-2023
• <b>Core Courses:</b> Statistics, Python, Applied Mathematics, Probability, Calculus		
Hangzhou Foreign Languages School	High School	2018-2021

## Honours & Awards

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- 2023, IMC(International Mathematics Competition), Gold Medal
  - 2023, UNNC Mathematics Olympiad, Gold Medal
  - 2022, IMC(International Mathematics Competition), Silver Medal
  - 2022, UNNC Mathematics Olympiad, Gold Medal

## Experience

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<b>Weekly Undergraduate Seminar in Mathematics</b>	<b>2022-2023</b>
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Participant and Speaker

- **Supervisor:** Dr. Hamid Reza Daneshpajouh
- **Project - Communicate Through Noisy Channel:** Investigate the definition and methods of computation of Shannon Capacity and its application in communication through noisy channel. Discuss some latest result and open problems in this area.

<b>Personal Project: MacOS Clipboard Manager</b>	<b>2023-Present</b>
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Main Developer

<https://github.com/Alex222222222222/CopyClip>

- A app that monitor clipboard and save history to database. And allow users to search, filter, star and delete history with regular expression or fuzzy search. Also, with preferences to let users customize the app and ways to export and import the history.
- Backend: Rust+Sqlite, Frontend: Yew, Framework: Tauri

<b>Personal Project: Rust Library for 2FA</b>	<b>2023-Present</b>
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Main Developer

<https://github.com/Alex222222222222/r2fa>

- A Rust library for generating 2FA(Two Factor Authentication) codes that support TOTP and HOTP.
- With detailed documentation and examples.

<b>UNNC Cube Club</b>	<b>2022-2023</b>
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Society Leader

- Organize competitions and tutorial sessions that have over 100 participants in total.
- Write and design activity and recruitment posts that was read by over 500 people in total.

## Skills

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- **Technical Skills:** Rust, Golang, Python, Matlab, R, Database
  - **Tools:** Linux, Git, Docker,  $\text{\LaTeX}$
  - **Languages:** English, Chinese