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## Education

YALE UNIVERSITY

NEW HAVEN, CT

Sep. 2021 – May 2025

**Major:** UNDECIDED, **GPA:** 3.76/4.00

- **Relevant Coursework:** Probability Theory; Intensive Introductory Physics; Intro to CS; Intro to EE
- **Planned for Spring 2022:** Data Structures & Programming Techniques; Real Analysis; Intro to Abstract Algebra

UNIVERSITY OF MINNESOTA

MINNEAPOLIS, MN

Sep. 2016 – May 2021

**GPA:** 3.96/4.00

- **Relevant Coursework:** Intro to Waves, Optics, and Special Relativity; Single- & Multi-Variable Calculus; Linear Algebra; Error-Correcting Codes, Finite Fields, and Algebraic Curves; Cryptology; Dynamical Systems & Chaos

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## Experience

MNHSML, YALE MATH COMPETITIONS / MATH COMPETITOR, PROBLEM WRITER

Apr. 2016 – Present

- Organized virtual practices for 100+ math team members on Zoom. Created handouts, mock competition using  $\text{\LaTeX}$ .
- Participated in competitions both individually (AIME, USAJMO, Putnam) and with a team (ARML, HMMT, PUMaC).
- Wrote problems for MMATHS 2021 for  $\sim 500$  students.

UNIVERSITY OF MINNESOTA / UNDERGRADUATE RESEARCHER

MINNEAPOLIS, MN

Jan. 2020 – Present

- Investigated ranking & rating systems and developed a metric to quantify gerrymandering in group of three undergraduates, led by post-doctorate Alexis Johnson.
- Used Python (pandas, matplotlib) to process raw government data and to develop & calculate our metric.
- Presented at the MAA North Central Conference in March 2021, planned publication in 2022.

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## Projects

COVID DATA VISUALIZATION

Oct. 2020 – May 2021

- Used MN government data and Python (matplotlib) to create graphs of county COVID cases and infection rates.
- Shared findings with school administration,  $\sim 200$  followers on Instagram.

CMIMC PROGRAMMING COMPETITION

Jan. 2021

- Won 1st place in AI round, 8th place overall in the 2021 Carnegie Mellon Informatics and Mathematics Programming Competition with a team of three.
- Developed AI using Python in one week to play three adversarial AI games with other AIs developed by other teams.

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## Skills & Interests

TECHNICAL

C, Python (matplotlib, seaborn, numpy, pandas), JavaScript,  $\text{\LaTeX}$ , Racket, R, Unix

LANGUAGES

Bilingual English and Mandarin Chinese, Limited French

INTERESTS

Music Composition, Cello, Piano, Cooking, Origami, Creative Writing