

Jalen Chrysos

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Education

University of Chicago

Fall 2022-Spring 2026

BA/MS in mathematics.

Reed College: Concurrent enrollment during high school.

2020-2021

Portland State University: Dual enrollment during high school.

2019-2021

Programming experience.....

Python, C++, \LaTeX , Asymptote.

Selected work experience

Research internships.....

University of Chicago: Research Experience for Undergraduates

Summer 2025

Wrote an [expository paper](#) on Reverse Mathematics, with a focus on the relationships between Ramsey's Theorem, König's Lemma, and principles in real analysis. Extensive use and discussion of the method of forcing.

Kepler Computing: Algorithm Design Internship

Summer 2023

Wrote algorithms in python for optimal synthesis of logic functions from majority gates.

Saltire Software: Software Internship

Summer 2019

Worked on a team to adapt Hermann Helmholtz's *On the Sensations of Tone* into an [interactive e-book](#). Wrote audio-physics applets in Java and typeset diagrams in \LaTeX .

Kepler Computing: Data Analyst and Electrical Testing Engineer

June 2021 - September 2022

Wrote testing automation code in python and performed data analysis using matplotlib for the design of "Beyond CMOS" computing hardware. Employed full-time.

Teaching and Mentorship.....

University of Chicago: Teaching Assistant

2023

TA for 160s IBL (Inquiry Based Learning) sequence, an introduction to proofs in real analysis. Graded problem sets, held weekly office hours.

Private Tutoring: Math Contest Tutor

2023-present

Taught kids olympiad-level material in a creative and fun way.

Oregon ARML: Team Leader

2020-2021

Team leader representing Oregon at the ARML (American Regional Math League) competition. Organized practices and logistics for competing, mentored younger kids on the team.

Other.....

Doc Films: Projectionist

2023-present

Worked weekly shifts as an apprentice projectionist. Projected and prepped 35mm and 16mm film, as well as digital.

Selected Fellowships and Achievements

- **Metcalf Grant recipient:** For work at the UChicago Math REU (Summer 2025)
- **Harvard MIT Math Tournament:** Sixth place team (February 2020)
- **USA Junior Math Olympiad participant:** Rank ~ 70 nationally (Spring 2018)
- **North American Linguistics Olympiad:** Semifinalist and Best Solution Award (Spring 2021)