

# ZACH GILLIS

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## EDUCATION

### UNIVERSITY OF CHICAGO – Chicago, IL

Expected Graduation June 2025

- Bachelor of Arts – Physics
- Bachelor of Science – Mathematics

### WALTER PAYTON COLLEGE PREPARATORY HIGH SCHOOL – Chicago, IL

Graduated June 2021

- GPA: 5.4/4.0 weighted; 4.0/4.0 unweighted

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## WORK EXPERIENCE

### NATIONAL RADIO ASTRONOMY OBSERVATORY – Charlottesville, VA

June 2022 – August 2022

#### Summer Research Assistant

- Selected through the NSF's competitive REU Program, this internship focused on radio astronomy, astrophysics, and programming for data science applications
- Attended seminars on radio interferometry, new findings in astrophysics and astrochemistry, and data visualization
- Completed project examining baseline-dependent averaging, in which shorter baselines are averaged over longer amounts of time, to reduce the computational requirements of the Next Generation Very Large Array

### NORTHWESTERN UNIVERSITY – LURIE CANCER CENTER – Chicago, IL

June 2021 – August 2021

#### Summer Research Intern (ResearchHStart)

- Selected to highly competitive research internship program, gaining experience in cancer immunology, bioengineering, experimental cancer therapeutics, and cancer disparities
- Completed project on changes in gene expression as a result of exercise and the pathways perturbed by those changes
- Presented project at research symposium and awarded best poster among ResearchHStart participants

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## EXTRACURRICULAR ACTIVITIES

### UNIVERSITY OF CHICAGO – Chicago, IL

- *Dougan-Niklason House Council – Wellness Czar (2021–Present)*: Works with UChicago Student Wellness to promote wellbeing initiatives in campus housing and provide wellness resources to housemates

### WALTER PAYTON COLLEGE PREPARATORY HIGH SCHOOL – Chicago, IL

- *Math Team Contestant (2017-2021)*: Top member of one of the leading high school math teams in Illinois, competing in city, state, and national competitions; qualified for AIME and received meritorious award for HiMCM
- *AI Lab Co-founder/Co-leader (2019-2021)*: Directed academic club focused on AI research, projects, and applications

### ARGONNE NATIONAL LABORATORY – Lemont, IL

- *Autonomous Vehicle Competition (2019-2020)*: Leader of team building and programming an autonomous vehicle to compete in the Argonne National Laboratory Autonomous Vehicle Contest

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## AWARDS

- *Illinois Math League (2021)*: 2<sup>nd</sup> place individual
- *American Invitational Mathematics Exam (2019-2020)*: Qualifier
- *QED Chicago Mathematics Symposium (2019)*: Highly distinguished award
- *High School Mathematical Contest in Modeling (2019)*: Meritorious award; represented U.S. in the international competition
- *National Merit Scholarship Program (2021)*: Designee and finalist; received national merit scholarship

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## COMMUNITY SERVICE

- *Ogden International School (2019-2020)*: Tutored underserved students weekly in math and English instruction and homework
- *Chicago Junior Math League (2018-2020)*: Worked with middle school teachers to organize junior mathematics competition