ZACH GILLIS

5500 S University Avenue, Room 1039, Chicago, IL 60637

Mobile Phone: 847-778-4709　　|　　**Email:** zachgillis@uchicago.edu

---

EDUCATION

UNIVERSITY OF CHICAGO – Chicago, IL　　　　　　　　　　　　　　　　Expected Graduation June 2025
- Bachelor of Arts – Physics or Biological Sciences
- 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

WORK EXPERIENCE

NATIONAL RADIO ASTRONOMY OBSERVATORY – Charlottesville, VA　　　　　　　June 2022 – August 2022
Summer Research Intern
- Selected to highly competitive research internship through the NSF's REU Program, 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 (ResearcHStart)
- Selected to highly competitive research internship program, providing 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 ResearcHStart participants

---

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

---

AWARDS

- *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 Mathematical Modeling Challenge
- *National Merit Scholarship Program (2021)*: Designee and finalist; received national merit scholarship

---

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