

Noah Geller

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EDUCATION

The University of Chicago

MS in Data Science

Chicago, IL

Expected: 2024-2025

The University of Chicago

BA in Mathematics, with honors

Chicago, IL

2020-2024

GPA: 3.78

Relevant Coursework: Graduate Abstract Algebra, Honors Analysis, Optimization, Dynamical Systems, Probability.

SKILLS

Technical Skills: Proficient in Python (NumPy, SciPy, emcee, matplotlib) and LaTeX.

Certifications: Python for Research Workshop at the University of Chicago Department of Physics.

Languages: English (native), Chinese (conversational).

Grants and Awards: University of Chicago Advanced Scholars Program (2204-2025), Dean's List (2022-2023), Quad Undergraduate Research Scholars Program (Summer 2022), 2nd Place at the National APPE Intercollegiate Ethics Bowl (2022).

EXPERIENCE

University of Chicago Mathematics REU (research experience for undergraduates)

Chicago, IL

Apprentice Program Mentor

June 2024 – August 2024

- Mentored three undergraduate students at the University of Chicago in advanced mathematics and advised them in writing expository research papers.

University of Chicago Mathematics REU (research experience for undergraduates)

Chicago, IL

Full Program Participant

June 2023 – August 2023

- Worked with a graduate student mentor on writing an expository research paper at the intersection of algebraic topology and algebraic geometry. Gave a public presentation on the theory of modules from the perspective of category theory.
- Paper: Andre-Quillen (Co)Homology and the Cotangent Complex

University of Chicago, Department of Mathematics

Chicago, IL

Directed Reading Program Participant

January 2023 – June 2023

- Worked with a graduate student mentor on an independent study of minimal surfaces and complex differential geometry. Gave two public presentations on the relationship between minimal surfaces and complex analysis.

University of Chicago, Department of Mathematics

Chicago, IL

Super Reader (Teaching Assistant)

September 2022 – December 2022

- Held a weekly office hour and graded all assignments for one section of an Honors Calculus course at the University of Chicago.

University of Chicago, Department of Astronomy and Astrophysics

Chicago, IL

Undergraduate Researcher

May 2022 – December 2022

- Worked with a professor on a research project investigating the kinematic properties of a tidally disrupting dwarf galaxy orbiting the Milky Way. This research was funded by a grant from the Quad Undergraduate Research Scholars Program.
- Independently conducted scientific data analysis in Python and used machine learning techniques to classify member stars of the dwarf galaxy Antlia II. Presented my findings to the international Southern Stellar Stream Spectroscopic Survey (S5) collaboration and contributed my results to a successful grant proposal for follow up telescope time. See [research poster](#).

University of Chicago Mathematics REU (research experience for undergraduates)

Chicago, IL

Apprentice Program Participant

June 2021 – August 2021

- Worked with a graduate student mentor to write an expository research paper on the asymptotic behavior of smooth dynamical systems in the plane.
- Paper: [Dynamical Systems in the Plane and the Poincare-Bendixson Theorem](#) (cited by 1)