

Michael Lee

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Education

University of Chicago

BA with Honors in Mathematics, GPA: 3.95/4.00

Chicago, IL, USA

Sept 2022 – present

- Minor in Computer Science
- Inducted as junior to Phi Beta Kappa
- Dean's List 2022-2023, 2023-2024, Robert Maynard Hutchins Scholar

Reading and Research

UChicago Mathematics REU

Apprentice program (1 year), Full program (2 years)

Chicago, IL, USA

Summers 2023-2025

Engaged in weekly discussions with mentor and fellow mentees and attended faculty lectures. Wrote an expository paper and delivered a participant talk.

- 2025 Notes: The Regularity and Rigidity of the Burgers' Equation (Mentor: David Bowman)
- 2024 Notes: The De Giorgi method with applications to fluid dynamics
 - Partial Regularity Theory of the Navier-Stokes equations. (Mentor: Jincheng Yang)
- 2023 Notes: Leray-Hopf weak solutions to the Navier-Stokes equations (Mentor: DeVon Ingram)

UChicago Department of the Geophysical Sciences

Research Assistant: Machine Learning for Extreme Weather Event Estimation

Chicago, IL, USA

Feb 2025 – Sept 2025

Worked with Alexander Wikner in Climate Extremes Theory and Data group on windowing and boundary conditions to improve biases for PanguWeather model in the polar region.

University of Washington Data Science in Oceanography

Summer Program on Oceanographic Data Analysis

Seattle, WA, USA

Aug 2024

Analyzed spectral density of data from Global Drifter Program, ERA5, and MIMOC to find correlations between wind, mixed layer depth and strength of inertial oscillations.

Directed Reading Program

Independent study with graduate student

Chicago, IL, USA

Fall 2023 - Spring 2024

Read and gave presentations on the Prime Number Theorem via Complex Analysis, The Geometry of Elliptic Curves, Introduction to Topological Manifolds under the guidance of Alicia Lima.

Teaching Experience

Super Reader - Teaching Assistant, Reader - Grader

Fall 2023 - Summer 2025

UChicago Department of Mathematics

- TA for single-variable analysis courses (MATH 16110, 16120, 16130): Held office hours and assisted with instructor-led discussions in class.
- Graded homeworks for multivariable analysis (MATH 20400, 20500) and linear algebra (MATH 19600).

Skills

Programming: Python, C, Git

Languages: English (native), Mandarin (fluent), German (intermediate)

Activities

- Violist in UChicago Symphony Orchestra since 2022.