

# Michael Lee

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## Education

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### 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 Hutchkins Scholar

## Reading and Research

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### 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

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### Super Reader - Teaching Assistant, Reader - Grader

*UChicago Department of Mathematics*

*Fall 2023 - Summer 2025*

- 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

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**Programming:** Python, C, Git

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

## Activities

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- Violist in UChicago Symphony Orchestra since 2022, Principal Violist since 2025