

Anne Liu
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Education

New York University - PhD in Applied Mathematics, September 2023-Present

- Dissertation Advisor: Michael O’Neil
- Area of research: fast integral equation methods for wave scattering problems
- GPA: 3.95
- Supported by the MacCracken Fellowship, September 2023-May 2028
- Charles Newman Fellowship, May 2026
- President of Women and Gender Minorities in Mathematics, September 2024-Present

University of Washington, Seattle - BS in Mathematics, September 2019-June 2023

- Research advisor: Thomas Trogdon
- Major: Applied Mathematics
- GPA: 3.92 (overall), 3.97 (applied mathematics)
- Supported by Purple and Gold Scholarship, September 2019-June 2023
- Dean’s List, September 2019-June 2023
- Boeing Award for Outstanding Performance, June 2022

Academic Positions

- Teaching Assistant for Math Finance Summer Bootcamp, NYU Math Dept., July 2026
- Teaching Assistant for Calculus III, NYU Math Dept., January 2026-May 2026
- Teaching Assistant for Honors Ordinary Differential Equations, NYU Math Dept., September 2025-December 2026
- Tutor for Calculus I-III, University of Washington Math Study Center, September 2021-Spring 2023

Publications

- Liu, A. & Trogdon, T. (2023). An artificially-damped Fourier method for dispersive evolution equations. *Applied Numerical Mathematics, Volume 192* (2023), pp. 19-40.

Papers in Progress

- “A time-domain integral equation method for frequency-dependent attenuated wave propagation,” coauthor: Michael O’Neil, expected submission to journals: 2026

Fellowships and Awards

- Charles Newmann Fellowship, NYU Courant Math Dept., 2026
- NSF Graduate Research Fellowship Program (GRFP) Honorable Mention, 2026
- MacCracken Fellowship, NYU GSAS, 2023-2028
- [Husky 100](#), University of Washington, 2023
- Delivered commencement speech for University of Washington Math Dept., 2023
- NSF grant for ‘New Connections in Math Research Symposium,’ Duke University, 2022
- Boeing Award for Outstanding Performance, University of Washington Math Dept., 2022

Selected Conference and Invited Presentations

- “An artificially-damped Fourier method for dispersive evolution equations,” New Connections in Math Research Symposium, Duke University, September 2022.
- “An artificially-damped Fourier method for dispersive evolution equations,” Undergraduate Research Symposium, University of Washington, June 2022.
- “An Integral Equation Solver for Time-Domain Dispersive Waves,” SIAM Conference on Computational Science and Engineering (CSE), Pittsburgh, February 2027.

Outreach

- President of Women and Gender Minorities in Math, September 2024-Present
- Volunteer math tutor at Petey Greene Program, January 2025-May 2025
- Volunteer at GallopNYC, June 2026-Present