Nan Li

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Education

Ph.D. in Mathematics	University of Minnesota	Advisor: Arnd Scheel	2022 - Present
M.S. in Mathematics	University of Minnesota		2022 - 2024
B.S. in Mathematics	University of California Los Angeles		2020 - 2022

Experience

Teaching Assistant	University of Minnesota	2022 - Present
Learning Resources Center Tutor	Berkeley City College	2018 - 2020

Publications

4. **N. Li**, A. Scheel — 2025
Existence and stability of anchored spiral waves in phase oscillators
in preparation.

3. A. Cortez, **N. Li**, N. Mihm, A. Xu, X. Yu, A. Scheel — 2025
Instability of anchored spirals in geometric flows
Submitted

2. **N. Li**, A. Scheel — 2024
Anchored spirals in the driven curvature flow approximation
London Math. Soc. Lecture Note Ser. (to appear)

1. M. Hill, J. Meng, **N. Li** — 2024
Counting compatible indexing systems for C_{p^n}
Orbita Mathematicae Vol.1, No.1, 2024. (undergraduate research)

Presentations

Posters:

1. *Anchored spirals in sharp-interface and phase oscillator models*

   SIAM Conference on Applications of Dynamical Systems | Denver, CO — May 2025

   Joint Alabama-Florida Conference on Differential Equations, Dynamical Systems and Applications | Birmingham, AL — May 2025

Teaching and Mentorship

- Teaching Assistant at University of Minnesota

MATH 2374: Multivariable Calculus	S25, F24
MATH 2373: Linear Algebra and Differential Equations	S24, F23
MATH 1031: College Algebra & Probability	S23
MATH 1271: Calculus I	F22

- Graduate Mentor for UMN Directed Reading Program — Spring 2025
  Project: Physics-informed machine learning

- Graduate Mentor for UMN Complex Systems REU — Summer 2024
  Project: Transverse instability of anchored spirals.