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

Publications and Preprints

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.

1. M. Hill, J. Meng, **N. Li** — 2024
Counting compatible indexing systems for C_{p^n}
Orbita Mathematicae (undergraduate research)

Awards and Honors

1. SIAM Student Travel Award — 2025

Talks and Presentations

3. *Anchored spirals in the theta model* — May 2026
SIAM Conference on Nonlinear Waves and Coherent Structures — Montréal, QC, Canada

2. *Anchored spirals in sharp-interface and phase oscillator models* (Poster) — May 2025
SIAM Conference on Applications of Dynamical Systems — Denver, CO

1. *Anchored spirals in sharp-interface and phase oscillator models* (Poster) — May 2025
Joint Alabama-Florida Conference on Differential Equations, Dynamical Systems and Applications — Birmingham, AL

Teaching and Mentorship

Teaching Assistant, University of Minnesota — 2022–Present
- MATH 3592H: Honors Mathematics — F25
- 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, UMN Directed Reading Program — Spring 2025
- Project: Physics-informed machine learning

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

Technical Skills

MATLAB, Python, C++, Mathematica