

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

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.
1. M. Hill, J. Meng, N. Li 2024
Counting compatible indexing systems for C_{p^n}
Orbita Mathematicae

Awards and Honors

1. SIAM Student Travel Award 2025

Talks and Presentations

2. Anchored spirals in the theta model May 2026
SIAM Conference on Nonlinear Waves and Coherent Structures
Montréal, QC, Canada
1. Anchored spirals in sharp-interface and phase oscillator models (Poster) May 2025
• SIAM Conference on Applications of Dynamical Systems
Denver, CO
• 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