

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 Mathematica (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