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. Existence and stability of anchored spiral waves in phase oscillators   2025
   Nan Li, Arnd Scheel
   in preparation.

3. Instability of anchored spirals in geometric flows   2025
   Anthony Cortez, **Nan Li**, Nathan Mihm, Alice Xu, Xiaoxing Yu, Arnd Scheel
   Preprint

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

1. Counting compatible indexing systems for C_{p^n} 2024
   Michael A. Hill, Jiayun Meng, **Nan Li**
   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   May 2025
   Applications | Birmingham, AL

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.