

# Vinh Thi Nguyen

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## EMPLOYMENT

<b>University of California Berkeley</b> Charles B. Morrey Visiting Assistant Professor	Berkeley, CA Jan 2026 – present
<b>Michigan State University</b> Postdoctoral Research Associate	East Lansing, MI Jul 2024 – Dec 2025
<b>Institute of Mathematics, Vietnam Academy of Science and Technology</b> Researcher	Hanoi, Vietnam 2013 – 2017

## VISITING POSITIONS

<b>Institute for Pure and Applied Mathematics (IPAM)</b> Postdoctoral Fellow Long program: “ <i>Bridging the Gap: Transitioning from Deterministic to Stochastic Interaction Modeling in Electrochemistry</i> ”	Los Angeles, CA Fall 2025
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## EDUCATION

<b>Ph.D. in Mathematics</b> , University of Illinois at Chicago (UIC) <i>Advisor: Prof. Roman Shvydkoy</i>	2024
<b>M.A. in Mathematics</b> , Indiana University Bloomington (IUB)	2019
<b>M.Sc. in Mathematics</b> , Institute of Mathematics, Hanoi, Vietnam <i>Advisor: Prof. Nguyen Dong Yen</i>	2012
<b>Bachelor of Education in Mathematics</b> , Thai Nguyen University of Education, Vietnam	2010

## HONORS & AWARDS

• Damber Singh Tomer and Meena Singh Tomer Endowed International Scholarship, UIC	2024
• Victor Twersky Memorial Scholarship, UIC	2022
• University Fellowship, Graduate College, UIC	2019 – 2023
• College of Arts and Sciences Fellowship, IUB	Spr 2018
• Vietnam Education Foundation Fellowship (VEF) ( <i>declined</i> )	Cohort 2016
• Travel Award: The 3rd HLF, Heidelberg, Germany	Aug 2015
• Honored for Excellent Performance in the Master Program, Hanoi Institute of Mathematics	2012
• Undergraduate Student Fellowship, Thai Nguyen University of Education	2007–2010

## RESEARCH INTERESTS

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PDEs, SPDEs, Models of Collective Behavior, Interacting Particle Systems, Duality Theory, Interpolation and Extension Theory, Optimization Theory

## PUBLICATIONS/ PREPRINTS

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7. V. Nguyen, R. Shvydkoy and C. Tan, *Mean-field limits of deterministic and stochastic flocking models with nonlinear velocity alignment*, [arXiv preprint](#), [arXiv:2512.24383](#).
6. V. Nguyen, *Non-attainment of minima in non-polyhedral conic optimization: a robust SOCP example*, [arXiv preprint](#), [arXiv:2510.00318](#)
5. V. Nguyen, *Exponential relaxation to equilibrium for a kinetic Fokker-Planck-Alignment equation with force*, [arXiv preprint](#), [arXiv:2310.16339](#).
4. V. Nguyen, K. Promislow and B. Wetton, *Quasisteady patterns in interfaces: folding and faceting*, *Physica D: Nonlinear Phenomena*, **482**, 2025.
3. V. Nguyen and R. Shvydkoy, *Continuous model of opinion dynamics with convictions*, *Discrete and Continuous Dynamical Systems* **43**(11):4010–4026, 2023.
2. V. Nguyen and R. Shvydkoy, *Propagation of chaos for the Cucker-Smale systems under heavy tail communication*, *Communications in Partial Differential Equations* **47**(9):1883–1906, 2022.
1. N. T. Vinh, D. S. Kim, N. N. Tam, and N. D. Yen, *Duality gap function in infinite dimensional linear programming*, *Journal of Mathematical Analysis and Applications* **437**(1):1–15, 2016.

## TEACHING

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### University of California Berkeley

- Math 123: Ordinary Differential Equations Spr 2026

I was a teaching assistant for the following courses:

### Michigan State University

- MTH 235. Differential Equations Spr 2025

### University of Illinois at Chicago

- MCS 401. Computer Algorithms I Spr 2024
- MATH 480. Applied Differential Equations Fall 2022
- MATH 417. Complex Analysis with Applications Fall 2022
- MATH 313. Analysis I Fall 2022
- MATH 165. Calculus for Business Spr 2021, 2022
- MATH 310. Applied Linear Algebra Fall 2020, Spr 2024
- MATH 539. Functional Analysis Fall 2020

### Indiana University Bloomington

- MATH-M 365. Intro Probability & Statistics Fall 2017

### University of North Carolina at Chapel Hill

- STOR 445. Stochastic Modeling Spr 2017
- STOR 113. Decision Models for Business and Economics Fall 2016

### University of Science and Technology of Hanoi

- Analysis and Differential Equations Falls 2014, 2015

## INVITED TALKS

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- Workshop: Recent Advances in Nonlinear Partial Differential Equations May 13–17, 2024  
University of Minnesota, Twin Cities (*Lightning talk*)
- Applied PDE Seminar, UC Berkeley (*Online*) Feb 23, 2024
- Applied Math Seminar, UC Santa Cruz Jan 08, 2024
- The 2023 SIAM Great Lakes Meeting, Michigan State University Oct 14, 2023  
Mini-Symposium: Collective behavior in physical and social network models
- International Workshop “Variational Analysis and Application” Aug 28 – Sep 05, 2015  
Erice, Sicily, Italy
- International Workshop on Nonlinear and Variational Analysis Aug 2014  
Center for Fundamental Science, Kaohsiung Medical University, Taiwan
- The 8th Congress of the Vietnamese Mathematical Society, Nha Trang, Vietnam Aug 2013

## CONFERENCES & WORKSHOPS ATTENDED

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- Riviere-Fabes Symposium on Analysis and PDE, University of Minnesota Apr 29 – May 1, 2022
- Midwestern Workshop on Asymptotic Analysis, Indiana University Bloomington Oct 5 – 7, 2018
- The Fourth Chicago Summer School In Analysis, University of Chicago Jun 19 – 30, 2017
- Workshop: Analysis in Lyon, Université Claude-Bernard Lyon 1, France Oct 26 – 30, 2015
- The 3rd Heidelberg Laureate Forum, Heidelberg, Germany Aug 23 – 28, 2015

## SERVICES

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**Referee Work:** Journal of Optimization Theory and Applications, Journal of Differential Equations

### Organizing:

- Co-organizing (with Keith Promislow) the minisymposium *Mean Field Limits of Particle Dynamics* at [the SIAM Conference on Applications of Dynamical Systems \(DS25\)](#), Denver, Colorado, May 11–15, 2025.
- Co-organizing (with Marjorie K. Drake and Paige Bright) the special session *Nonlinear Constraints: A Catalyst for Creativity in Analysis and its Applications* at [the 2025 AWM Research Symposium](#), University of Wisconsin-Madison, May 16–18, 2025.

### Outreach:

- Judge for the [Fellowship for Pre-Graduate Studies in Mathematics](#), 2025.

- Volunteer to help introduce kids to mathematics outside the standard curriculum at Glencairn Elementary School Math Night (Nov 21, 2024).
- Contributor to the Graduate Opportunities for Women (GROW) 2020 organization.

## TECHNICAL SKILLS

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Julia      Mathematica      MATLAB      Python      HTML      L<sup>A</sup>T<sub>E</sub>X