SON N.T. TU

tuson@msu.edu + https://tunguyenthaison.github.io

September 29, 2024

Research Interests: Hamilton–Jacobi equations, free boundary problems, integro-differential equations, optimal control, homogenization, dynamical systems

Academic Appointments

Visiting Assistant Professor	Aug 2022 – Present
Department of Mathematics, Michigan State University (MSU), East Lansing, N	MI
Mentor: Olga Turanova	

Teaching Assistant
 Vietnam National University, Ho Chi Minh City (VNU-HCMC), Vietnam

Education

 Mathematics Ph.D., University of Wisconsin-Madison (UW-Madison) Advisor: Hung Tran 	2016 – 2022
 B.S. Honor program in Mathematics, University of Science, VNU-HCMC Advisor: Khai Nguyen 	2011 – 2015

Publications and Preprints

In Submission

- 9. Bingyang Hu, **Son N. T. Tu**, and Jianlu Zhang, *Polynomial convergence rate for quasiperiodic homogenization of Hamilton–Jacobi equations*. Submitted (2024) · arXiv:2405.11516 [math.AP]
- 8. Russell Schwab, **Son N. T. Tu**, and Olga Turanova, *Well-posedness for viscosity solutions of the one-phase Muskat problem in all dimensions*. Submitted (2024) · arxiv:2404.10972 [math.AP]
- 7. **Son N.T. Tu** and Jianlu Zhang, *On the regularity of stochastic effective Hamiltonian*. Submitted (2024) arxiv:2312.15649 [math.AP]

Published

- 6. **Son N.T. Tu** and Jianlu Zhang, *Generalized convergence of solutions for nonlinear Hamilton–Jacobi equations with state-constraint*. Journal of Differential Equations 406 (Oct. 2024), 87-125
- 5. Farid Bozorgnia, Dohyun Kwon, and **Son N.T. Tu**, *The regularity with respect to domains of the additive eigenvalues of superquadratic Hamilton–Jacobi equation.* Journal of Differential Equations, 402, (Sep. 2024), 518-553
- 4. Yuxi Han and **Son N.T. Tu**, *Remarks on the vanishing viscosity process of state-constraint Hamilton–Jacobi equations*. Applied Mathematics & Optimization, 86(3) (Jun. 2022)
- 3. **Son N.T. Tu**, *Vanishing discount for Hamilton–Jacobi equation in nested domains*. Journal of Differential Equations, 317, (Apr. 2022), 32-69
- 2. Yeon-Eung Kim, Hung Vinh Tran, and **Son N.T. Tu**, *State-constraint static Hamilton–Jacobi equations in nested domains*. SIAM Journal on Mathematical Analysis, 52(5) (Sep. 2020), 4161–4184
- 1. **Son N.T. Tu**, Rate of Convergence for Periodic Homogenization of Convex Hamilton–Jacobi Equations in One Dimension. Asymptotic Analysis, 121(2) (Jan. 2021), 171–194

Refereed conference proceedings & papers

1. Thu Nguyen, Quang M. Le, Son N.T. Tu, and Binh Nguyen, *Unequal Covariance Awareness for Fisher Discriminant Analysis and Its Variants in Classification*. 2022 International Joint Conference on Neural Networks (IJCNN), (Jul. 2022)

Awards and Honors

• Research Travel Support from the Office of Postdoctoral Affairs, MSU	2024
• 2023–2024 Postdoctoral Prize for Excellence in Teaching, Department of Mathematics, MSU	2024
• Teaching Assistant Superior Rating FA 2017, FA 201 Mathematics Department, UW-Madison	8, FA 2019, FA 2020
Graduate Research Travel Grant, Graduate School, UW-Madison	2021
GSSC Fellowship, Graduate School, UW-Madison	2021
• Excellence in Research Award, Mathematics Department, UW-Madison	2020
Outstanding Teaching Assistant Award, Mathematics Department, UW-Madison	2020
• Vietnam Education Foundation (VEF) Fellowship (declined)	2016
 Valedictorian Award, University of Sciences, VNU-HCMC, Vietnam 	2015
• Third prize, Vietnam Mathematical Olympiad (VMO)	2011
World Finalist, Shing-Tung Yau High School Mathematics Awards, Beijing, China	2010
Professional Services	
 Referee for Mathematics Journals: Journal of Mathematical Physics (JMP), Journal of Geome Discrete and Continuous Dynamical Systems (DCDS), Proceedings of the American Ma (PAMS) 	
Co-organizer: AMS 2025 Spring Central Sectional Meeting, University of Kansas	Mar 29-30, 2025
 Co-organizer, Madison PDEs Conference, UW-Madison (Originally scheduled for April 2020; canceled due to COVID-19) 	
Co-organizer, AMS Student Chapter Seminar, UW-Madison	2018–2019
Outreach	
• (Scheduled) Interactive STEM demonstration for middle school students, as part of the <i>Girls Math and Science Day</i> , MSU	Mar 2025
 Lead an interactive STEM demonstration table on "Soap Bubbles and Minimal Surfaces" for middle school students, as part of the Girls Math and Science Day, MSU 	Mar 09, 2024
• Judge for University Undergraduate Research and Arts Forum 2023 (UURAF 2023), MSU	Apr 14, 2023
Undergraduate Research Mentoring	
• Undergraduate Research Mentor for Minh Nguyen, MSU Uniqueness set for Hamilton-Jacobi equations with state-constraints Awarded College of Natural Science Undergraduate Research Support Scholarship for Summer	024 – Summer 2025 r 2024.
• Directed Studies (MTH490): Minh Nguyen, MSU Topic: Optimal control theory and viscosity solutions to Hamilton–Jacobi equations with Best Presentation Award at the 21st Math Student Conference, MSU	Spring 2024
 Directed Reading Program: William Robert Korbitz and Luanda Cai, UW-Madison Topic: Optimal Control for Linear Systems 	Spring 2019
 Undergraduate PDEs Summer School: Daotong Ge and Hangyu Pi, UW-Madison Co-mentored by Hung Tran (instructor) 	Summer 2017

Selected Presentations

Selected Invited talks

20. (scheduled) PDEs Seminar, University of Tennessee - Knoxville	Nov 07, 2024
19. (scheduled) Colloquium, Minnesota State University - Mankato	Oct 29, 2024
18. (scheduled) Analysis Seminar, University of Maryland	Oct 24, 2024
17. (Online, scheduled) Analysis Seminar, Texas Tech University	Oct 14, 2024
16. Mini-workshop: Summer School in PDEs and Applications 2024, VIASM and SGU	Jul 27, 2024
15. (Online) Virtual Student PDEs Seminar, UW–Madison	May 30, 2024
14. PDEs Seminar, The Ohio State University	Apr 09, 2024
13. (Online) Seminars on Analysis and Stochastic Analysis, Auburn University	Mar 27, 2024
12. (Online) Early Career Math Colloquium, University of Arizona	Mar 21, 2024
11. SIAM Great Lakes Meeting (SIAMGL) 2023, Michigan State University Minisymposium: Nonlinear PDEs & Optimal Transport with Applications	Oct 15, 2023
10. Differential Equations and Nonlinear Analysis Seminar, North Carolina State University	Nov 09, 2023
9. Applied Analysis Seminar, Stinghua University, China	August 03, 2023
8. Analysis Seminar, University of Science, VNU-HCMC	Jun 20, 2023
7. Madison PDEs Conference, UW-Madison	May 15-19, 2023
6. (Online) Academy of Mathematics and Systems Science, Chinese Academy of Science	Apr 19, 2023
5. (Online) Academy of Mathematics and Systems Science, Chinese Academy of Science	Apr 26, 2023
4. Applied Math Seminar, University of North Carolina - Charlotte	Sep 24, 2021
3. (Online) Graduate School of Mathematical Sciences, The University of Tokyo	Oct 27, 2020
2. PDEs and Geometric Analysis Seminar, UW-Madison	Sep 23, 2019
1. 11th Summer Meeting Conference, University of Science, VNU-HCMC	Jul 30, 2019
Selected Contributed Talks and Posters	
7. Boston University/Keio University/Stinghua University Workshop 2024 on Differential Equations, Dynamical Systems and Applied Mathematics	Jun 01, 2024
6. Analysis and PDE Seminar, Michigan State University	Apr 17, 2024
5. 88 th Midwest PDEs Seminar, The Ohio State University	Apr 26-28, 2024
4. Poster: 8th Annual Scholar Showcase Office of International Students and Scholars, Michigan State University	Apr 06, 2024
3. Concentration week on Geometry and Analysis, University of Texas A&M	Jul 29, 2022
2. Geometric and Harmonic Analysis 2019, University of Connecticut	Mar 30, 2019
1. Poster: CNA Workshop 2019: Mathematical Models for Pattern formation Carnegie Mellon University	Mar 08, 2019

Teaching Experience

Topic in Optimal Control Theory, MTH 496-002 (Capstone course) Multivariable Calculus, MTH 234 Matrix Algebra with Computational Applications, MTH/CMSE 314 Multivariable Calculus, MTH 234 Multivariable Calculus, MTH 234 Multivariable Calculus, MTH 234 Multivariable Calculus, MTH 234 Instr. of Record MILTIVARIA 30 MILTIVARIA 3	Michigan State University	Role	# Students	Term
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•	Vietnam National University, HCMC	Role	# Students	Term
Calculus III MATH253 (Adv. Comp. Sci Univ. of Science) Recitation Instr 60 Fall 2015	Calculus II, MATH2153 (Excellent Program - Univ. of Informatics)	Recitation Instr.	~ 60	Spring 2016
Calculus III, MATT1255 (Aux. Comp. 5ci Oniv. of Science) Rechaulon Insti. ~ 00 Fall 2015	Calculus III, MATH253 (Adv. Comp. Sci Univ. of Science)	Recitation Instr.	~ 60	Fall 2015

Selected Conferences, Workshops Attended, & Research Visits

3. (Scheduled) AIM workshop: *Integro-differential equations in many-particle interacting systems* Apr 14–18, 2025 American Institute of Mathematics Richard N. Merkin Center for Pure and Applied Mathematics, Caltech

2. University of Seoul, hosted by Dohyun Kwon

Jul 4 – 8, 2024

1. Chinese Academy of Science, hosted by Jianlu Zhang

Jul 26 – Aug 7, 2023

Other Skills

• Computing Proficiency: Python, Matlab, Linux