

Min Zhao

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RESEARCH INTERESTS

- Partial differential equations and dynamic systems Reaction-diffusion equations, Nonlocal problems, Traveling waves, Spreading speed
 Biomathematics
- Prey-predator system, Nonlinear differential equation, Epidemic model
- Stochastic theory and process Brownian motion, Ergodic, Lévy process

SCIENTIFIC EDUCATION

09/2019-06/2023	Ph.D., Fundamental mathematics of Beijing Normal University, China
	Title: Propagation dynamics of several types of nonlocal problems
	Supervisor: Prof. Rong Yuan
	Defended on 03 June 2023
09/2021-09/2022	Joint training doctoral student, Applied mathematics
	Supervisors: Prof. Pierre Magal, University of Bordeaux, France
	Prof. Quentin Griette, University of Le Havre Normandy, France
09/2016-06/2019	Master degree, Mathematics of Taiyuan University of Technology, China
	Supervisor: Prof. Xiaoyun Wang
09/2011-06/2015	Bachelor degree, Mathematics and Applied Mathematics
· ·	Shanxi Datong University, China

RESEARCH PUBLICATIONS

• Publications

- 1. **M. Zhao**, R. Yuan, The persistence of solutions in a nonlocal predator-prey system with a shifting habitat, *Acta Mathematica Scientia*, 44 (2024), 1096–1114. (PDF)
- 2. H. Li, M. Zhao, R. Yuan, Traveling Waves of Modified Leslie-Gower Predator-prey Systems, International Journal of Biomathematics, 2350107 (2023), 1-34. (PDF)
- 3. M. Zhao, R. Yuan, Z. Ma, X. Zhao, Spreading speeds for the predator-prey system with nonlocal dispersal, *Journal of Differential Equations*, 316 (2022), 552–598. (PDF)
- 4. **M. Zhao**, Z. Ma, R. Yuan, The spreading speed and the existence of planar waves for a class of predator-prey system with nonlocal diffusion, *Taiwanese Journal of Mathematics*, 26(2) (2022), 381-410. (PDF)
- Y. Cheng, F. Zhang, M. Zhao, A stochastic model of HIV infection incorporating combined therapy of HAART driven by Lévy jumps, *Advances in Difference Equations*, 321 (2019), 1–17. (PDF)
- 6. X. Wang, M. Zhao, X. Wang, S. Li, N. Cao, H. Liu, The Application of Dynamic Models to the Exploration of β_1 -AR Overactivation as a Cause of Heart Failure, Computational and Mathematical Methods in Medicine, 2018 (2018) 1613290. (PDF)

Preprints

- 1. H. Li, **M. Zhao**, R. Yuan, Traveling Wave in a Ratio-dependent Holling-Tanner System with Nonlocal Diffusion and Strong Allee Effect, submitted, arXiv:2306.00666, (2023), 1–27.
- 2. H. Li, **M. Zhao**, R. Yuan, A sufficient condition on successful invasion by the predator, submitted, arXiv:2306.00713, (2023), 1–9.

- 3. M. Zhao, R. Yuan, Existence and Stability of Random Transition Waves for Nonautonomous Fisher-KPP Equations with Nonlocal Diffusion, submitted, arXiv:2305.19762, (2023), 1–27.
- 4. Q. Griette, P. Magal, M. Zhao, Traveling waves with continuous profile for hyperbolic Keller-Segel equation, submitted, arXiv:2204.06920, (2022), 1-27.

CONFERENCES AND COURSE

10/2022	International Conference on Nonlinear Partial Differential Equations 2022 and
	in honor of Prof. Hiroshi Matano's 70th Birthday
10/2022	Monotone Semiflows and Propagation Dynamiac
	Prof. Xiaoqiang Zhao, Memorial University of Newfoundland, Canada
9–10/2022	Introduction to the Theory of Traveling Waves
-	Prof. Henri Berestycki, EHESS, Paris
07/2020	Online Summer School on Nonlinear Differential Equations and Applications
·	Prof. François Hamel, Aix-Marseille University
10/2019	Symposium on Differential Equations and Dynamic Systems and commemo-
	rated the 90th anniversary of the birth of Mr. Tongren Ding
07/2016	Biomathematics Summer School
	Peking University

RESEARCH PROJECTS

01/2022-12/2025	
(participated)	Some problems in the differential equation of almost periodic and time-
	delay (No. 12171039)
01/2019–12/2021	The National Natural Science Foundation of China
(participated)	Game-based modeling of brucellosis transmission dynamics and Appli-
	cations (No. 11801398)

AWARDS AND HONOR

2022	Graduate Academic Innovation Award Special Prize	
	Beijing Normal University	
2020	Second Class Academic Scholarship	
	Beijing Normal University	
2019-2020	Outstanding undergraduate teaching assistant	
	Beijing Normal University	
2018-2019	Second class academic scholarship	
	Taiyuan University of Technology	
2013-2014	National Inspirational Scholarship	
	Shanxi Datong University	

WORK EXPERIENCE

08/2023-Present	Lecturer of Mathematics at the School of Science
-	Tianjin Chengjian University, China Advanced Algebra Exercises
09/2020-01/2021	Advanced Algebra Exercises
	Beijing Normal University Junior high school mathematics
08/2015-08/2016	Junior high school mathematics
	tutoring institution in Datong of Shanxi Province, China

SKILLS

Language | Chinese (Native), English Professional Knowledge | Office, LaTeX, Matlab, OriginPro

INTERESTS AND ACTIVITIES

- Reading (Detective and reasoning books are my favorite)
- Travelling