



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

since 09/2019	PhD Candidate, Basic mathematics Prof. Rong Yuan, Beijing Normal University, China
09/2021–09/2022	Joint training doctoral student, Basic mathematics Prof. Pierre Magal, University of Bordeaux, France Prof. Quentin Griette, Université Le Havre Normandie, France
09/2016–06/2019	Master degree, Mathematics Prof. Xiaoyun Wang, Taiyuan University of Technology, China
09/2011–06/2015	Bachelor degree, Mathematics and Applied Mathematics Shanxi Datong University, China

RESEARCH PUBLICATIONS

• Publications

1. **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.
2. **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.
3. 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.
4. X. Wang, **M. Zhao**, X. Wang, S. Li, N. Cao, H. Liu, The Application of Dynamic Models to the Exploration of beta1-AR Overactivation as a Cause of Heart Failure, *Computational and Mathematical Methods in Medicine*, 2018 (2018) 1613290.

• Preprints

1. **M. Zhao**, R. Yuan, Persistence of solutions in a nonlocal predator-prey system with a shifting habitat, submitted, arXiv:2306.00649, (2023), 1–23.
2. 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.
3. H. Li, **M. Zhao**, R. Yuan, Traveling Waves of Modified Leslie-Gower Predator-prey Systems, submitted, arXiv:2306.00701, (2023), 1–32.
4. H. Li, **M. Zhao**, R. Yuan, A sufficient condition on successful invasion by the predator, submitted, arXiv:2306.00713, (2023), 1–9.

5. **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.
6. 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
10/2019	Symposium on Differential Equations and Dynamic Systems and commemorated the 90th anniversary of the birth of Mr. Tongren Ding
11/2017	Conference on Dynamical Systems and Biomathematics Shanxi University
07/2016	Biomathematics Summer School Peking University

RESEARCH PROJECTS

01/2022–12/2025 (participated)	The National Natural Science Foundation of China Some problems in the differential equation of almost periodic and time-delay (No. 12171039)
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AWARDS AND HONOR

2022	Graduate Academic Innovation Award Special Prize Beijing Normal University
2021	Third Class Academic Scholarship 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

09/2020–01/2021	Advanced Algebra Exercises Beijing Normal University
08/2015–08/2016	Junior high school mathematics tutoring institution in Datong of Shanxi Province, China
09/2014–11/2014	Junior high school mathematics Yungang Middle School 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