



MIN ZHAO

Date of Birth: 16 January 1992

Address: No.19, Xijiekouwai St, Haidian District,
Beijing, 100875, China

Phone: +86 18801158612

Email: minzhao@mail.bnu.edu.cn

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

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. 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.
4. 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.
5. **M. Zhao**, R. Yuan, Persistence of solutions in a nonlocal predator-prey system with a shifting habitat, arXiv:2306.00649.
6. **M. Zhao**, R. Yuan, Existence and Stability of Random Transition Waves for Nonautonomous Fisher-KPP Equations with Nonlocal Diffusion, arXiv:2305.19762.
7. Q. Griette, P. Magal, **M. Zhao**, Traveling waves with continuous profile for hyperbolic Keller-Segel equation, arXiv:2204.06920.
8. H. Li, **M. Zhao**, R. Yuan, Traveling Wave in a Ratio-dependent Holling-Tanner System with Nonlocal Diffusion and Strong Allee Effect, arXiv:2306.00666.

9. H. Li, **M. Zhao**, R. Yuan, Traveling Waves of Modified Leslie-Gower Predator-prey Systems, arXiv:2306.00701.
10. H. Li, **M. Zhao**, R. Yuan, A sufficient condition on successful invasion by the predator, arXiv:2306.00713.

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