

Ping-an He

PHD STUDENT · PROBABILITY & MATHEMATICAL STATISTICS

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Education

Beijing Normal - Hong Kong Baptist University

Zhuhai, Guangdong, China

PH.D. IN PROBABILITY AND MATHEMATICAL STATISTICS

Sep 2023 – Present

- Advisor: Prof. Huajun Ye and Prof. Kai-Tai Fang
- Research interests: Copula models; resampling methods for dependent structures; quasi-Monte Carlo methods.

Nankai University

Tianjin, China

M.SC. IN APPLIED MATHEMATICS

Sep 2019 – Jun 2022

- Advisor: Prof. Hong Wang
- Research interests: Geometric control theory; statistical change point detection.

Xinjiang University

Urumqi, Xinjiang, China

B.SC. IN APPLIED MATHEMATICS

Sep 2015 – Jun 2019

- Advisor: Prof. Xinlong Feng
- GPA: 3.72 / 4.0
- Honors: Outstanding Graduate (2019).

Professional Experience

2023– Present **Teaching Assistant, Calculus (Dept. of Statistics and Data Science)**, Beijing Normal - Hong Kong Baptist University

2022 **Research Assistant**, School of Mathematical Sciences, Nankai University

2021–2022 **Graduate Teaching Assistant, Advanced Mathematics (Undergraduate, Business School)**, Nankai University

2017 **Team Leader, “Shenzhen Cup” Mathematical Modeling Challenge Competition**, Xinjiang University

Publications

PUBLISHED

He, P., Fang, K.-T., He, P., and Ye, H. (2025). “A new resampling method for meta Gaussian distributions.” *Statistics and Computing*. doi:10.1007/s11222-025-10717-4.

Yang, Y., **He, P.**, Peng, X., and He, Q. (2025). “A novel number-theoretic sampling method for neural network solutions of partial differential equations.” *Neural Networks*, 192:107945. doi:10.1016/j.neunet.2025.107945.

IN REVIEW

Wang, S., Li, Y., Fang, K.-T., **He, P.**, and Ye, H. “A new non-parametric resampling method based on representative points.” (under review).

He, P., Fang, K.-T., Peng, H., and Ye, H. “A Novel Resampling Framework for t -Dependent Structures Based on MSE Criteria.” (submitted).

Awards, Fellowships, & Grants

Jun 2019 **Outstanding Graduate**, Xinjiang University

- Nov 2018 **National Scholarship for Undergraduates**, Ministry of Education
- Jun 2018 **Youth Science and Technology Innovation Award**, Xinjiang Autonomous Region People’s Government
- May 2018 **Third Prize, National English Competition for College Students (Band C)**, Competition Organizers
- Dec 2017 **Inspirational Scholarship**, Xinjiang Autonomous Region People’s Government
- Dec 2017 **“Furong Students · Model Force” Award for Self-improvement**, Xinjiang University
- Aug 2017 **Second Prize of Excellent Paper, “Shenzhen Cup” Mathematical Modeling Challenge**, Shenzhen Cup Organizers
- May 2017 **First Prize, National English Competition for College Students (Band C)**, Competition Organizers

Presentations

- Dec 2, 2024. Joint Graduate Student Academic Symposium, Department of Statistics, Southern University of Science and Technology (SUSTech) and UIC. Southern University of Science and Technology, Shenzhen, China. (Oral presentation.)
- June 7–8, 2025. 2025 Annual Conference of the Multivariate Analysis Applications Committee, Chinese Association for Applied Statistics (CAAS) — “Cuihu Forum”. Chongqing Technology and Business University, Chongqing, China. (Oral presentation.)
- Oct 21–23, 2025. 10th Anniversary & Symposium on Discipline Development, School of Mathematics, Sun Yat-sen University (Zhuhai). Sun Yat-sen University (Zhuhai), Zhuhai, China. (Oral presentation.)

Teaching Experience

- Sep 2023 – **Calculus (Undergraduate)**, Teaching Assistant – weekly office hours; assignment design & grading BNBU
- Present
- Aug 2021 – **Advanced Mathematics (Undergraduate)**, Graduate Teaching Assistant – office hours, NKU
- May 2022 assignment review & grading
- Jan 2022 – **Mathematical Analysis (Undergraduate)**, Research Assistant – prepared lecture notes and NKU
- Dec 2022 assisted instruction

Outreach & Professional Development

- Fudan University — “Application and Innovation of Data Science” Graduate Summer School and AI Training Camp (04–15 July 2022). Topics: statistical learning, NLP, Bayesian optimization.
- Southern University of Science and Technology (SUSTech) — Symposium on Statistics and Data Science (21–22 May 2022).
- East China Normal University — Shanghai Postgraduate Summer School in Statistics (19–24 July 2021). Topics: statistical analysis of network data, non-Euclidean data analysis, tensor learning, empirical Bayes.
- Peking University — Applied Mathematics Summer School (12–31 July 2021). Topics: computational inverse problems; uncertainty quantification.
- Peking University — Summer School in Biostatistics (02–07 Aug 2021). Topics: survival analysis, counting processes, semi-parametric models.
- Xiamen University — Lecture Series: Phase Field and Nonlocal Modeling (29 June–08 July 2020). Topics: nonlocal modeling and efficient numerical schemes for nonlinear systems.
- Peking University — Applied Mathematics Summer School (23 July–02 Aug 2019).
- Xiamen University — Finsler Geometry Summer School (25 June–13 July 2019).