

# Ping-an He

PHD STUDENT · PROBABILITY & MATHEMATICAL STATISTICS

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## Education

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### **Beijing Normal - Hong Kong Baptist University**

PH.D. IN PROBABILITY AND MATHEMATICAL STATISTICS

Zhuhai, Guangdong, China

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**

M.Sc. IN APPLIED MATHEMATICS

Tianjin, China

Sep 2019 – Jun 2022

- Advisor: Prof. Hong Wang

• Research interests: Geometric control theory; statistical change point detection.

### **Xinjiang University**

B.Sc. IN APPLIED MATHEMATICS

Urumqi, Xinjiang, China

Sep 2015 – Jun 2019

- Advisor: Prof. Xinlong Feng

• GPA: 3.72 / 4.0

• Honors: Outstanding Graduate (2019).

## Professional Experience

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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

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### 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

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Jun 2019 **Outstanding Graduate**, Xinjiang University

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

## Presentations

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- 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

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

## Outreach & Professional Development

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- 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).