

# BAICHEN YU

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🏡 <https://jamesyu420.github.io>

## Education

### Peking University

*Ph.D. Candidate in Statistics at Guanghua School of Management*

09 2023–

Beijing, China

Advisor: Prof. Hansheng Wang

### The Hong Kong University of Science and Technology

*Visiting PG Internship at Department of Mathematics*

07 2025– 12 2025

Hong Kong SAR, China

Advisor: Prof. Can Yang

### East China Normal University

*B.Sc. in Statistics - GPA: 3.84/4 - Rank: 1/86*

09 2019 – 06 2023

Shanghai, China

## Research and Publications

### A Semiparametric Gaussian Mixture Model with Spatial Dependence and Its Application to Whole-Slide Image Clustering Analysis

*Baichen Yu, Jin Liu\*, and Hansheng Wang*

*Biometrics, just accepted.*

### A Geometrical Model for Abnormal Motion Detection of Portal Crane Bucket Grab

*Baichen Yu, Xiao Wang\* and Hansheng Wang*

*Engineering Applications of Artificial Intelligence, 2025, Volume 139, Part A: 109481.*

### High-Dimensional Spatial Autoregression with Latent Factors By Diversified Projections

*Jiaxin Shi, Xuening Zhu\*, Jing Zhou, Baichen Yu and Hansheng Wang*

*Journal of the American Statistical Association, just accepted.*

### Detecting Breast Carcinoma Metastasis on Whole-Slide Images

**by Partially Subsampled Multiple Instance Learning**

*Baichen Yu, Xuetong Li\*, Jing Zhou and Hansheng Wang*

*The Annals of Applied Statistics*

*Major Revision*

## Conference and Invited Talks (see full list in my homepage)

- ICSA China Conference, 2023 and 2024
- Hangzhou International Conference on Frontiers of Data Science, 2023
- The 2nd Joint Conference on Statistics and Data Science in China, 2024
- The 7th International Conference on Econometrics and Statistics (EcoSta 2024)

## Teaching Experience (see details in my homepage)

- Teaching Assistant
  - Regression Analysis (UG) - 2022 Fall @ECNU
  - Deep Learning and Artificial Intelligence (UG & PG & MBA) - 2023, 2024 Fall @PKU
  - Business Data Analysis and Forecasting (MBA) - 2024 Spring @PKU
  - Academic Writing (BA) - 2024, 2025 Spring @PKU
  - Python Fundamentals for Data Science (UG & PG) - 2024 Fall @PKU

## Honor

- Merit Student of Guanghua School of Management, Peking University
- Outstanding Teaching Assistant Award, Guanghua School of Management, Peking University
- Shanghai Outstanding Graduates (Summa Cum Laude)
- First-class Scholarship of East China Normal University

## Skills

**Programming Languages:** R, Python (TensorFlow & PyTorch), C++, Julia, SQL, L<sup>A</sup>T<sub>E</sub>X

**Natural Languages:** Chinese, English