BAICHEN YU

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Education

Peking University   **09 2023–**
Ph.D. Candidate in Statistics at Guanghua School of Management   *Beijing, China*
Advisor: Prof. Hansheng Wang

The Hong Kong University of Science and Technology   **07 2025– 12 2025**
Visiting Postgraduate Student at Department of Mathematics   *Hong Kong SAR, China*
Advisor: Prof. Can Yang

East China Normal University   **09 2019 – 06 2023**
B.Sc. in Statistics - GPA: 3.84/4 - Rank: 1/86   *Shanghai, China*

Research and Publications

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.

Detecting Breast Carcinoma Metastasis on Whole-Slide Images
by Partially Subsampled Multiple Instance Learning
Baichen Yu, Xuetong Li, Jing Zhou and Hansheng Wang*   *Under Review*

A Semiparametric Gaussian Mixture Model with Spatial Dependence
and Its Application to Whole-Slide Image Clustering Analysis
Baichen Yu, Jin Liu, and Hansheng Wang*   *Revision Invited*

High-Dimensional Spatial Autoregression with Latent Factors By Diversified Projections
Jiaxin Shi, Xuening Zhu, Jing Zhou, Baichen Yu and Hansheng Wang*   *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

Regression Analysis (UG)   **2022 Fall**
Teaching Assistant (Instructor: Prof. Xianyi Wu)   *East China Normal Univeristy*

Deep Learning and Artificial Intelligence (UG & PG & MBA)   **2023,2024 Fall**
Teaching Assistant (Instructor: Prof. Hansheng Wang)   *Peking Univeristy*

Business Data Analysis and Forecasting (MBA)   **2024 Spring**
Teaching Assistant (Instructor: Prof. Hansheng Wang)   *Peking Univeristy*

Academic Writing (BA)   **2024, 2025 Spring**
Teaching Assistant (Instructor: Prof. Hansheng Wang)   *Peking Univeristy*

Python Fundamentals for Data Science (UG & PG)   **2024 Fall**
Teaching Assistant (Instructor: Dr. Yuan Gao)   *Peking Univeristy*

Honor

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

Skills

Programming Languages: R, Python (TensorFlow & PyTorch), C++, Julia, SQL, LaTeX
Natural Languages: Chinese, English