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 PG Internship 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
<u>Baichen Yu</u>, 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, <u>Baichen Yu</u> 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
<u>Baichen Yu</u>, Xuetong Li*, Jing Zhou and Hansheng Wang
The Annals of Applied Statistics *Major Revision*

A Semiparametric Gaussian Mixture Model with Spatial Dependence
and Its Application to Whole-Slide Image Clustering Analysis
<u>Baichen Yu</u>, Jin Liu*, and Hansheng Wang
Biometrics *Revision Submitted*

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, LaTeX
Natural Languages: Chinese, English