

# BAICHEN YU

Beijing, China

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## Education

### Peking University

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

09 2023–

*Beijing, China*

Advisor: Prof. Hansheng Wang

### East China Normal University

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

09 2019 – 06 2023

*Shanghai, China*

## Research and Publications

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

by Partially Subsampled Multiple Instance Learning

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

*Revised & Resubmitted*

### 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*

*Major Revision*

### A Semiparametric Gaussian Mixture Model with Spatial Dependence

and Its Application to Whole-Slide Image Clustering Analysis

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

*Working Paper*

### 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)
- The 17th China-R Conference, 2024

## Teaching Experience

### Regression Analysis (UG)

*Teaching Assistant (Instructor: Prof. Xianyi Wu)*

2022 Fall

*East China Normal University*

### Deep Learning and Artificial Intelligence (UG & PG & MBA)

*Teaching Assistant (Instructor: Prof. Hansheng Wang)*

2023, 2024 Fall

*Peking University*

### Business Data Analysis and Forecasting (MBA)

*Teaching Assistant (Instructor: Prof. Hansheng Wang)*

2024 Spring

*Peking University*

### Academic Writing (BA)

*Teaching Assistant (Instructor: Prof. Hansheng Wang)*

2024 Spring

*Peking University*

### Python Fundamentals for Data Science (UG & PG)

*Teaching Assistant (Instructor: Dr. Yuan Gao)*

2024 Fall

*Peking University*

## Internship

### Department of Mathematics, HKUST

*Research Intern advised by Prof. Can Yang*

07 2022 – 08 2022

*Hong Kong SAR, China*

### China Logistics Information Center

*Economic Analyst*

07 2021 – 08 2021

*Beijing, China*

## Honor

- Shanghai Outstanding Graduates (Summa Cum Laude)
- First-class scholarship of East China Normal University

## Skills

**Programming Languages:** R, Python (TensorFlow & PyTorch), C++, Julia, SQL,  $\text{\LaTeX}$

**Natural Languages:** Chinese, English