Yibo Wang

#96 Jinzhai Rd., Hefei, Anhui 230026, P.R. China
Mobile: +86 18806589930 **Email**: yibooo@mail.ustc.edu.cn

Education

University of Science and Technology of China Sept. 2022 - Present

Bachelor of Science, Department of Statistics and Finance, School of Management

- **Major**: Statistics **GPA**: 3.93/4.30 **Weighted Score**: 91.24 **Rank**: 2/85 in School
- **Research Interests**: Statistics of Network Analysis, High-dimentional Statistics
- **Selected Courses**: Applied Statistical Software(100), Functional Analysis(99), Database Technology and Applications(97), Regression Analysis(96), Time Series Analysis(96), Linear Algebra(95), Mathematical Analysis(93), Applied Stochastic Processes(92), Complex Variable(90), Real Analysis(88), Mathematical Statistics(88), Probability(87)

Publications

1. Wu, J., **Wang, Y.**, Pang, X., Zhang, Z. and Zhao, R. (2024). New Quality Productive Forces and Digital Economy: Measurement Index, Coupling Coordinated Degree and Influence Mechanism. (Under Review)

Research Experience

R Code for an Annotated Graph Model for Directed Networks Feb. 2025

Contributor Advisor: ***Prof. Chenlei Leng*** *(Professor of Department of Statistics, University of Warwick)*

- Reviewed recent papers on statistical analysis of networks via reparameterization of the β-model, especially when contextual information and degree heterogeneity are present.
- Produced R code for an annotated graph model accounting for the above features, including data simulation, the ℓ_1-penalized likelihood estimation, and inference on the covariate parameter.

Evolution and Influence Mechanism of New Quality Productive Forces and Digital Economy May 2024 - Oct. 2024

Team Leader Advisor: ***Prof. Jie Wu*** *(Professor of Department of Management Science, USTC)*

- Constructed measurement index systems for the new quality productive forces(NQPF) and digital economy(DECO). Employed the cross entropy weight method to measure their levels across 30 provinces in China from 2013 to 2022.
- Analyzed the spatiotemporal evolution and coupling relationship of NQPF and DECO, utilizing kernel density estimation, Dagum gini coefficient, and coupling coordination degree model.
- Explored the influence mechanisms between NQPF and DECO by fixed effects model, moderation effects model and threshold regression model. Found that NQPF significantly promoted the development of DECO, with fintech playing a positive moderating role and exhibiting a triple threshold effect.

Teaching Assistant

STAT3002: Applied Statistical Software, USTC Spring 2025

- Undergraduate Course, Lecturer: Canhong Wen & Jing Zeng

Scholarships and Awards

- China National Scholarship (Top 0.4% Nationwide) Nov. 2024
- First Prize in 15^{th} Chinese Mathematics Competitions in Anhui Province Dec. 2023
- Bronze Prize in 1^{st} USTC Yuqing Cup Campus Software Design Competition Nov. 2023
- JAC Motors & NIO Joint Scholarship (Top 3 in School) Oct. 2023
- Student Grants by National Basic Subject Talent Training Plan in USTC Dec. 2022

Academic Experience

Zhejiang University 2024 SDG Global Summer School July 2024

- Course: Data Acquisition and Processing School of Mathematical Sciences, Zhejiang University

---

Oxford Prospects Programmes - 2024 Winter On-Campus Programme Jan. 2024 - Feb. 2024

- Module: STEM OPGDI, Regent's Park College, University of Oxford

Leadership and Activities

- **President** of USTC Harmonica Association Sept. 2024 - Present
- **Commissioner** of USTC Harmonica Association Feb. 2023 - June 2024