

# Yibo Wang

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## 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:** 3.98/4.30 **Weighted Score:** 91.20

## PUBLICATIONS

- 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

Regression Analysis of Correlations for Longitudinal Data

Feb. 2025 - Present

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

- Employed a new generalized z-transformation that converts correlation matrices constrained to be positive definite to vectors with unrestricted support, enabling the regression analysis for correlations.
- Developed regression analysis incorporating covariates for the modelling of correlations under exponential family assumption, via the use of generalized estimating equations and pseudo-likelihood approach.

Evolution and Influence Mechanism of New Quality Productive Forces and Digital Economy

May 2024 - Oct. 2024

Advisor: **Prof. Jie Wu** (Professor in 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.

## SCHOLARSHIPS AND AWARDS

- China National Scholarship (Top 0.4% Nationwide) Dec. 2024
- First Prize in 15<sup>th</sup> Chinese Mathematics Competitions in Anhui Province Dec. 2023
- Bronze Prize in 1<sup>st</sup> 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

Warwick Summer Research Experience

June 2025 - Sept. 2025

- Summer Research Internship Student in Statistics Advisor: **Prof. Chenlei Leng**

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

## TEACHING ASSISTANT

STAT3002: Applied Statistical Software, USTC

Spring 2025

- Undergraduate Course, Lecturer: Canhong Wen & Jing Zeng

## LEADERSHIP AND ACTIVITIES

- President** of USTC Harmonica Association Sept. 2024 - June 2025
- Commissioner** of USTC Harmonica Association Sept. 2023 - June 2024