

# Zhanli Li

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## Welcome to Zhanli Li's CV!

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Hi, I'm Zhanli Li, an undergraduate student majoring in Digital Economics at ZUEL, and my recent research interests mainly include NLP, multimodality and applied microeconometrics. I have led several team awards in various mathematical modeling competitions, and I have produced two academic papers on projects that have an intersectional background in deep learning, operations research, and econometrics.

## Education

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**Zhongnan University of Economics and Law**

Sept 2023 – May 2027

*Wenlan School of Business (Honors College), Digital Economy*

• **GPA:** 3.88/4.0    **Weighted Average Score:** 92.41    **Ranking:** 4/78(Top 5%)

### Coursework:

- **Mathematical:** Mathematical Analysis (I, II, III; Bilingual)    Linear Algebra    Probability Theory and Mathematical Statistics    *Average Score 93.41*
- **Computer:** Introduction to Big Data Analysis    Artificial Intelligence and Data Processing    Introduction to Python for Data Science    Mathematical Modeling    *Average Score 97.89*
- **Economics:** Mathematical Economics (Bilingual)    Intermediate Microeconomics (Bilingual)    Intermediate Macroeconomics (Bilingual)    *Average Score 93*

## Research

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**ESG Rating Disagreement and Total Factor Productivity,**

June 2024 – Sep 2024

Wenlan School of Business – Wuhan, Hubei

- Independently analyzed the relationship between ESG rating divergence and TFP using an econometric model robustly (based on Python)
- Independently exploring the nonlinear relationship between ESG rating disagreement and TFP using the interpretable machine learning frameworks XGBoost and SHAP (based on Python)
- Independent use of LaTeX to write drafts and revisions

**Vegetable Supply Chain Forecasting and Optimization,** Remote

Sep 2024 – Jan 2025

- Collaboration with other co-authors on LSTM experiments and correction of residuals using Markov chains
- Independently responsible for LaTeX paper layout

## Papers

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- ESG Rating Disagreement and Corporate Total Factor Productivity: Inference and Prediction (October 2024, with Zichao Yang), **Minor Revision**, *Finance Research Letters, Second Annual Conference on Inclusive Finance, FinTech, and Sustainable Development* (First Author)
- Optimization of Vegetable Sales and Ordering: Demand Forecasting and Intelligent Decision-Making in Supply Chain Management (January 2025, with Yuchi Li, Jiqing Sun, Jianhao Li, Yuting Xu, Lili Xia), **Under Review** *International Journal of Systems Science: Operations & Logistics* (Second Author)

## Awards

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### Academic Awards:

- Excellent 'Three Good Student' of Hunan Province, April 2023 (Top 1% in High Schools in Hunan Province)
- Zhongnan University of Economics and Law Academic Scholarships(Top 5% in ZUEL)

### Competition Award:

- Asia-Pacific Mathematical Modeling Competition, Second Prize\*1 Third Prize\*1 (Leader, Top 15% and 25% in all teams)

- Huasu Cup Mathematical Modeling Competition, Meritorious Prize (Leader, Top 15% in all teams)

#### **Research Award:**

- Bowen Cup Empirical Research Fund for Undergraduates, Third Prize (Leader, Top 5% in ZUEL)
- China Student Innovation Training Fund (Leader)

### **Projects in Progress**

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#### **ESGformer: An Automatic Rating Model Integrating Financial and ESG Information**

Github repository

- Encode ESG reports using LLM
- Integrate ESG information with financial indicators using cross-attention mechanisms
- Develop a neural network architecture for automatic ESG rating with finetuning capabilities

### **Technologies**

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**Programming Languages:** Python(numpy, pandas, matplotlib, sklearn, pytorch, quantecon, linermodel)

**Academic Writings:**  $\text{\LaTeX}$ (article, beamer)    PowerPoint