

# YANYING WEI

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## EDUCATION

### University of Chinese Academy of Sciences (Top Graduate Schools in China)

Beijing, China

**M.Sc. in Finance** (Applied Economics | Natural Resource Management & Industrial Economics)

September 2019 - June 2022

Core courses:

GPA: 3.8/4

- Advanced Macroeconomics
- Advanced econometrics
- Environmental Economics
- Optimization & Simulation
- Advanced Microeconomics
- Financial Engineering
- Business Data Analytics
- Big Data Mgmt & Apps

### Guangxi University (World-Class Universities, Project 211)

Nanning, China

**B.Sc. in Finance** (Applied Economics | Financial Mathematics)

September 2015 - June 2019

Core courses:

GPA: 3.3/5

- Mathematical Analysis
- Operations Research
- Stochastic Processes
- Database
- Advanced Algebra
- Behavioral Finance
- Risk Management
- Statistics

## PUBLICATIONS

- Wei, Y.,** Quan, L., Wei, Z., & Deng, L. (2024). **Analysis on Efficiency and Influencing Factors of Guangxi technology and finance Based on DEA Model.** *Journal of Innovations in Economics & Management*, 5(1), 40-76. (ISSN: 3006-6751, IF: 1.7)
- Deng, L., Deng, Z., & **Wei, Y.** (2024). **Research on the influence of ESG performance on BYD's innovation ability.** *Journal of Innovations in Economics & Management*, 5(1), 77-102. (ISSN: 3006-6751, IF: 1.7)
- Wang, D., Yu, H., Huangfu, Y., **Wei, Y.,** & Dong, Z. (2024). **Dynamic Evolution and Trend Frontier of Research on Land Use Change: A Bibliometric Analysis Based on the WoS Core Database from 1990 to 2020.** *Management Review*, 36(1), 87. (Published in a Chinese Core Journal, IF:5.546)
- Dong, Z., **Wei, Y.,** Ren, C., & Wang, S. (2022). **Comprehensive Land Consolidation for Rural Revitalization: Public Value Creation and Realization.** *Resources Science*, 44(7). (Published in a Chinese Core Journal, IF:3.16. Reviewed and selected as one of the FRONTRUNNER 5000 TOP ARTICLES IN OUTSTANDING S&T JOURNALS OF CHINA IN 2022)
- Huang, X., **Wei, Y.,** & Wang, D. (2022). **Capital market opening, investment efficiency, and total factor productivity of enterprises: An empirical study based on the opening of the Shenzhen-Hong Kong Stock Connect.** *Science & Technology for Development*, 18(3), 375-384. (ISSN: 1672-996X, IF: 0.66)
- Wei, Y.** (2019). **Research on Credit Card Default Risk Prediction Based on BP Neural Network.** Presented at the 4<sup>th</sup> IEEE International Conference on Cybernetics (Cybconf), Beijing, China.

## RESEARCH EXPERIENCE

### Research on Carbon Emissions in Guangxi Province Based on LMDI and Tapio Decoupling Models

January 2024 - Current

- Reviewed and synthesized over 100 relevant academic papers to inform methodology and contextualize findings.
- Collected and processed data from over 50 governmental and industrial sources, ensuring high data accuracy and reliability.
- Conducted in-depth analysis using LMDI and Tapio decoupling models to evaluate the carbon intensity of Guangxi's economy.
- Identified key drivers of carbon emissions and quantified their impact, showing a 15% reduction in carbon intensity over five years.

### Efficiency Measurement in Guangxi's Science and Technology Finance: Based on DEA Model

October 2023 - June 2024

- Led a study on efficiency measurement in Guangxi's science and technology finance using DEA modeling, encompassing literature review, data collection, model analysis, and conclusion.
- Utilized the DEA model to assess the efficiency of science and technology finance in Guangxi, identified inefficiencies, and quantified their impact, offering actionable insights for policymakers and stakeholders.
- Mentored one student in producing graduation theses based on project findings, resulting in recognition for outstanding theses.

### Research on Coupling Coordination of Land Use, Socio-Economic, and Ecological Systems

January 2021 - June 2022

- Conducted a comprehensive literature review using R language with the Bibliometrix package and CiteSpace, analyzing over 500 academic sources.
- Utilized Principal Component Analysis (PCA) to filter influential factors, and expanded the study's scope to include a supply chain perspective in assessing system coupling coordination.
- Quantified the coupling coordination degree of land use, socio-economic, and ecological systems, providing a measurable indicator of system integration and sustainability, with a demonstrated improvement of 20% in system efficiency.

RESEARCH FUNDINGS

- **Principal Investigator. Feixiangjia: A Solid Waste Management Platform Tailored for SMEs.** Supported by Nanning University (Grant No. S2024-1154-9017X), *June 2024 - December 2027.*
- **Principal Investigator. Research on the Decoupling State and Driving Mechanism of Carbon Emissions in Guangxi under the Dual-Carbon Target.** Supported by the Research Foundation for Youth and Middle-Aged Improvement of Bureau of Science and Technology of Guangxi Province, China (Grant No. 2024-KY-1871), *January 2024 - December 2025.*
- **Principal Investigator. Digital Empowerment for Bank Loans and Regulatory Innovation.** Supported by Nanning University (Grant No. S2023-1154-9126), *January 2024 - December 2024.*

PROFESSIONAL EXPERIENCE

**Nanning University, School of Digital Economy**  
*Lecturer of Fintech*

**Nanning, China**  
*September 2022 - Current*

- **Core Course Instruction:** Delivered lectures in Python Programming, Python Data Mining, Financial Big Data Technologies, and Econometrics to over 200 students annually, integrating advanced theory with practical applications.
- **Curriculum Development:** Enhanced course materials with cutting-edge financial technology and Python programming, maintaining relevance to the digital economy and boosting student engagement and comprehension.
- **Research and Mentorship:** Initiated and completed 5 of 8 proposed projects at the Digital Economy Research Institute, published findings, and provided academic and career guidance to over 50 students, contributing to a 95% thesis defense pass rate.

**Shanxi Land Institute of Natural Resources and Green Development**  
*Staff of Technology R&D*

**Beijing, China**  
*June 2021 - July 2022*

- **Project Leadership:** Led significant projects, such as the *Study on Comprehensive Land Improvement in Huangtong Town, Lingao County, Hainan Province*, and the *Construction of a Town of Incense in Huangtong Town*, securing a 3 billion yuan investment.
- **Policy Development:** Spearheaded integrated land policy projects in Xinjiang, Guangxi, and Yunnan, enhancing land utilization efficiency by an estimated 10%.
- **Publication Contribution:** Authored a module in the *Natural Resources Lecture Series*, published by China Earth Publishing House, on fundamental information science principles.

HONORS & AWARDS

- **Nanning University Outstanding Graduation Thesis:** Outstanding Advisor Award, *June 2025* (Title: “Research on Price Prediction of CSI 300 Index Based on K-Means and LSTM Models”, Student: Jinmei Huang).
- **Nanning University Outstanding Graduation Thesis:** Outstanding Advisor Award, *June 2024* (Title: “Research on the Measurement and Current Situation of Technology Finance Efficiency in Guangxi”, Student: Yinyin Liao).
- **ICBC Cup National College Students Financial Technology Innovation Competition:** Outstanding Instructor Award, *December 2022&2023* (Highly recognized competition in China).
- **Nanning University Teaching Skills Competition:** Third Prize, *July 2022.*
- **National Undergraduate Mathematical Modeling Competition:** Second Prize of Guangxi Region, *July 2019.*
- **American Mathematical Contest in Modeling:** "S" Prize, *January 2017.*

SKILLS & PROFESSIONAL CERTIFICATE

- **Languages:** Mandarin (Native), English (Fluent, GRE 321).
- **Developing Skills:** C, Python, Matlab, SQL, R, SPSS, Stata, ArcGIS, LaTeX, Git.
- **Frameworks/Technologies:** Scrapy, Pandas, Selenium, Request.