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*

GPA : 88 / 100

Core courses:

- *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*

GPA : 83 / 100

Core courses:

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

PUBLICCATIONS

- 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 4th IEEE International Conference on Cybernetics (Cybconf), Beijing, China.

RESEARCH FUNDINGS

- **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*.

- **Co-Investigator. *Research and Practice on the Integration of Data Literacy Improvement and Professional Education in Digital Economy under the New Liberal Arts Background.*** Supported by the Research Foundation for Educational and Teaching Reform of Bureau of Education of Guangxi Province, China (Grant No. 2023-XJJG-16), *January 2023 - December 2024*.

- **Co-Investigator. *Research on the Identification, Measurement, and Early Warning Mechanism of Systemic Financial Risks in Guangxi Based on Machine Learning.*** Supported by the Research Foundation for Youth and Middle-Aged Improvement of Bureau of Science and Technology of Guangxi Province, China (Grant No. 2023-KY-157), *December 2022 - December 2024*.

- **Co-Investigator. *Guohai Liangshi Futures Co., Ltd. Off-campus Practice Teaching Base.*** Supported by Nanning University (Grant No. 2022-XWJD-05), *December 2022 - December 2024*.

- **Co-Investigator. *Cloud-Edge-End Intelligent Computing Management and Monitoring System Software.*** Supported by Guangxi Wantong Law Firm (Grant No. 2022-HX-144), *December 2022 - December 2023*.

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.
- Utilized 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.

ACADEMIC ACTIVITIES

Workshop on HUAWEI CLOUD Developer Certification *March 2024 - May 2024*
- Completed comprehensive training on cloud development and services offered by Huawei Cloud.
- Participated in hands-on experiments including image recognition API service invocation, comprehensive application development for invoice verification, etc.
- Acquired HUAWEI CLOUD Developer Certification.

Workshop on Big Data and Artificial Intelligence for University Faculty of China (6th Session) *November 2022 - December 2022*
- Completed advanced training in big data analysis, big data technology application, machine learning engineering, and Python application engineering.
- Earned certifications: Advanced Big Data Analyst, Advanced Big Data Technology Application, Advanced Machine Learning Engineer, Advanced Python Application Engineer.

Workshop on Frontier Research Methods in Finance for Young Scholars *October 2022 - November 2022*
- Participated in training on advanced topics such as the difference-in-differences method, corporate finance preface, event study methodology in finance, machine learning methods, and optimal portfolio strategy research.
- Acquired knowledge in contemporary financial theories and research techniques.

PROFESSIONAL EXPERIENCE

Nanning University, School of Digital Economy **Nanning, China**
Lecturer of Fintech *September 2022 - current*
- **Core Course Instruction:** Delivered lectures in Python Programming, Python Data Mining Experiments, Financial Big Data Technologies and Applications, and Econometrics, focusing on integrating advanced theoretical principles with practical applications, tailored for undergraduate and postgraduate students.
- **Curriculum Development:** Consistently enhanced course materials to encompass Python programming and state-of-the-art advancements in financial technology, underscoring their pertinence to the forefront of the digital economy.
- **Interactive Learning Enhancement:** Leveraged digital tools for dynamic learning, enhancing student comprehension of complex financial concepts and fostering proficiency in Python and fintech advancements.
- **Student Mentorship:** Offered holistic academic and career guidance, empowering students to navigate their academic journeys and transition seamlessly into finance professionals.
- **Academic Guidance:** Led academic guidance for graduating students in Economics and Finance, mentoring them on academic paper writing and thesis defense preparation.
- **Research Participation:** Initiated and completed numerous projects as a member of the Digital Economy Research Institute. Currently, successfully proposed and advanced nearly 8 projects, with 5 completed to date.

Shanxi Land Institute of Natural Resources and Green Development <div align="right">**Beijing, China**</div>
Staff of Technology R&D <div align="right">*June 2021 - July 2022*</div>

- **Project Leadership:** Successfully led projects including the "Study on the Comprehensive Land Improvement Project in Huangtong Town, Lingao County, Hainan Province" and the "Study on the Construction of a Town of Incense in Huangtong Town, Lingao County," resulting in a 3 billion yuan investment.
- **Policy Development:** Spearheaded the successful development of 3 region-wide integrated land policy projects in Xinjiang, Guangxi, and Yunnan, resulting in an estimated 10% increase in land utilization efficiency, demonstrating exceptional strategic planning and collaboration skills.
- **Collaborative Initiatives:** Collaborated with the Chinese Code Institute of the National Land Science Center at the University of Chinese Academy of Sciences on computer education training. Also contributed to the Computer Education Cloud South Poverty Alleviation Project in partnership with the International Peace Exchange Foundation.
- **Publication Contribution:** Authored the module on fundamental information science principles in the "Natural Resources Lecture Series," published by China Earth Publishing House.

LEADERSHIP

School of Economics and Management Students' Union <div align="right">**November 2019-November 2020**</div>
Vice Minister <div align="right">*University of Chinese Academy of Sciences*</div>

- **Event Coordination:** Collaborated with faculty to organize college events, enhancing student engagement and community cohesion.
- **Community Outreach:** Initiated and led charitable visits to nursing homes, fostering a sense of social responsibility among sxtudents.
- **Support Services:** Provided crucial psychological counseling services during the COVID-19 outbreak, addressing students' mental health needs.

Mathematical Modelling Association of Guangxi University <div align="right">**June 2017-June 2018**</div>
Vice President <div align="right">*Guangxi University*</div>

- **Competition Organization:** Orchestrated multiple mathematical modeling competitions, promoting critical thinking and problem-solving skills among participants.
- **Training Delivery:** Conducted software and mathematical modeling training sessions, enhancing participants' technical proficiency and analytical abilities.

HONORS & AWARDS

- **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, 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, SQL, R, SPSS, Stata, ArcGIS, Latex, Git

- **Frameworks/Technologies:** Scrapy, Pandas, OpenCV, Selenium, Request.

RESEARCH INTERESTS

- **Investigating the Transition to a Low Carbon Economy:** Examine the economic impacts of shifting to a low carbon economy, focusing on policies and technologies that reduce carbon emissions and promote sustainable growth in urban and rural areas.

- **Utilizing Computational Social Science Methods:** Model social behaviors and economic interactions using computational methods, emphasizing sustainability and the adoption of green technologies.

- **Assessing Environmental and Natural Resource Economics:** Evaluate economic factors influencing the use and conservation of natural resources, assessing the impact of environmental policies on economic outcomes and sustainability efforts.

- **Applying Data Science to Environmental Economics:** Analyze large datasets to identify trends and inform policy decisions in environmental and natural resource economics for sustainable development.