

Lianbiao Cui



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Employing Organization: Professor, School of Statistics and Applied Mathematics, Anhui University of Finance and Economics

Resume

Lianbiao Cui holds bachelor's, master's, and doctoral degrees from the University of Science and Technology of China. He is a jointly trained doctoral candidate at the University of Science and Technology of China and the Energy and Environmental Policy Research Center of the Chinese Academy of Sciences, as well as a visiting scholar at Tsinghua University. Currently, he serves as Professor and Deputy Dean of the School of Statistics and Applied Mathematics at Anhui University of Finance and Economics, Deputy Director of the Anhui Provincial Key Laboratory of Low-Carbon Development and Carbon Finance in Philosophy and Social Sciences, Deputy Director of the Management Committee of the Anhui Provincial Association of Young Scholars in Social Sciences, member of the university's Academic Committee, and doctoral supervisor. He has been selected as a Young Top Talent under the National "Ten Thousand Talents Program," an Academic and Technological Leader of Anhui Province, a Leading Talent in the "Jianghuai Cultural Masters Cultivation Project," and a Pioneer of the New Era Youth in Anhui Province. He has received funding from the Anhui Provincial Outstanding Young Scientists Fund and the Excellent Young Scientists Fund, and is recognized as an Anhui Provincial Distinguished Teaching Faculty and Outstanding Young Graduate Supervisor. He has been repeatedly listed among Elsevier's China Highly Cited Researchers and the World's Top 2% Scientists. His research focuses on modeling and applied studies of complex systems in resources, economics, and environment, with significant contributions to interdisciplinary integration across statistics, management, economics, environmental science, and computer science. He is the lead developer of the global multi-regional quarterly dynamic CGE model. He has successively led two general projects and one youth project under the National Natural Science Foundation of China (both awarded "Outstanding" performance evaluations upon completion), two sub-projects of major projects under the National Social Science Foundation, one sub-project of a key project under the National Natural Science Foundation, as well as over ten provincial/ministerial-level research projects. He has published more than 80 papers in domestic and international journals such as Nature Communications, iScience, World Development, China Economic Review, and Systems Engineering Theory and Practice, including 13 ESI Highly Cited Papers and 6 ESI Hot Papers. His research has been cited over 4,300 times in academic journals including Nature Communications, PNAS, and GEC, with a single paper receiving up to 441 citations; additionally, it has been cited 51 times by international organizations such as the

United Nations, IPCC, and World Bank, demonstrating significant academic impact. Over the past five years, he has received 11 provincial/ministerial-level awards and 15 municipal/departamental-level awards, including two first prizes and one third prize from the Anhui Provincial Social Science Award, two second prizes and one third prize from the Anhui Provincial Natural Science Award, one third prize from the Ministry of Education's Outstanding Research Achievement Award for Higher Education Institutions (Humanities and Social Sciences), as well as four awards—including special prizes, first prizes, and second prizes—from the Anhui Provincial Teaching Achievement Awards. Seven policy advisory reports received approvals from leaders at the provincial or ministerial level and above; among them, one report was approved by multiple central government officials, and two were approved by the provincial Party secretary.

Educational background

September 2010 – July 2014

Research Center for Energy and Environmental Policies, Institute of Strategic Planning, Chinese Academy of Sciences

- The Chinese Academy of Sciences and China University of Science and Technology jointly cultivate doctoral students.
- Research Areas: Energy Economics, CGE Models, International Greenhouse Gas Reduction Mechanisms, Global Green Climate Fund

September 2009 – October 2010

School of Management, University of Science and Technology China

- Recommended for admission to the Graduate Program in Management Science and Engineering at our university without entrance exams.
- Major Courses: Game Theory, Advanced Macroeconomics, Advanced Microeconomics, Econometrics
- Funded by the North American actuary from AIA Insurance Company, USA.

September 2005 – July 2009

Department of Statistics, University of Science and Technology of China

- Obtained a Bachelor of Statistics degree
- Main Courses: Probability Theory, Stochastic Processes, Multivariate Statistical Analysis

Representative Paper

- Yuanxiang Zhou, Huayan Liu, Xinyu Liu, Yuankun Luo, Lianbiao Cui (corresponding author). Digital growth and energy burden inequality: challenges in China's low-carbon transition. *Humanities & Social Sciences Communications*, 2026, 13:943.
- Daoming Dai, Lingyu Huang, Lianbiao Cui (Corresponding Author). Consumer vs Producer Subsidies for Renewable Energy: The Role of Perception Efficiency and Policy Portfolio in a Power Supply Chain. *Energy Strategy Reviews*, 2026, 102086.
- Lianbiao Cui (corresponding author), Guofeng Song, Mei Duan. Municipal carbon allocation within China's provincial budget system: integrating equity, efficiency, and regional preferences. *Mitigation and Adaptation Strategies for Global Change*, 2026, 31(1):11.
- Xiaohui Yang, Lianbiao Cui (corresponding author), Xiuyue Yuan, Qianjin Li. How digital technology spillovers leverage carbon transfers across multiple sectors. *iScience*, 2025, 28, 114245.
- Lianbiao Cui, Guofeng Song, Xinghua Wang. International Economic Impact of the US Xinjiang Cotton Trade Restrictions: An Assessment Based on Global Multiregional Dynamic

CGE Model. *Managerial and Decision Economics*, 2026, 47:202–222.

- Huiting Shi, Jiani Heng, Hongbo Duan, Huajiao Li, Weiqiang Chen, Peng Wang, Lianbiao Cui, Shouyang Wang. Critical mineral constraints pressure energy transition and trade toward the Paris Agreement climate goals. *Nature Communications*, 2025, 16, 4496.
- Mingtao Zhao, Xuebao Fu, Jun Sun, ZhenZhen Wan, HongJiu Wang, Suwan Lu, Lianbiao Cui (Corresponding author) et al.. The optimal strategy of artificial intelligence in low-carbon energy transformation: A perspective from enterprise green technology innovation efficiency. *Energy*, 2025, 319, 135035.
- Lianbiao Cui (corresponding author), Yutao Jiang. Quantitative analysis of the U.S. chip embargo and China's export controls on GaGe and graphite. *Computers & Industrial Engineering*, 2025, 200(1):110860.
- Sanchuan Wu, Wanwu Shu, Lianbiao Cui (Corresponding Author). Green Finance Policy and Green Economic Transformation. *International Review of Financial Analysis*, 2024, 96, 103785.
- Mingtao Zhao, Xuebao Fu, Juntao Du, Lianbiao Cui (communicating author). Optimal environmental investment strategies for enterprise green technology innovation: an empirical study based on multiple drive models. *Journal of Environmental Management*, 2024, 370(1):122624.
- Lianbiao Cui, Jiaxue Wang, Xueli Chen, Malin Song. Regional policy options for carbon peaking in the Yangtze River Delta under uncertainty. *Journal of Environmental Management*, 2024, 364, 121445.
- Shuhong Wang, Weiyao Li, Ying Zhang, Malin Song, Xueli Chen, Lianbiao Cui (Corresponding Author). The impact of a natural resource protection policy on economic development: Based on a policy evaluation of China's coal resource tax reform. *Energy Policy*, 2024, 192, 114213.
- PM2.5 Weiliang Tao, Malin Song, Shimei Weng, Xueli Chen, Lianbiao Cui (Corresponding Author). Assessing the impact of environmental regulations on ecological risk induced by pollution: Evidence from China. *Journal of Cleaner Production*, 2024, 451, 142029. (SCI)
- Mingtao Zhao, Suwan Lu, Lianbiao Cui (Corresponding Author). Measurement, Identification, and Spillover Effects of Systemic Risk in the International Clean Energy Market. *Energy Strategy Reviews*, 2024, 52, 101355. (SCI)
- Mingtao Zhao, Suwan Lu, Lianbiao Cui (Corresponding Author). Exploring the impacts of major events on the systemic risk of the international energy market. *Petroleum Science*, 2024, 21:1444–1457. (SCI)
- Ying Fan, Xilong Yan, Lianbiao Cui (corresponding author), Luyang Zhang, Jiaxue Wang. Carbon pricing, carbon equity, and the RCEP framework. *China Economic Review*, 2023, 80:102017. (SSCI)
- Lianbiao Cui, Suyun Yue, Xuan-Hoa Nghiem, Mei Duan. Exploring the risks and economic vulnerabilities of global energy supply chain disruptions in the context of the Russia-Ukraine war. *Resources Policy*, 2023; 81:103373. (SSCI Category 1; ESI paper)
- Aolin Lai, Qunwei Wang, Lianbiao Cui (Corresponding Author). Can Market Segmentation Lead to a Green Paradox? Evidence from China. *Energy*, 2022, 254:124390. (SCI)
- Huanming Zhang, Ruiqi Ma, Lianbiao Cui (corresponding author), Gang Tian, Zhaojun Ma. Exploring the Impacts of Energy and Environmental Constraints on China's Urbanization Process. *Computers & Industrial Engineering*, 2022, 169:108170. (SCI)
- Xin Zhao, Muhammad Ramzan, Tuhin Sengupta, Gagan Deep Sharma, Umer Shahzad, Lianbiao Cui (Corresponding). Impacts of bilateral trade on energy affordability and accessibility across Europe: Does economic globalization reduce energy poverty? *Energy & Buildings*, 2022, 262(1):112023. (SCI/ESI paper, Hot Paper, Best Paper Award)

- Umer Shahzad, Diogo Ferraz, Huanhuu Nguyen, Lianbiao Cui (Corresponding). Investigating the Spillovers and Connectedness between Financial Globalization, High-Tech Industries, and Environmental Footprints: Fresh Evidence in the Context of China. *Technological Forecasting & Social Change*, 2022, 174: 121205. (SSCI/ ESI Highly Cited, Hot Paper)
- Lianbiao Cui, Shimei Weng, Dervis Kirikkaleli, Muhammad Adnan Bashir, Husam Rjoub, Yuanxiang Zhou. Exploring the Role of Natural Resources, Natural Gas and Oil Production for Economic Growth of China. *Resources Policy*, 2021, 74: 102429.
- Jiajia Guo, Yong Zhou, Shahid Ali, Umer Shahzad, Lianbiao Cui (Corresponding). Exploring the role of green innovation and energy investment in environmental quality: An empirical assessment based on provincial data from China. *Journal of Environmental Management*, 2021, 292: 112–779. (SCI/ESI Highly Cited and Hot Paper).
- Lianfen Wang, Lianbiao Cui (corresponding), Shimei Weng, Chuanming Liu. Promoting industrial structure advancement through an emission trading scheme: Lessons from China's pilot practice. *Computers & Industrial Engineering*, 2021, 157: 107339. (SCI)
- Mahmood Ahmad, Ping Jiang, Muntasir Murshed, Khurram Shehzad, Rabia Akram, Lianbiao Cui (Corresponding), Zeeshan Khan. Modeling the dynamic linkages between eco-innovation, urbanization, economic growth, and ecological footprints for G7 countries: Does financial globalization matter? *Sustainable Cities and Society*, 2021, 70(1): 102881. (SCI/ESI cited paper, Hot Paper)
- Aolin Lai, Zhihui Yang, Lianbiao Cui (Corresponding). The impact of market segmentation on industrial transformation: Evidence for environmental protection in China. *Journal of Cleaner Production*, 2021, 297: 126607. (SCI)
- Lianbiao Cui, Hongbo Duan, Jian-Lei, Malin Song. Ecological compensation in air pollution governance: China's efforts, challenges, and potential solutions. *International Review of Financial Analysis*, 2021, 74: 101701. (SSCI)
- Xiaoxiao Zhou, Malin Song, Lianbiao Cui (corresponding authors). Driving Force for China's Economic Development under Industry 4.0 and Circular Economy: Technological Innovation or Structural Change? *Journal of Cleaner Production*, 2020, 271: 122680. (SCI)
- Lianbiao Cui, Yi Sun, Malin Song, Lei Zhu. Co-financing in the Green Climate Fund: Lessons from the Global Environment Facility. *Climate Policy*, 2020, 20(1): 95-108. (SSCI)
- Lianbiao Cui, Rongjing Li, Malin Song, Lei Zhu. Can China achieve its 2030 energy development targets by fulfilling carbon intensity reduction commitments? *Energy Economics*, 2019, 83: 61-73. (SSCI)
- Lianbiao Cui, Malin Song. Economic Evaluation of the Belt and Road Initiative from an Unimpeded Trade Perspective. *International Journal of Logistics Research and Applications*, 2019, 22(1): 25–46. (SSCI/ESI paper)
- Lianbiao Cui, Malin Song, Lei Zhu. Economic evaluation of the trilateral FTA among China, Japan, and South Korea with big data analytics. *Computers & Industrial Engineering*, 2019, 128: 1040-1051. (SCI)
- Lianbiao Cui, Yuran Huang. Exploring Schemes for Green Climate Fund Financing: International Lessons. *World Development*, 2018, 101(1): 173–187. (SSCI/ESI Highly Cited Paper) [This paper was selected as reading material for the university's autumn course “Global Environmental Change and Human Response” at Victoria University.]
- Lianbiao Cui, Ying Fan, Lei Zhu, Qinghua Bi. How will the emissions trading scheme save costs for achieving China's 2020 carbon intensity reduction target? *Applied Energy*, 2014, 136(12): 1043–1052. (SCI Zone 1; ESI Highly Cited Paper)
- Lianbiao Cui, Pan Peng, Lei Zhu. Embodied Energy, Export Policy Adjustment and China's Sustainable Development: A Multi-Regional Input-Output Analysis. *Energy*, 2015, 82(4): 457–

467. (SCI Zone 1) (ESI Highly Cited Paper)

- Malin Song, Lianbiao Cui (Corresponding author). Economic Evaluation of China's Electricity Price Marketization Based on a Dynamic Computational General Equilibrium Model. *Computers & Industrial Engineering*, 2016, 101:614–628. (SCI Zone II)
- XiaoWen Chen, Xiaodan Guo, Ying Fan, Xing Yu, Cuibiao Cui. Effect Evaluation and Synergistic Optimization of Carbon Markets and Environmental Taxes from a Multi-generational Perspective. *Systems Engineering Theory and Practice*, 2026. (CSSCI) Accepted for publication.
- XiaoWen Chen, Xiao Dan Guo, Ying Fan, Xing Yu, Lianbiao Cui. Macro-level impacts and response strategies assessment of the carbon border adjustment mechanism: An open economy E-DSGE model. *Journal of Management Science*, 2026. (CSSCI) accepted for publication
- Lianbiao Cui, Yutao Jiang, Hongbo Duan. The Global Economic Impact of Sino-US Technology Competition: Chip Embargoes and Gallium/Germanium Export Controls. *System Engineering Theory and Practice*, 2026, 46 (5):1807–1830. (CSSCI)
- Lianbiao Cui, Guofeng Song, Lei Zhu. A heterogeneous study on the impact of population structure changes in the Yangtze River Delta urban agglomeration on carbon emissions. *China Population • Resources and Environment*, 2025, 35(7):68–81. (CSSCI)
- Lianbiao Cui, Jiaxue Wang. The impact of national-level urban agglomeration policies on pollution and carbon reduction in China. *Contemporary Finance*, 2025(8):3–16. (CSSCI, first article on the journal cover)
- Lianbiao Cui, Xiao Li, Hongbo Duan. Assessment of Synergistic Effects of Pollution Reduction and Carbon Mitigation in the Yangtze River Delta Region. *China Population • Resources and Environment*, 2024, 34(6):21–32. (CSSCI)
- Lianbiao Cui, Shiming Weng, Jianlei Mo. Assessment of disruption risks, substitutability and economic impacts of China's chip import supply chain. *International Trade Issues*, 2023, 483(3):124–140. (CSSCI)
- Lianbiao Cui, Jiaxue Wang. Multi-scenario analysis of industrial carbon peaking in Anhui Province. *Journal of Anhui University (Philosophy and Social Sciences Edition)*, 2023, (4):110–123. (CSSCI)
- Lianbiao Cui, Shimai Weng, Jianlei Mo, Malin Song, Yan Xia. International Embargo Alliance, Supply Chain Disruption Risks, and China's Macroeconomic Vulnerability: A Case Study of Chips. *Financial Research*, 2022, 48(12):92–105+165. (CSSCI) (Renmin University Reprinted Materials “World Economy”) Reprinted in full from the journal “Guide”.
- Lianbiao Cui, Shiming Weng, Malin Song. Research on China's Agricultural Product Import Diversification Strategies under Trade Conflicts – From the Perspective of Belt and Road Countries. *Scientific Decision-making*, 2021, (1):31–53. (CSSCI)
- Lianbiao Cui, Lei Zhu, Malin Song, Haitao Zheng. Assessment of the International Economic Impact of Sino-US Trade Frictions. *Caijing Yanjiu*, 2018, 44(12):4–17. (CSSCI)
- Lianbiao Cui, Xuewen Hong, Malin Song. Can the Belt and Road Initiative mitigate the negative impacts of the TPP on China? *Financial Research*, 2018, 44(8):4–17. (CSSCI)
- Lianbiao Cui, Malin Song, Lei Zhu, Ying Fan. Research on the Financing Responsibility Sharing Mechanism of the Global Green Climate Fund: A Perspective That Balances Responsibility and Capacity. *Caijing Yanjiu*, 2015, 41(3):65–76. (CSSCI)
- Lianbiao Cui, Jianyu Han, Jiasen Sun. Research on Trade-Implied Energy in the Context of Globalization. *International Trade Issues*, 2014, (5):113–123. (CSSCI)
- Lianbiao Cui, Ying Fan, Lei Zhu. Allocation research of the Green Climate Fund based on carbon reduction contribution principles. *China Population • Resources and Environment*, 2014, (1):31–37. (CSSCI)

- Lianbiao Cui , Ying Fan , Lei Zhu , Qinghua Bi , Yi Zhang . The cost-saving effect of carbon emission trading on achieving China's emission reduction targets during the 12th Five-Year Plan period. *China Management Science*, 2013, 21(1): 37–46. (CSSCI)
- Lianbiao Cui , Lei Zhu , Ying Fan . Feasibility analysis of China's proactive emission reduction strategies under carbon tariff regime. *Management Science*, 2013, 26(1): 101–111. (CSSCI)
- Lianbiao Cui , Xin Sun , Malin Song . Assessment of the Economic Impact of China's New Silk Road Foreign Strategy from the Perspective of Trade Liberalization. *Management Science*, 2016, 29(1): 147–160. (CSSCI)
- Lianbiao Cui , Hongbo Duan , Jinhua Xu . The impact of transaction costs on the cost-effectiveness of China's carbon market: A simulation analysis based on domestic carbon trading pilots. *Management Review*, 2017, 29(6): 23–31. (CSSCI)

Contributed to the compilation of books

- Malin Song , Lianbiao Cui . *China Environmental Development Research Report 2015: Focusing on Urban Ecological Transformation*. Beijing: Science Press, 2015.
- Lianbiao Cui . *Design and Impact Assessment of the Global Green Climate Fund Program*. Beijing: Economic Science Press, April 2017.
- Lianbiao Cui , Malin Song . *China Environmental Development Research Report 2020: Focusing on Air Pollution Prevention and Control*. Beijing: Economic Science Press, 2020.
- Malin Song , Yejun Yang , Lianbiao Cui . *Comprehensive Laboratory Course for Statistics*. Beijing: Economic Science Press, 2022.
- Lianbiao Cui , Malin Song . *Computable General Equilibrium Theory and Practice*. Beijing: Economic Science Press, 2022.
- Lianbiao Cui , Malin Song , Yanpeng Wang . *Policy Analysis Methods: Modeling Mechanisms, Model Extensions, and Application Research of CGE Models*. Beijing: Economic Management Press, 2024.
- Lianbiao Cui , Yanpeng Wang , Yuanxiang Zhou , Zhongming Ding . *Theoretical Foundations and Practical Explorations for Achieving Synergistic Pollution Reduction and Carbon Mitigation in China*. Beijing: Economic Management Press, 2025.
- Lianbiao Cui , Yanpeng Wang , Yuanxiang Zhou . *Research on Practical Pathways to Carbon Peak and Carbon Neutrality: A Case Study of Anhui Province*. Beijing: Economic Management Press, 2026.

Involved in project

- Led the National Natural Science Foundation of China project “Modeling of Complex Systems and Policy Optimization for Synergistic Pollution Reduction and Carbon Mitigation in China from an Uncertainty Perspective,” as well as a General Program Project of the National Natural Science Foundation of China (2024.1–2027.12) (No.: 72374001).
- Led a sub-project under the National Social Science Fund Major Project “Research on Financial Support for Achieving Carbon Peak and Carbon Neutrality Goals,” National Social Science Fund Major Project (2022.04–2026.03) (No.: 22ZDA112; completed).
- Presided over the National Natural Science Foundation of China project “Research on Synergistic Control of China's Greenhouse Gases and Atmospheric Pollutants under Uncertain Conditions,” as well as a general project of the National Natural Science Foundation of China (2020.1–2023.12) (Project No.: 71974001, completed with an “Excellent” rating).
- Led a sub-project under the National Natural Science Foundation of China titled “Research on Coordination Mechanisms and Strategies between Natural Resource Assets, Economic Growth, and Economic Security,” as well as a Key Project of the National Natural Science

Foundation of China (2020.1–2024.12) (No.: 71934001).

- Led the National Natural Science Foundation project “Research on the Financing Responsibility Allocation Mechanism of the Green Climate Fund,” and the National Natural Science Foundation Youth Science Fund (2016.1–2018.12) (No.: 71503001, completed with an “Outstanding” rating).
- Presided over the “Research on the Synergistic Potential and Policy Optimization of Pollution Reduction and Carbon Mitigation in China” under the Young Top-Talent Fund of the “Ten Thousand Talents Program,” as well as the support funds for young top talents under the 10th National Special Support Program for High-Level Talents (No.:).
- Presided over the Anhui Provincial Outstanding Youth Project “Research on the Effects of Export Controls on Key Raw Materials in China and Mechanisms for Enhancing Economic Resilience under Trade Conflicts,” Anhui Provincial Youth Project (Category A) (formerly the Outstanding Youth Project) (September 2025 – September 2028) (Project Number: 2508085J025).
- Headed the “Anhui Provincial Collaborative Innovation Team for Pollution Reduction and Carbon Mitigation” and the Anhui Provincial Philosophy and Social Sciences Innovation Project Team (June 2024 – June 2027) (Number:).
- Led the Anhui Provincial University Scientific Research Project “Modeling and Application Research of Complex Systems for Synergistic Pollution Reduction and Carbon Mitigation”, as well as the Anhui Provincial Outstanding Young Scientists Fund in Natural Sciences (2023.1–2025.06) (No.: 2022AH020048, completed).
- Led the Anhui Provincial Propaganda Department project “Research on Synergistic Efficacy of Carbon Reduction and Pollution Control in China under the 'Dual Carbon' Vision,” as well as the Anhui Jianghuai Cultural Leading Talent Support Project (January 2023 – December 2025) .
- Led the Anhui Provincial Philosophy and Social Sciences Project “Research on Practical Pathways for Anhui's 'Dual Carbon' Strategy,” a major project under the Anhui Provincial Philosophy and Social Sciences Planning Program (March 2023–March 2025) (Project No.: AHSKZD2022D01), one of only two such projects in the province.
- Principal investigator of the Anhui Provincial Natural Science Foundation project “Quantitative Evaluation Methods and Application Research on Economic Impacts of Major Infectious Epidemics,” and recipient of the Anhui Provincial Natural Science Foundation's Outstanding Young Investigator Fund (January 2022 – December 2023) (No.: 2108085Y24; completed, with a performance evaluation rating of A Excellent).
- Presided over the Anhui Provincial University Outstanding Top-Talent Project “Research on the Co-effect Analysis of Greenhouse Gases and Atmospheric Pollutants and the Optimization Policy System” and the Key Project of Anhui Provincial University Outstanding Top-Talent Program (September 2020 – September 2023) (Project No.: gxyqZD2020087, completed).
- Led the Anhui Provincial Higher Education Natural Science Project “Construction and Application of a Dynamic CGE Model for Economic Impact Assessment of Environmental Protection Tax” (Key Natural Science Project of Anhui Province Higher Education Institutions, July 2019–January 2021; Project No.: KJ2019A0649), which has been successfully completed.
- Led the Anhui Provincial Social Science Innovation Development Research Project “Research on Anhui's Steady Progress in Implementing the 'Dual Carbon' Strategy,” a major project under the Anhui Provincial Social Science Innovation Development Research Program (June 2023–June 2025) (Project No.: 2022ZD006).
- Presided over the Anhui Provincial Social Science Innovation Development Research

Project “Strategic Interaction between TPP and China's' Belt and Road': A Quantitative Assessment Based on a Global Multi-Regional CGE Model,” a Major Project of the Anhui Provincial Social Science Innovation Development Research Program (June 2016 – October 2018) (Project Number: 2016ZD010).

- Led the Anhui Provincial Social Science Innovation Development Research Project titled “Research on Carbon Emission Rights Allocation at the Municipal Level in Anhui Province under the 'Dual Carbon' Vision,” part of the Anhui Provincial Social Science Innovation Development Research Key Project (May 2026 – October 2028) (Project No.: 2025CX081).
- Presided over the key humanities and social sciences project of Anhui Province titled “Assessment of the Economic Impact of China's' Belt and Road' Foreign Strategy Based on a Multi-regional CGE Model,” which was also recognized as a key project under the Anhui Provincial Humanities and Social Sciences Planning (June 2015 – December 2016) (Project No.: SK2015A214; completed).
- Led the Anhui Province Input-Output Survey Research Project under the Fifth National Economic Census, titled “Construction of Global Multi-Regional Input-Output Tables for Rare Earths and Flow Tracking Study,” as part of the Anhui Provincial Bureau of Statistics' research program (December 2025 – November 2026) (Project No.:).
- Presided over the commissioned project “Chip Market Scenario Construction and Evaluation Simulation Based on a Dynamic CGE Model” (July 2023–July 2024) by the Automation Research Institute of the Chinese Academy of Sciences .

Community service

- The research report titled “Impact Assessment of Sino-US Trade Frictions under the Background of Trade Transfer Effects” received approval from several senior Party and state leaders (ranked third in priority, responsible for model design, data analysis, and report drafting) in May 2018.
- The research report titled “Identifying Four Major Challenges, Focusing on Five Key Strategies, and Scientifically Planning Our Province's' Dual Carbon 'Goals” was published in *Xuejie Xingwan* by the Anhui Provincial Social Sciences Federation and received approval from senior provincial leaders (approved by Zheng Shanjie, Secretary of the Anhui Provincial Party Committee and Chairman of the Provincial People's Congress Standing Committee; ranked first). Published in February 2022.
- The research report titled “Accelerating the Development of Carbon Financial Services to Address Funding Challenges for Our Province's Dual Carbon Transition” was published in *Xuejie Xingwan* by the Anhui Provincial Federation of Social Sciences and received approval from senior provincial leaders (approved by Zheng Shanjie, Secretary of the Anhui Provincial Party Committee and Chairman of the Provincial People's Congress Standing Committee; ranked first). It was adopted by the Anhui Provincial Development and Reform Commission in April 2024.
- The research report titled “Accelerating the Development of a Carbon Quota Allocation System to Establish a New Low-Carbon Competitive Advantage for Our Province” was published in the Research Bulletin and received approval from Anhui provincial leaders (approved by Yu Aihua, alternate member of the 20th Central Committee, Deputy Secretary of the Party Leadership Group and Vice Chairman of the Anhui Provincial Committee of the Chinese People's Political Consultative Conference; ranked first). Published in April 2026.
- The research report titled “Study on Establishing an Ecological Compensation Mechanism for Ambient Air Quality in Hefei” received approval from the city's top leadership (approved by Song Guoquan, then member of the Standing Committee of the Anhui Provincial Party Committee and Secretary of the Hefei Municipal Party Committee; ranked first) in September 2018.

- The research report titled “Study on the Spatial and Temporal Distribution Characteristics and Evolution Patterns of Air Pollutants in Bengbu City from a Big Data Perspective” received approval from senior officials of Bengbu City (approver: Ni Jiansheng, Director of the Standing Committee of the Bengbu Municipal People's Congress; ranked first) in May 2018.
- The research report titled “Recommendations for Promoting Energy and Resource Conservation and Intensive Use” received approval from senior officials of Fujian Province (approved by Xu Weize, Vice Chairman of the Fujian Provincial Committee of the Chinese People's Political Consultative Conference; ranked third), in March 2021.
- The research report “Countermeasures and Recommendations for Promoting High-Quality Population Development in Our Province” was published in Wan Zheng Can Yue (Anhui Government Reference) by the Anhui Provincial Party School and received positive endorsement from Wang Cuifeng, Deputy Director of the Standing Committee of the Anhui Provincial People's Congress, Chairman of the Provincial Federation of Industry and Commerce, and President of the Provincial General Chamber of Commerce (ranked second), in October 2024. It also won the Third Prize in the 15th Provincial Outstanding Decision-Making Consultation Achievement Award for Party Schools (Administrative Colleges)

Honors Received

- Young Top-Tier Talents under the “Ten-Thousand Talents Program” initiated by the Central Organization Department in 2025
- Recipients of the Anhui Province Outstanding Youth Fund in 2025
- 2025 Anhui Province Youth Pioneers of the New Era
- 2024 Anhui Province Academic and Technical Leaders
- List of the world's top 2% scientists in 2023 (World's Top 2% Scientists)
- List of the world's top 2% scientists for 2024 (World's Top 2% Scientists)
- List of the world's top 2% scientists for 2025 (World's Top 2% Scientists)
- 2024 Elsevier China Highly Cited Scholars
- 2023 Elsevier China Highly Cited Scholars
- 2022 Elsevier China Highly Cited Scholars
- In 2022, the “Jianghuai Cultural Masters” program recognized leading talents in Anhui Province.
- Outstanding Young Postgraduate Supervisor in Anhui Province for 2022
- Reserve Candidates for Academic and Technical Leaders in Anhui Province, 2021
- Anhui Province's Outstanding Teaching Educator (Postgraduate Level) for 2025
- Special Allowance from the Bengbu Municipal Government for the Year 2021
- Second Prize of Anhui Provincial Natural Science Award 2025 (for the achievement “Theoretical Framework, Methods and Applications for Modeling Complex Systems of Resources–Environment–Economy,” ranked second)
- Third Prize, 9th National Outstanding Scientific Research Achievement Award for Higher Education Institutions (Humanities and Social Sciences) in 2024 (for the achievement “Research on the Natural Resources Management System,” ranked eighth).
- First Prize of Anhui Provincial Social Science Award 2019-2020 (Achievement: “China Environmental Economic Development Research Report 2020: Focusing on Air Pollution Prevention and Control”, ranked first)
- First Prize of Anhui Provincial Social Science Award (2019–2020) for the research achievement “Study on the Natural Resources Management System” (ranked eighth).
- Second Prize of the 2021 Anhui Provincial Natural Science Award (for the achievement “Decision Theory, Methods and Applications for Efficient and Sustainable Resource Utilization,” ranked second)

- Third Prize of the Anhui Provincial Social Science Award for the 2017–2018 period (for the research paper “A Study on Establishing an Ecological Compensation Mechanism for Ambient Air Quality in Hefei,” ranked first)
- Third Prize of the 2019 Anhui Provincial Natural Science Award (for the achievement “Theory, Methods and Applications of Environmental Efficiency Evaluation,” ranked second)
- First Prize of Anhui Province Teaching Achievement Award in 2022 (for the achievement “Research on Innovative Talent Cultivation Models and Practices for Professional Degree Graduate Students,” ranked fourth)
- Second Prize of Anhui Province Graduate Teaching Achievement Award 2025 (Project: “The Integrated Approach of 'Teaching-Learning-Practicing-Creating': Developing and Implementing a Model for Cultivating Data Mining Innovation Capabilities in Statistics Graduate Programs,” ranked second; reference number: 2025yjsjxcgjedj019)
- Special Prize of Anhui Provincial Teaching Achievement Award 2025 (Achievement: “Connecting, Integrating, and Linking: Innovation and Practice in Statistics Curriculum Teaching for Developing Data Thinking Skills,” ranked fifth)
- Second Prize of Anhui Province Graduate Teaching Achievement Award 2024 (for the achievement titled “Research on Cultivation Models and Practices of Academic Innovation Ability for Statistics Graduate Students in the Context of Big Data,” ranked first)
- The 2022 Outstanding Paper Award for “The Anhui Implementation of Xi Jinping's Ecological Civilization Thought” (with the work titled “The Anhui Implementation of Xi Jinping's Ecological Civilization Thought – Pilot Program for Comprehensive Energy Reform and Innovation,” ranked second).
- First Prize for Outstanding Achievements in Three Research Projects awarded by the Anhui Provincial Social Sciences Federation in 2019 (the achievement titled “Research on Diversification Strategies for China's Agricultural Product Imports under Trade Friction: From an Analytical Perspective of Belt and Road Countries,” ranked first).
- First Prize for Outstanding Achievement in Three Research Projects awarded by the Anhui Provincial Social Sciences Federation in 2019 (the project titled “Main Issues and Improvement Measures of the Air Quality Ecological Compensation Mechanism in Bengbu City,” ranked first).
- The Top Ten Green Finance Cases of the China Environmental Protection Federation in 2020 (with the achievement titled “Diversified Trial and Error Approaches and Policy Implications for Air Quality Ecological Compensation in China,” ranked first)
- First Prize of the Eighth Bengbu City Outstanding Social Science Achievement Award in 2020 (the award-winning work was “International Economic Impact Assessment of Sino-US Trade Frictions,” ranked first)
- Second Prize of the Ninth Bengbu City Outstanding Social Science Achievement Award in 2024 (the award-winning work titled “Identifying Four Major Challenges, Focusing on Five Key Approaches, and Scientifically Planning Our Province's' Dual Carbon' Goals,” ranked first)
- Second Prize for Outstanding Achievements in Three Research Projects awarded by the Anhui Provincial Social Sciences Federation in 2018 (the project titled “Research on Establishing an Ecological Compensation Mechanism for Air Quality at the Municipal Level in Anhui Province,” ranked first).
- First Prize for Outstanding Achievement at the 17th (2022) Annual Academic Conference of Anhui Provincial Social Science Society (the award-winning work being “Research on Driving Factors and Peak-Emission Pathways of Industrial Carbon Emissions in Anhui Province,” ranked first).
- Second Prize for Outstanding Achievements in Three Research Projects awarded by the

Anhui Provincial Social Sciences Federation in 2023 (the project titled “Analysis of Synergistic Effects and Pathways for Pollution and Carbon Reduction in the Yangtze River Delta Region,” ranked first).

- Second Prize for Outstanding Achievements in Three Research Projects awarded by the Anhui Provincial Social Sciences Federation in 2022 (the project titled “Dynamic Scenario Analysis of Industrial Carbon Peaking in Anhui Province under the Carbon Neutrality Vision,” ranked first).
- Second Prize for Outstanding Achievements in Three Research Projects awarded by the Anhui Provincial Social Sciences Federation in 2022 (the achievement titled “Anhui's Practice of the 'Healthy China' Strategy under the Dual Carbon Goals,” ranked second)
- First Prize for Outstanding Achievements in Three Research Projects awarded by the Anhui Provincial Social Sciences Federation in 2024 (the achievement titled “Technological Blockades and Counter-Blockades under Great Power Competition: The U.S. Chip Embargo vs. China's Gallium and Germanium Export Controls,” ranked first).
- First Prize for Outstanding Achievement in Three Research Projects awarded by the Anhui Provincial Social Sciences Federation in 2024 (the project titled “Artificial Intelligence Empowering High-Quality Development of Enterprises in Anhui Province,” ranked second).
- Second Prize for Outstanding Achievements in Three Research Projects awarded by the Anhui Provincial Social Sciences Federation in 2024 (the achievement titled “Countermeasures and Recommendations for Promoting High-Quality Population Development in Our Province,” ranked second).
- Best Paper Award at the 2024 International Conference on Climate and Energy Finance (ICEF 2024), awarded for the paper “Enhancing climate pledges with equitable efforts: A perspective of trade and competitiveness” (ranked third).
- Second Prize for Outstanding Achievement at the 19th (2024) Academic Annual Conference of Anhui Provincial Social Science Community (the work titled “Research on Carbon Peak and Carbon Neutrality Pathways in Anhui Province from an Uncertainty Perspective,” ranked first).
- Outstanding Reviewer for the journal **Financial Research** (2018,2021)
- The Annual Outstanding Paper of 2019 from the journal *Financial Research*
- Outstanding Paper of the 2024 China Management Science Annual Conference (the achievement titled “The Global Economic Impact of Sino-US Technology Competition: Chip Embargo vs. Germanium Export Controls,” ranked first)

Instruct students

- Yulei Zhang , “Research on the Spatial and Temporal Distribution Characteristics and Evolution Patterns of Air Pollutants in Bengbu City from a Big Data Perspective,” Third Prize at the 16th “Challenge Cup” Intra-university Competition for Extracurricular Academic and Scientific Works by College Students, Anhui University of Finance and Economics; Supervisor:
- Yayu Jiang , “Lightwear Technology – A Leading Player in China's Intelligent Apparel Industry”; recipient of the Special Prize and Best Innovation Award at the 10th National College Students' E-commerce Competition on “Innovation, Creativity, and Entrepreneurship” organized by Anhui University of Finance and Economics; outstanding mentor.
- Yayu Jiang et al., “Lightwear Technology – A Leading Player in China's Intelligent Apparel Industry”; First Prize in the 10th National College Students' E-commerce Competition on Innovation, Creativity and Entrepreneurship, Anhui Province; Outstanding Instructor.
- Xingyu Xu et al., “Intelligent Cleaning, Green Energy for Wealth Creation – A Multi-Purpose Modular Photovoltaic Cleaning Robot,” Special Prize winner of the 11th National

College Students' Energy Economics Academic Innovation Competition; Outstanding Supervising Teacher.

- Huiyu Wang et al., First Prize winner of the 2020 Anhui Provincial Market Research and Analysis Competition; Supervising Teacher
- Wenbo Li et al., Third Prize in the 2020 Anhui Provincial Market Research and Analysis Competition; Supervising Teacher
- Guided Shimai Weng to win the 2021 National Scholarship for Graduate Students.
- Guided Shimai Weng to become an Outstanding Graduate of Anhui Province in 2022.
- Guided Ranxu Yu to become an Outstanding Graduate of Anhui Province in 2023.
- Guided Jiaxue Wang to become one of the Outstanding Graduates of Anhui Province in 2024.
- Guided Xiao Li to become an Outstanding Graduate of Anhui Province in 2024.
- Guided Jiaxue Wang to win the 2023 National Scholarship for Graduate Students.
- Guided Xinyi Shen to receive the 2024 National Scholarship for Graduate Students.
- Guided Yutao Jiang to receive the 2025 National Scholarship for Graduate Students.
- Guidance provided to Ruoqiao Fan for winning the 2024 Outstanding Master's Thesis Award from Anhui University of Finance and Economics.
- Guided Jiaxue Wang to win the Outstanding Master's Thesis award at Anhui University of Finance and Economics in 2025.
- Guidance for Xiaohuo Li 's outstanding master's thesis submitted to Anhui University of Finance and Economics in 2025
- Xingyu Xu ,Yanyan Zhang ,Jiahui Li , and Yutao Jiang were awarded the title of Outstanding Graduates of Anhui University of Finance and Economics for the class of 2026.

News interview

- Behind the EU Carbon Tax: Game Theory, Accounting, and Climate Justice. Wall Street Journal, June 27,2022. [https:// wallstreetcn.com/articles/3663083](https://wallstreetcn.com/articles/3663083)
- Identify the key priorities and focal points of Anhui's new industrialization drive. Anhui Daily, 2023.10.17. https://szb.ahnews.com.cn/ahrb/layout/202310/17/node_06.html

Else

- Corresponding Review Expert for the National Natural Science Foundation of China (General Program and Young Scientists Program)
- Ministry of Education's Expert Panel for the evaluation of Changjiang Scholars
- Expert for the National Professional Degree Level Assessment conducted by the Ministry of Education (Applied Statistics)
- Served as an anonymous reviewer for international SSCI journals including iScience, Humanities and Social Sciences Communications, Climate Policy, World Development, Energy, Energy Policy, Transportation Research Part A: Policy and Practice, as well as domestic journals such as Journal of Management Science, System Engineering Theory and Practice, China Soft Science, Financial Research, International Trade Issues, Management Review, Journal of Shanghai University of Finance and Economics, International Economic and Trade Exploration, and Industrial Organization Review.
- Judging Experts for the Jiangxi Provincial Social Science Award
- Expert reviewer for the Guangdong Provincial Outstanding Young Scientists Foundation's evaluation program, and online reviewer for general research projects.
- Experts for the Anhui Provincial Outstanding Young Scientists Foundation Evaluation
- Deputy Secretary-General of the Low-Carbon Development Management Professional Committee of the China Research Society for Optimization Methods and Economic Mathematics (May 2025 – May 2030)

- Member of the 7th China Youth Science and Technology Workers Association (April 2025)
- Standing Director of the Anhui Provincial Economics Society
- Deputy Director of the Management Studies Committee of the Young Scholars Association of Anhui Province's Social Sciences Community
- Standing Director of the Young Statisticians Association, China Industrial Statistics Teaching and Research Society
- Member of the Low-Carbon Development Management Branch of the China Research Society for Optimization Methods and Economic Mathematics
- Council Member of the China Industrial Economics Society
- Member of the Board of the Youth Society of the Anhui Provincial Social Sciences Federation
- Member of the Climate Finance Research Branch, China Society for Optimal Control and Economic Mathematics Research
- Editorial Board Member of Journal of North China University of Water Resources and Electric Power (Social Sciences Edition)
- Journal of Guangdong University of Finance and Economics – Young Editorial Board Member (CSSCI Journal)
- Young Editorial Board Member of Chongqing Social Sciences (a CSSCI-indexed journal)
- Young Editorial Board Member of Financial Science (a CSSCI-indexed journal)
- Guest Editor-in-Chief of the Energy & Environmental Special Issue (SSCI), December 2014
- Guest Editor-in-Chief for the Special Issue of Frontiers in Environmental Science (SCI) (August 2021)
- Resource Management and Policy Editorial Board Member (February 2025–present)