



Dr. Yan Kejia

Department of Cross-Border E-Commerce | Assistant Professor

Biography

Dr. Yan Kejia is an Assistant Professor and master's supervisor. He received his Ph.D. from Griffith University and previously served as a postdoctoral fellow at Xiamen University. He has more than six years of teaching experience in economics, finance and accounting at universities in Australia and China. His research interests cover energy economics, climate finance, ESG and applied financial econometrics. Since joining Macau Millennium College, he has published ten Q1 journal articles with the College as the first affiliation, including papers in CAS top-tier journals such as Energy Economics, Habitat International, Energy Policy, and Sustainable Production and Consumption, as well as in leading international journals including Humanities and Social Sciences Communications and iScience. He also serves as a reviewer for journals including Energy Economics, Environmental Impact Assessment Review, Research in International Business and Finance, and Journal of Cleaner Production. His research has received funding from provincial and ministerial-level research projects in China, reflecting his sustained research output and international academic influence across the interdisciplinary fields of economics, finance and environmental science.

Work Experience

- 2022–2024 Postdoctoral Fellow, China Institute for Studies in Energy Policy, Xiamen University
- 2025–2026 Assistant Professor, Macau Millennium College

Education

- Sep 2022–Sep 2024 Research Assistant in Energy Economics, Xiamen University, Xiamen, China
- Sep 2015–Dec 2021 Ph.D. in Finance, Griffith University, Brisbane, Australia; full scholarship
- Jul 2014–Sep 2015 Graduate Diploma of Research Studies, Griffith University, Brisbane, Australia
- Feb 2013–Dec 2013 Master of Business in Applied Finance, Queensland University of Technology, Brisbane, Australia
- Feb 2010–Dec 2012 Bachelor of Commerce in Accounting, Griffith University, Gold Coast, Australia

Research Interests

Dr. Yan's research interests focus mainly on energy economics, climate finance and ESG-related issues. Using applied financial econometric methods, he examines the dynamic relationships among climate policy, carbon markets and financial markets, as well as their economic impacts.

Courses

- EC100 Introduction to Economics
- HM205 Hospitality and Catering Management Accounting

- BU103 Introduction to Accounting
- EC302 Economic Circle of Mainland China, Taiwan, Hong Kong and Macau
- HM100 Basic Quantitative Methods for the Hospitality and Tourism Industry

Honours and Awards

- 2025 Excellence in Teaching Award, Macau Millennium College
- 2025 Excellence in Research Award, Macau Millennium College
- 2015 Griffith Award for Academic Excellence, Griffith University
- 2015 Griffith University Postgraduate Research Scholarship, full scholarship

Research Achievements

Papers:

Minghu Xie, Kejia Yan*, Kerui Du, Bo Zhang (2026). Carbon prices alone won't green the grid: A comparative assessment of ETS design in G20 power sectors.

Energy Strategy Reviews. <https://doi.org/10.1016/j.esr.2026.102253>

Kejia Yan, Boqiang Lin (2026). Carbon–agriculture market connectedness under the EU ETS: Evidence on sectoral heterogeneity and market states. *Energy*

Economics, 109160, <https://doi.org/10.1016/j.eneco.2026.109160>.

Kejia Yan and Boqiang Lin (2025). Carbon Pricing, Commodity Markets, and Economic Stability: Evidence from the EU ETS. *Journal of Commodity Markets*, 100536. <https://doi.org/10.1016/j.jcomm.2025.100536>

Siwei Xi, Kejia Yan, Bo Zhang, Ying Li, ChengHe Guan (2026). Revitalizing oil-gas resource-based cities: Unveiling spatial heterogeneity and life cycle dynamics of sustainable development capacity. *Habitat International*. <https://doi.org/10.1016/j.habitatint.2025.103649>

Kejia Yan and Boqiang Lin* (2025). How Climate Policy Shapes Global Utility Markets: Dynamic Evidence From the EU Carbon Market. *Sustainable*

Development. <https://doi.org/10.1002/sd.3486>

Yunan Peng, Jinling Guo, Junlian Gao, Bo Zhang, Kejia Yan* (2025). China's coal mine closures from 2011 to 2019: Unintended water benefits. *Energy Nexus*.

<https://doi.org/10.1016/j.nexus.2025.100412>

Siwei Xi, Kejia Yan, Bo Zhang, Cheng Guan (2025). Revealing the sustainability transitions in China's metal resource-based cities. *Humanit Soc Sci Commun* 12, 1717 (2025). <https://doi.org/10.1057/s41599-025-05980-9>

Guo, J., Gao, J., Yan, K., Zhang, B., & Liu, H. (2025). Castles in the Sky: Revisiting the global methane pledge. *Energy Policy*, 206, 114785. Simin Xu, Yunan Peng, Kejia Yan, Mengyao Han, Bo Zhang (2025). Opportunities to mitigate process-related greenhouse gas emissions in global trade networks. *Sustainable Production and Consumption*.

Jinling Guo, Junlian Gao, Kejia Yan, Bo Zhang, He Liu (2025). Global coal trade induces large CH₄ emissions. *iScience*.

Xu Tian 1, Kejia Yan 1, Jinling Guo, Bo Zhang. (2024). Revealing historical peak situation of national CH emissions. *Journal of Cleaner Production*. Volume 451.142059.

Kemeng Liu, PengsuWang, Bo Zhang, B, Kejia Yan, Ling Shao. (2024). Network structures and mitigation potential of trade linked global agricultural greenhouse gas emissions. *Scientific Reports*, 14(1), 30973.

Yunan Peng, Bo Zhang, Kejia Yan, Mengyao Han. (2024). Mitigating China's process-related greenhouse gas emissions via supply chain management. *Journal of Cleaner Production*, 144060.

Jinling Guo, Junlian Gao, Sijia Gao, Kejia Yan, Bo Zhang, Chenghe Guan. (2024). Increasing impacts of China's oil and gas demands on global CH₄ emissions. *Science of The Total Environment*. Volume 912, 169624.

Jinling Guo, Junlian Gao, Kejia Yan and Bo Zhang. (2023). Unintended mitigation benefits of China's coal de-capacity policies on methane emissions. *Energy Policy*. Volume 181.

Pengfei Jin, Zheng Meng, Kejia Yan, Bin Chen and Bo Zhang. (2023). An ecological accounting of Chinese society 2012-2020 based on extended exergy. Volume 417. *Journal of Cleaner Production*. 137929.

Kejia Yan*, Rakesh Gupta, and Suneel Maheshwari. (2023). Using Carbon Tax to Reach the U.S.'s 2050 NDCs Goals - A CGE Model of Firms, Government, and Households. *Journal of Risk and Financial Management*. 16, no. 7: 317.2

Simin Xu, Xiaofang Wu, Kejia Yan, Ying Liu and Bo Zhang. (2023). Global trade networks bring targeted opportunity for energy-related CH emission mitigation. *Environmental Science and Pollution Research*.

Kemeng Liu, Rong Ma, Kejia Yan, Bo Zhang, Simin Xu, Cuiyang Feng. (2023). Tracing global N₂O emission mitigation strategies through trade networks. *Journal of Environmental Management*. Volume 344 (2023), 118455.

Zheng Meng, Yunan Peng, Jiayi Wu, Xudong Wu, Kejia Yan, Boxi Li, Bo Zhang. (2023). Exergy analysis of China's transportation sector. *Sustainable Energy Technologies and Assessments*. Volume 57, ISSN 2213-1388.

Kejia Yan*, Rakesh Gupta and Victor Wong. (2022). CO Emissions in G20 Nations through the Three-Sector Model. *Journal of Risk and Financial Management*. 15, no. 9: 394. Zheng Meng, Kejia Yan, Ke Li, Junlian Gao, and Bo Zhang. (2022). Revealing Non-CO GHG Emissions in China's Transportation Networks. *Environmental Science & Technology Letters*.

Meng Zheng, Jinling Guo, Kejia Yan, Zhuan Yang, Bozi Li, Bo Zhang, and Bin Chen. (2022). China's Trade of Agricultural Products Drives Substantial Greenhouse Gas Emissions. *International Journal of Environmental Research and Public Health*. 19, no. 23: 15774.

Huqin Yan, Kejia Yan* and Rakesh Gupta. (2022). A Survey of the Accounting Industry on Holdings of Cryptocurrencies in Xiamen City, China. *Journal of Risk and Financial Management*. 2022, 15, 175.

Kejia Yan*, Huqin Yan and Rakesh Gupta. (2022). Are GARCH and DCC Values of 10 Cryptocurrencies Affected by COVID-19? *Journal of Risk and Financial Management*. 2022; 15(3):113.

Kejia Yan*, Rakesh Gupta, and Sama Haddad. (2022). Statistical Analysis Dow Jones Stock Index-Cumulative Return Gap and Finite Difference Method. *Journal of Risk and Financial Management*. 15, no. 2: 89.

Kejia Yan. (2021). Turning Points of Environmental Kuznets Curves for G20 Economies (book chapter). *ECONVN*. Pp 131-141. ISBN 978-3-030-77093-8. ISBN 978-3-030-77094-5 eBook). ISSN 1860-949X ISSN 1860-9503 (electronic).

Kejia Yan*, Huqin Yan and Rakesh Gupta. (2021). The predicted trend of COVID-19 in

the United States of America under the policy of “Opening Up America Again”.

Infectious Disease Modelling.

Kejia Yan* and Suneel Maheshwari. (2020). Limitations of Financial Adviser Standards and Ethics Authority’s Code of Ethics in Australia. *Delhi Business Review*. 21(1), Jan. - June, 2020. 1 11.

Rakesh Gupta, Kejia Yan, Tarlok Singh and Di Mo. (2020). Domestic and international

drivers of the demand for water resources in the context of water scarcity: A cross-country study. *Journal of Risk and Financial Management*, 13(255).

Books:

Kejia Yan. (2019). An Analysis of the Relationship between the Stock Markets of China and other BRICS Countries, the United States and Australia. *Paths International Ltd (A company registered in England with its principal place of business at PO Box 4083 Reading RG8 8ZN England)*. ISBN: 978-1-84464-534-3. Ebook ISBN: 978-1-84464-535-0

Kejia Yan. (2018). An Analysis of the Relationship between the Stock Markets of China and other BRICS Countries, the United States and Australia. *China Financial & Economic Publishing House, China Finance & Economy Media Group (A company registered in China, 28 Fuchenglu, Haidian, Beijing, P. R. China, 100142)*. ISBN: 978-7-5095-8001-1.