

Runxin Yu

Address: Room 325, School of Environment, Qinghuayuan 1, Beijing, China

Email: yrx20@mails.tsinghua.edu.cn

Education

Ph.D. Candidate of Management, Institute of Energy, Environment and Economy, Tsinghua University, China 08/2020-06/2025 (expected)

Dissertation Title: Key policy designs of China's national emissions trading system

B.Sc. in Accounting, International School of Business & Finance, Sun Yat-sen University, China 08/2016-06/2020

Research Interest

Energy and Climate Policy, Price-based Instruments, Environmental and Resource Economics

Publications

Yu, R., Zhang, D., Zhang, X., & Huang, X. (2023). Machine Learning For Data Verification In Emissions Trading System. *Resources, Conservation and Recycling*, 199, 107239.

Luo, X., **Yu, R.**, Guo, Y., Jia, H., & Liu, D. (2022, December). Carbon Price Prediction of LSTM Method Based on Attention Mechanism. In 2022 4th International Conference on Smart Power & Internet Energy Systems (SPIES) (pp. 2198-2202). IEEE.

Zhang, X., **Yu, R.**, Qi, S., Yang, G. (2022) Theory and Practice of China's Carbon Emissions Trading System – key issues in China's national ETS and case study of Hubei pilot ETS. The Joint Reports of California-China Carbon Market Project.

Yu, R., Weng, Y., Zhang, X.(2024 forthcoming). Market Stability Mechanisms in China's National Carbon Market: Lessons from International Practices. *Environmental Protection*. (Chinese)

Weng, Y., **Yu, R.**, Zhang, X.(2023). A Cooperation Approach to Carbon Emissions Reduction Based on Green BRI Construction and International Emissions Trading. *Environmental Protection*, 51(24):72-76. (Chinese)

Zhang, S., Chen, H., Wang, B., **Yu, R.**, Ma, Z., Miu, Y. (2023) Carbon Emission Monitoring Based on Analysis from Electricity-carbon Relationship of Cement Enterprises. *China Environmental Science*, 43(07):3787-3795. (Chinese)

Zhang, X., **Yu, R.**, Weng, Y. (2022). A Comparison of the Design of China's National Emissions Trading Program with the International Programs. *Environmental Protection*, 50(22):16-20. (Chinese)

Yu, R., Zhang, D., Liu, Y., Li, Z., Zhang, D. (2022). Leveraging the Role of Carbon Market by Introducing Auction Mechanism with Chinese Characteristics. *Financial View*. 10:53-55. (Chinese)

Zhang, X., Zhang, D., **Yu, R.** (2021). Theory and Practice of China's National Carbon Emissions

Trading Program. *Journal of Management World*. 37(08): 80-95. (Chinese)

Working Papers

Yu, R., Ma, S., Zhang, D., Zhang, X. Leakage or Benefit? Spillovers from Forest Offset Program in China. (*Communications Earth & Environment* Revised and Resubmitted)

Yu, R., Zhang, D., Zhang, X. Introducing auctioning in China's national carbon market: lessons from international and domestic practices. (*Climate Policy* Revised and Resubmitted)

Yu, R., Zhang, D., Zhang, X. Carbon price drivers of China's national carbon market in the early stage. (*Climatic change* under review)

Yu, R., Zhang, X., Karplus, V. The development of China's carbon market: Overview. (*Energy and Climate management* under review)

Zhang, D., Huang, X., Zhu K., **Yu, R.**, A comparative study of energy system transformation toward carbon neutrality in BRICS nations. (*Energy and Climate management* under review)

Yu, R., Zhang, D., Zhang, X. Personal Carbon Account for Promoting Public Transit (work-in-process)

Professional Experience

Ministry of Finance of the People's Republic of China 02/2024-04/2024

Energy specialist, special research on "Accelerating the Establishment of a Fiscal and Taxation System Corresponding to the Dual Carbon Goals"

Ministry of Ecology and Environment of the People's Republic of China 07/2023-12/2023

Researcher, extensive research on the design of international carbon pricing initiatives and assisting in related policy tracking and analysis

China International Capital Corporation 01/2021-04/2021

Intern, assisting in drafting regional carbon neutrality reports, China-US climate cooperation reports, and daily data collection

Research Experience

Investigator, "Letter Requesting Assistance in Research on the Key Issues on the Construction of the National Carbon Market", Ministry of Ecology and Environment, 04/2024-12/2024

Investigator, "Research on the Theory of Carbon Inclusion Mechanism and the Additionality of Corresponding Generated Carbon Credits", Beijing Municipal Commission of Transport (RMB 500,000), 07/2023-07/2024.

Investigator, "China's National Emissions Trading System and Japan-China Dialogue on Carbon

Pricing”, Tsinghua University - Toyota Joint Research Institute (RMB 870,341), 04/2021-03/2022.

Investigator, “Research on fiscal and tax policies supporting the development of ‘dual carbon’”, the Ministry of Finance (RMB100,000), 07/2023-10/2023.

Investigator, “Scheme of Allowance Allocation in the Third Compliance Cycle of National Carbon Market and the ‘Dual Control’ of Carbon Emissions”, the Environmental Defense Fund (RMB 480,000), 09/2022-09/2023.

Investigator, “Analysis of Factors Influencing Carbon Price in the National Carbon Market and Research on Auction Mechanism”, the Environmental Defense Fund (RMB 450,000), 09/2022-09/2023.

Investigator, “Introducing Auctioning in China’s National Emissions Trading Scheme”, the Environmental Defense Fund (RMB 495,000), 10/2021-10/2022.

Investigator, “Data Quality Analysis and Warning Systems for the ETS Firms”, the Environmental Defense Fund (RMB 495,000), 10/2020-10/2021.

Investigator, “China-US Climate Change Dialogue and Cooperation Mechanism for Carbon Pricing”, China Institute for Innovation & Development Strategy (RMB 1,500,000), 06/2021-05/2022.

Investigator, “Comprehensive Study on Carbon Peak and Carbon Neutralization Paths and Countermeasures”, the National Science Foundation of China (RMB 3,000,000), 01/2022-12/2025.

Investigator, “Tsinghua-Three Gorges Climate Governance and Green Transition Research Program”, University-level Research Program (RMB 30,000,000), 08/2021-08/2026.

Conference and Seminar (Oral Presentation)

- 29th Annual Conference of the European Association of Environmental and Resource Economists (EAERE), 07/2024
- 2024 Science and Technology Annual Meeting of the Chinese Society for Environmental Sciences, 05/2024
- The Doctoral Academic Forum of Tsinghua University (Awarded Best Oral Presentation), 05/2024
- Professional Association for China’s Environment Annual Conference 2023 (PACE), 07/2023
- Workshop on Carbon Pricing Mechanism in China and Japan, 11/2023
- Series Workshops on China-California carbon market research, 04/2022-07/2022

Professional Services

Referee for Climate Policy, China Economic Review, Energy Economics

Discussant for EAERE

University Services

Teaching Assistant

Graduate Teaching Assistant, “Energy Economics and Policy”, Tsinghua University, Winter 2021

Undergraduate Teaching Assistant, “Management Accounting” and “Accounting Information Systems”, Sun Yat-sen University, Summer 2019

Facilitator

Class leader, the Institute of Nuclear and New Energy Technology, Tsinghua University, 2022-2023

Team leader, Rural Revitalization Work Station of Tsinghua University, Practice Squad in Xiamen, Fujian, 07/2022

Officer, Graduate Students’ Association, organized activities such as the Global University Climate Forum and the Doctoral Students’ Forum, Tsinghua University, 2020-2021

Student Assistant

Assistant to the Faculty Advisor and Academic Assistant, Sun Yat-sen University, 2016-2018

Fellowships and Awards

Outstanding Student First-class Scholarship, Tsinghua University, 2021-2022 & 2022-2023

Outstanding Student Second-class Scholarship, Tsinghua University, 2020-2021

Outstanding Student First-class Scholarship, Sun Yat-sen University, 2019-2020

Outstanding Student Leader Award, Sun Yat-sen University, 2016-2017

Outstanding Volunteer Award, Sun Yat-sen University, 2016-2017

Languages

Chinese (native), English (fluent)

References

Xiliang Zhang, Professor and Director of the Institute

Institute of Energy, Environment and Economy, Tsinghua University
zhang_xl@mail.tsinghua.edu.cn

Da Zhang, Associate Professor

Institute of Energy, Environment and Economy, Tsinghua University
zhangda@mail.tsinghua.edu.cn

Yuyan Weng, Assistant Professor

Institute of Energy, Environment and Economy, Tsinghua University
wengyuyan@tsinghua.edu.cn