

# Runxin Yu

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## 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

**Visiting Scholar**, California-China Climate Institute, Law School, University of California, Berkeley 12/2024-06/2025

**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

## Selected Works

**Publications-** Twelve academic articles and research reports have been published.

Yu, R., Ma, S., Zhang, D., Zhang, X. (2024). Forest vegetation increased across China's carbon offset projects and positively impacted neighboring areas. *Communications Earth & Environment*, 5, 767 (SCI Q1, IF=8.1)

Yu, R., Zhang, D., Zhang, X. (2024). Introducing auctioning in China's national carbon market: lessons from international and domestic practices. *Climate Policy*, 1–17. (SSCI Q1, IF=7.3)

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

Yu, R., Zhang, D., Zhang, X., & Huang, X. (2023). Machine Learning for Data Verification in Emissions Trading System. *Resources, Conservation and Recycling*, 199, 107239. (SCI Q1, IF=13.8)

Zhang, D., Yu, R., Huang, X., & Zhu, K. (2025). A comparative study of energy system transformation toward carbon neutrality in BRICS nations. *Energy and Climate Management*.

Zhang, X., Yu, R., Karplus, J., V. (2025). The development of China's national carbon market: an overview. *Energy and Climate Management*.

Luo, X., Yu, R., Guo, Y., Jia, H., & Liu, D. (2022). Carbon price prediction of LSTM method based on attention mechanism. 2022 4th International Conference on Smart Power & Internet Energy Systems (SPIES). 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.

**Working Papers – Over five academic articles and reports are under development.**

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., Zhu, Z., Qin, S., et al. Resetting the baselines of improved forest management offset projects using data driven approaches. In process.

Yu, R., et al., Ensuring integrity of carbon credits: a comparative analysis of voluntary carbon markets in

China and California. In process.

**Yu, R.**, Zhang, D., et al. Personal carbon account for promoting public transit. In process.

Qin, S., Wang, Y., **Yu, R.**, et al. MRV for forest carbon offset projects using airborne LiDAR.

Zhu, Z., Mao, H., **Yu, R.**, et al. Integrated planning of net-zero power systems for all.

### **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

### **Selected Research Experience**

**Successfully accomplished over ten research projects with a cumulative value exceeding \$1 million**

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

**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**, “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**, “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.

### **Conference and Seminar (Oral Presentation)**

- the Fifth Iteration of the Workshop in Environmental Economics and Data Science (TWEEDS), 04/2025
- 29<sup>th</sup> 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, Climatic Change, Nature Humanities and Social Sciences Communications
- **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

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

## **Fellowships and Awards**

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

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

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

## **Languages**

Chinese (native), English (fluent)

## **Skills**

Microsoft Office Suite, Stata, Python, R