

Chenfei QU

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APPOINTMENT

Stanford University 09/2025–Present
Environmental Social Sciences, Doerr School of Sustainability
Stanford Energy Postdoctoral Fellow (Three-year Fellowship)
Mentors: Solomon Hsiang and Lawrence H. Goulder

EDUCATION

Tsinghua University 09/2020–08/2025
Institute of Nuclear and New Energy Technology
PhD in Management Science and Engineering (Energy and Climate Change Economics)
Advisor: Xiliang Zhang

Tsinghua University 09/2016–08/2020
School of Environment
BS in Environmental Engineering (Global Environment Program)
School of Economics and Management
Minor in Economics

RESEARCH VISITS & INTERNSHIPS

ZEW-Leibniz Centre for European Economic Research 09/2024–12/2024
Visiting Researcher (Mentor: Sebastian Rausch)

World Bank DEC-Sustainability & Infrastructure 06/2022–09/2023
Research Assistant (Mentor: Carolyn Fischer)

Kyoto University, Fujimori's Lab 07/2019–09/2019
Research Assistant (Mentor: Shinichiro Fujimori)

Venice International University 02/2019–06/2019
Exchange Student — Globalisation Program

National Development and Reform Commission 06/2018–12/2019
Research Assistant (Mentor: Kejun Jiang)

PUBLICATIONS (Google Scholar: 182 citations, h-index: 8, as of 08/2026)

Working Papers

1. **Rate-Based Emissions Trading with Overlapping Policies: Insights from Theory and an Application to China.** Carolyn Fischer*, [Chenfei Qu](#)*, Lawrence H. Goulder. (*Equal contribution). NBER Working Paper No.33197.
 - Best Conference Paper Golden Prize, 2024 Conference of the Chinese Association of Environmental and Resource Economists.
 - *Revise & Resubmit* at *Journal of the Association of Environmental and Resource Economists*.

Selected Peer-reviewed Articles

1. **China's Nationwide CO₂ Emissions Trading System: A General Equilibrium Assessment.** Lawrence H. Goulder, Xianling Long, Chenfei Qu, Da Zhang. *American Economic Journal: Economic Policy*, forthcoming. (Equal contribution, alphabetical order).
2. **Different Carbon Neutrality Strategies Induce Substantially Divergent Health Benefits and Distributional Impacts in China.** Da Gao*, Chenfei Qu*, Bin Zhao, Shuxiao Wang, Xiaodan Huang, Yisheng Sun, Yueqi Jiang, Zhongfeng Xu, Xiaocong Wang, Yicong He, Jiewen Shen, Dejie Yin, Haotian Zheng, Hongrong Shi, Zhe Jiang, Xiao-Wen Zeng, Yun Zhu, Biwu Chu, Hong He, Xiliang Zhang, Da Zhang. *Environmental Science & Technology*. 2025, 59, 50, 27517–27529. (*Equal contribution).
3. **The C-REM 4.0 model: A CGE Model for Provincial Analysis of China's Carbon Neutrality Target.** Hantang Peng, Chenfei Qu, Valerie Karplus, Da Zhang. *Energy and Climate Management*, 2024, 01.
4. **Climate Actions, Persistent Pollutants, and Human Health: A Call for Integrated Assessments.** Shan Niu, Minghao Qiu, Li Li, Chenfei Qu, Da Zhang. *Environmental Science & Technology*, 2024, 58, 36, 15885–15887.
5. **Exploring US-China Climate Cooperation Through Linked Carbon Markets.** Alexander Li, Chenfei Qu, Xiliang Zhang. *Advances in Climate Change Research*, 2023, 14(1): 145–155.
6. **Estimating Health Co-Benefits of Climate Policies in China: An Application of the Regional Emissions-Air Quality-Climate-Health (REACH) framework.** Chenfei Qu, Xi Yang, Da Zhang, Xiliang Zhang. *Climate Change Economics*, 2020, 11(03): 2041004.

Other Selected Publications

1. **VoxDev Article:** China's Nationwide Carbon Market: Costs, Environmental Gains, and Potential Reforms. 2026.
2. **Resources for the Future Blog:** Assessing China's New Nationwide Effort to Reduce Carbon Dioxide Emissions. 2024.
3. **VoxChina Blog:** China's New Nationwide CO₂ Emissions Trading System: General Equilibrium Impacts. 2024.

ONGOING RESEARCH

1. Pay-as-You-Go Climate Policy: Political Acceptability and the Choice of Instrument. With Lint Barrage (ETH Zurich) and Solomon Hsiang (Stanford). Working paper expected end-2026.
2. Pricing Carbon in the Automobile Supply Chain. With Valerie Karplus (CMU), Ming Li (CUHK), Shanjun Li (Stanford), and Enjie Ma (CUHK). Working paper expected mid-2027.
3. The Cost of Going It Alone: Deglobalization's Carbon Consequences. With Yang Pei (Tsinghua), Anton C. Yang (Yale), and Da Zhang (Tsinghua). Working paper expected early 2027.
4. Recovering High-Resolution CO₂ Emissions from Remote Sensing and Ground Observations. With Junting Zhong (CAMS) and Da Zhang (Tsinghua). Working paper expected mid-2027.

RESEARCH PROJECTS

1. Key Personnel, Key Program of the National Natural Science Foundation of China (Grant No. 72140005) (~\$450,000), “A Comprehensive Study on Pathways and Policy Strategies for Carbon Peaking and Carbon Neutrality”, 2022–2025.
2. Co-Investigator, Asian Development Bank (\$10,000), “Two Instruments, One Goal: A General Equilibrium Analysis of Emissions Trading System and Carbon Tax Coordination in the PRC”, 2025.
3. Co-Investigator, Natural Resources Defense Council (\$100,000), “Economic Analysis of China's National Carbon Market”, 2025.
4. Co-Investigator, Tsinghua-Toyota Joint Research Institute (\$100,000), “Allowance Allocation Research of China's National Carbon Market”, 2023–2024.

FELLOWSHIPS AND AWARDS

1. Stanford Energy Postdoctoral Fellowship, Stanford University (~\$100,000/year for 3 years), 2025–2028
2. Best Reviewers Award of the *International Journal of Industrial Organization*, 2025
3. Best Conference Paper Golden Prize, Conference of the Chinese Association of Environmental and Resource Economists (CAERE), 2024
4. PhD Scholarship for Overseas Research Visit, Tsinghua University, 2024
5. Xie Zhenhua Global Practice Scholarship, Tsinghua University, 2024
6. China National Scholarship for Graduate Students, 2021
7. Outstanding Graduate Thesis, Tsinghua University, 2020
8. Outstanding Academic Performance in Globalization Program, Venice International University, 2019

CONFERENCE PRESENTATIONS AND INVITED TALKS

2026

- IAEE Webinar Series: “Emission Trading Scheme: Practice in China with focus on feasibility and effectiveness – Online”
- Stanford Energy Postdoctoral Fellowship Symposium: “China’s Emissions Trading System: Insights for Emerging Economies”

2025

- The annual Allied Social Science Associations (ASSA) meeting
- ADB ERDI Seminar Series: “Two Instruments, One Goal: A General Equilibrium Analysis of Emissions Trading System and Carbon Tax Coordination in the PRC”

2024

- Conference of the Chinese Association of Environment and Resource Economists (CAERE)
- Association of Environmental and Resource Economists (AERE) Conference
- Global Trade Analysis Project (GTAP) Annual Conference
- Workshop on Environmental and Energy Economics at Shanghai Jiao Tong University
- 2nd China Energy Model Youth Forum

2023

- NBER Environment and Energy Economics Program Meeting
- Mannheim Conference on Energy and the Environment
- Global Trade Analysis Project (GTAP) Annual Conference
- International Conference of China and Development Studies
- European Association of Environmental and Resource Economists (EAERE) Conference

REFeree SERVICE

American Economic Journal: Economic Policy, Nature Energy, Proceedings of the National Academy of Sciences (PNAS), Journal of the Association of Environmental and Resource Economists, Journal of Environmental Economics and Management, Journal of Public Economics, International Journal of Industrial Organization, Resource and Energy Economics, Energy and Climate Management.