Ying Yu

135 Dauer Drive, Chapel Hill, NC 27599-7400 ·Email: ying.yu@unc.edu

---

EDUCATION

The University of North Carolina at Chapel Hill — Chapel Hill, US
PhD Candidate in Environmental Sciences and Engineering — May 2024 (expected)
Proposed dissertation title: *"Bridging the Gap Between Residential Energy Data and Policy for Vulnerable Communities under Climate Change"*

Xiamen University — Xiamen, China
Master of Management in Technology Economy & Management — Jun. 2020
GPA: 3.9/4.0 (Rank: 1/14)

Université Jean Moulin Lyon III — Lyon, France
Exchange Studies in SELF Program — Dec. 2018
GPA: 15.03/20

Central China Normal University — Wuhan, China
Bachelor of Economics Sciences in Financial Engineering — Jun. 2017
GPA: 88.98/100 (Rank: 1/41)

RESEARCH INTERESTS

Environmental & Energy Economics and Policy *(Climate-Energy Equity Nexus; Decarbonization; Carbon Neutrality)*

RESEARCH PAPERS

Published:

10. **Yu, Y.**, Yamaguchi, K., Thuy, T.D., Kittner, N. (2022). Will the public in emerging economies support renewable energy? Evidence from Ho Chi Minh City, Vietnam. *Renewable and Sustainable Energy Reviews*, 169, 112942.

9. **Yu, Y.**, Yamaguchi, K., Kittner, N. (2022). How do imports and exports affect green productivity? New evidence from partially linear functional-coefficient models. *Journal of Environmental Management*, 308, 114422.

8. Du, K., **Yu, Y.**, Li, J. (2020). Does international trade promote CO2 emission performance? An empirical analysis based on a partially linear functional-coefficient panel data model. *Energy Economics*, 92, 104983.

7. Du, K., **Yu, Y.**, Wei, C. (2020). Climatic impact on China's residential electricity consumption: Does the income level matter? *China Economic Review*, 63, 101520.

6. Liu, Z., Dou, X., **Yu, Y.**, Tan, J., Sun, T., Meng, J. (2023) China's embodied carbon emission transfer in global trade (in Chinese). *China Journal of Econometrics*, In Press.

5. Liu, Z., Sun, T., **Yu, Y.**, et al. (2022). Near-real-time carbon emission accounting technology toward carbon neutrality. *Engineering*, 14, 44-51.

4. Bai, C., Du, K., **Yu, Y.**, Feng, C. (2019). Understanding the trend of total factor carbon productivity in the world: insights from convergence analysis. *Energy Economics*, 81, 698-708.

3. Huang, Z., Wang, J., Bing, L., Qiu, Y., Guo, R., **Yu, Y.**, et al. (2023). Global carbon uptake of cement carbonation accounts 1930–2021. *Earth System Science Data Discussions.*, 2023, 1-28.

2. Dou, X., Hong, J., Ciais, P., Chevallier, F., Yan, F., **Yu, Y.**, et al. (2023). Near-real-time global gridded daily CO2 emissions 2021. *Scientific Data*, 10, 69.

1. Dai, F., Kahrl, F., Gordon, J.A., Perron, J., Chen, Z., Liu, Z., **Yu, Y.**, et al. (2023) U.S.-China coordination on carbon neutrality: An analytical framework. *Climate Policy*, 1-15.

Under review:

4. **Yu, Y.**, Kittner, N. Temperature extremes disproportionately impact U.S. energy burdens. In revision in *Environmental Research Letters*.

3. Yan, Z., **Yu, Y.**, Du, K., Zhang, N. How does environmental regulation promote green technology innovation? Evidence from China's Total Emission Control Policy. Under review in *Ecological Economics*.

2. Lu, C., Huang, Y., **Yu, Y.**, Hu, J., Li, Y., Liu, Z., et al., Health co-benefits of post-COVID-19 green recovery in Chinese cities. Under review in *Nature Cities*.

1. Song, K., Hsu, A., Peng, W., **Yu, Y.**, Kittner, N. Projecting future demographic disparities in heat stress in the contiguous US. Under review in *Nature Climate Change*.

CONFERENCE PRESENTATION

The 40th USAEE/IAEE North American Conference	Nov. 2023 (upcoming)
Duke University Energy Data Analytics Symposium	Oct. 2023 (upcoming)
The 6th International Conference on Public Policy	Jun. 2023
Student Participatory Workshop on Climate and Energy Decision Making	May 2023
The 39th USAEE/IAEE North American Conference	Oct. 2022
Interdisciplinary PhD Workshop in Sustainable Development 2022	Apr. 2022
2020 Graduate Climate Conference	Nov. 2020
The 37th USAEE/IAEE North American Conference	Nov. 2019

RESEARCH EXPERIENCE

Energy Vulnerability under Climate Crisis Feb. 2023-Present

Student PI Durham, US

- Leading in evaluating energy vulnerabilities corresponding to various climate crises based on improved higher-resolution energy data using machine learning and remote sensing techniques.
- Funded by the Duke-Sloan Energy Data Analytics Ph.D. Student Fellows program.

Climate-Energy-Health Equity Nexus Aug. 2020-Present

Research Assistant Chapel Hill, US

- Conceptualizing and leading in modeling climate-energy-health equity nexus among vulnerable communities using empirical economic strategies.
- Two papers were published in academic journals. One paper is under review.

Carbon Monitor Aug. 2020-Present

Research Assistant Remote

- Conducting carbon neutrality analysis, collecting and visualizing carbon data, modeling impact pathways for carbon emissions, and drafting academic papers.
- Served as Executive Editor and led the writing of the report titled "Global Daily CO2 Emissions Report 2023."
- Three papers were published in academic journals. Two reports were launched.

Carbon Emission Performance Evaluation Dec. 2018-Jun. 2020

Research Assistant Xiamen, China

- Assessed carbon emission performance using heterogeneous statistical techniques including Stochastic Frontier Analysis (SFA), Difference-in-Differences (DID), and Semi-parametric Panel Data Model.
- Three papers were published in academic journals. One paper is under review.

TEACHING EXPERIENCE

Guest Lecture Chapel Hill, US July 2023

- Invited to guest lecture on Applied Issues in Geographic Information Systems (PLAN 591) and gave a speech on applying machine learning in energy equity.

Teaching Assistant Chapel Hill, US Jan. 2023-May 2023
- Teaching assistant in Energy Modeling for Environment and Public Health (ENVR 635), assisted with course design, assignment grading, and problem-solving.

Teaching Assistant Xiamen, China Sept. 2019-Jan. 2020
- Teaching assistant in Macroeconomics (U10300700012), assisted with assignment design, assignment grading, and problem-solving.

HONORS AND AWARDS

UNC Doctoral Dissertation Completion Fellowship	Mar. 2023
Duke-Sloan Summer Fellowship in Energy Data Analytics	Feb. 2023
Tang Lixin Scholarship, *Top 0.1%*	Oct. 2019
National Scholarship, *Top 0.2%*	Oct. 2019
National Scholarship, *Top 0.2%*	Nov. 2018
University Scholarship, *Top 5%*	Apr. 2018
National Scholarship, *Top 0.2%*	Nov. 2016
University Scholarship, *Top 5%*	Nov. 2015
University Scholarship, *Top 5%*	Nov. 2014

EXTRA-CURRICULAR ACTIVITIES

Berkeley Summer Camp in Environmental & Energy Economics Aug. 2022
- Exchanged knowledge on the frontiers of environmental and energy economics and gave a presentation for the doctoral dissertation proposal.
- Awarded a camp fellowship and was mentored by Dr. Maximilian Auffhammer.

Summer School in Econometrics and Statistics Jul. 2019
- Studied cutting-edge models in applied econometrics through the Econometric Society's summer camp, including spatial econometrics, semi-parametric, and non-parametric models.

OTHERS

Languages: English(Advanced), Japanese(Intermediate), Mandarin(Native).
Software: R, Stata, Python, ArcGIS, Matlab.

REFEREES

Dr. Noah Kittner (Committee chair)
Assistant Professor
UNC-Chapel Hill
kittner@unc.edu

Dr. Zhu Liu (RA supervisor)
Professor
Tsinghua University
zhuliu@tsinghua.edu.cn

Dr. Angel Hsu (Committee member)
Assistant Professor
UNC-Chapel Hill
angel.hsu@unc.edu

Dr. Paige Weber (Committee member)
Assistant Professor
UC Berkeley
paigeweber@berkeley.edu