Zhenxuan Wang

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Nelson Hall, North Carolina State University, Raleigh, NC 27695, U.S.

Interests	Environmental and Energy Economics
	Development Economics
	Public Economics
	Climate Policy
	Energy Transition

Education	**Duke University**, Durham, NC, U.S.	
	Ph.D. in Environmental Economics	2018 – 2024
	M.A. in Economics	2021 – 2024
	Certificate in College Teaching	2019 – 2024
	Preparing Future Faculty Program	2021 – 2022
	Wuhan University, Wuhan, Hubei, China	
	B.A. in Economics	2013 – 2017
	B.S. in Mathematics	2013 – 2017

Primary Positions	**North Carolina State University**, Raleigh, NC, U.S.	
	Department of Agricultural and Resource Economics	
	Assistant Professor	2024 –
	Center for Environmental and Resource Economic Policy (CEnREP)	
	Faculty Affiliate	2024 –

Affiliations	**Duke University**	
	Nicholas Institute for Energy, Environment & Sustainability	
	Student Fellow	2020 – 2024
	Energy Data Analytics Fellow	2021 – 2022
	The James E. Rogers Energy Access Project	
	Student Fellow	2022 – 2024

Journal Publications	Wang, Zhenxuan and Junjie Zhang (2023). "The Value of Information Disclosure: Evidence from Mask Consumption in China." *Journal of Environmental Economics and Management*, 122, 102865.
	Meeks, Robyn C., Arstan Omuraliev, Ruslan Isaev, and Zhenxuan Wang (2023). "Impacts of Electricity Quality Improvements: Experimental Evidence on Infrastructure

Investments." *Journal of Environmental Economics and Management*, 120, 102838.

Cui, Jingbo, Tianqi Li, and Zhenxuan Wang (2023). "Research Collaboration beyond the Boundary: Evidence from University Patents in China." *Journal of Regional Science*, 63(3), 674-702.

Sexton, Steven, Zhenxuan Wang, and Jamie T. Mullins (2022). " Heat Adaptation and Human Performance in a Warming Climate." *Journal of the Association of Environmental and Resource Economists*, 9(1), 141-163.

Cui, Jingbo, Zhenxuan Wang, and Haishan Yu (2022). "Can International Climate Cooperation Induce Knowledge Spillover to Developing Countries? Evidence from CDM." *Environmental and Resource Economics*, 82(4), 923–951.

Zhang, Junjie, Zhenxuan Wang, and Xinming Du (2017). "Lessons Learned from China's Regional Carbon Market Pilots. " *Economics of Energy & Environmental Policy*, 6(2), 19-38.

WORKING PAPERS

Ahmad, H., Ali, A., Meeks, R., Wang, Z., & Younas, J. (2024). "Down to the Wire: Leveraging Technology to Improve Electric Utility Cost Recovery." *American Economic Journal: Applied Economics, Revise & Resubmit*.

Meeks, R., Thompson, H., & Wang, Z. (2024). "Decentralized Renewable Energy to Grow Manufacturing? Evidence from Mini-grids in Nepal." *Journal of Environmental Economics and Management, Revise & Resubmit*.

Ahmad H. F., A. Ali, R. Meeks, V. Plutshack, Z. Wang, J. Younas (2023). "Breaking the Culture of Non-Payment: A Qualitative Analysis of Utility Intervention Project Sarbulandi in Karachi Electric, Pakistan". *Utilities Policy, Revise & Resubmit*.

Wang, Z. (2024) "Bridge or Barrier to Net Zero? Gas Infrastructure Expansion and the Cost of Electrification." *Working Paper*.

Liu, Y., Li, Q., & Wang, Z. (2024). "Critical Thresholds for Transboundary Fish Resources under Climate Change." *Under Review*.

Cui, J., Wang, C., Wang, Z., Zhang, J., & Zheng, Y. (2023). "Carbon Leakage within Firm Ownership Networks." *Under Review*.

Meeks, R., Pless, J., & Wang, Z. (2023). "Can Digitalization Improve Public Services? Evidence from Innovation in Energy Management." *Under Review*.

WORKS IN PROGRESS

"Lifesaving Broadcasts: The Value of Disseminating Weather Information."

"Electrification of Buildings."

"Steered Away from Trees: Tree Inequality and Climate Injustice."
(w/ Chris Timmins)

"Information and Behavioral Approaches to Increase Electricity Payment and Reduce Pollution from Electricity in Pakistan."
(w/ Robyn Meeks, Ayesha Ali, Javed Younas, Husnain Ahmad | Funded by J-PAL)

"Competitiveness Effects of Global Climate Change Policy."
(w/ Joseph Aldy and William Pizer)

"Low-Carbon Policy and Green Jobs in China."
(w/ Geunyong Park, Katherine Stapleton, and Ande Shen)

"Adaptive Fisheries Management under Climate Change: A Closer Look at the Opportunities and Challenges."
(w/ Qingran Li and Yaqin Liu)

REFEREE SERVICES

Journals
China Economic Review, Clean Technologies and Environmental Policy, Economic Journal, Energy Economics, Energy Journal, Environmental Monitoring and Assessment, Journal of Asian Economics, Journal of Economic Behavior and Organization, Journal of Environmental Economics and Management, Journal of Health Economics, Journal of Regional Science, Nature Climate Change, PLOS ONE, Scientific Reports

Conferences
AERE Summer Conference

TEACHING EXPERIENCE

North Carolina State University
Instructor

Environmental and Resource Economics	Fall 2024
Applied Microeconometrics	Fall 2024

Guest Lecture

Climate Econometrics	Fall 2021

Duke University
Instructor

Causal Inference and Applications (Review Session)	Spring 2022
Program Evaluation and STATA Applications (Lab Session)	Spring 2021

Teaching Assistant

Quantitative Evaluation Method	Spring 2021, 2022, 2023
Microeconomics and Public Policy Making	Fall 2021
Economics of Sustainable Development	Fall 2020
Economics of the Public Sector	Fall 2019

Duke Kunshan University

Teaching Assistant

Environmental Economics	Fall 2017
China Environmental Issues	Fall 2017

HONORS & AWARDS

Duke University

Global Student Research Fund	2023
Aleane Webb Dissertation Research Fellowship	2023
Bass Digital Education Fellowship	2023
Department Training Award	2022, 2023
Conference Travel Award	2022, 2023
Preparing Future Faculty Fellow	2021
Anne T. and Robert M. Bass Fellowship	2021
Energy Data Analytics Fellowship (Sloan Foundation)	2021
Energy Doctoral Student Fellowship	2020 – 2024
James B. Duke Fellowship	2018 – 2023
Summer Research Fellowship	2019, 2020, 2022
Doctoral Fellowship	2018 – 2023

Conference

EAERE Participation Grants, EAERE	2021
Best Student Paper, The Chinese Economist Society	2021

U.S. Department of State

Scholarship on Studying Global Environmental Issues	2017

Wuhan University

Outstanding Bachelor Thesis (Top 3%)	2017
Outstanding Graduates (Top 1%)	2017
First-Class Scholarship (Top 5%)	2015, 2016
Outstanding Student (Top 5%)	2015, 2016
Honorable Mention, Mathematical Contest in Modeling	2016
University Freshmen Scholarship (Top 10%)	2013

GRANTS

Graduate Student Training Enhancement Grant, Duke University   2023
"Evaluating the Advances and Challenges of Decarbonizing the Residential Building Sector"

Hayek Fund, Institute for Humane Studies   2023
"Tree Inequality and Climate Injustice"

James E. Rogers Energy Access Project at Duke   2023
"Energy Infrastructure, Electricity Services, and Household Electricity Consumption: Implications for Climate Resilience and Justice"

King Climate Action Initiative (K-CAI) at J-PAL   2022 – 2023
"Information and Behavioral Approaches to Increase Electricity Payment and Reduce Pollu-

tion from Electricity"
Co-PI (Co-PIs: Robyn Meeks, Ayesha Ali, Javed Younas)

Duke University Energy Initiative & Alfred P. Sloan Foundation   2021
"*Using Machine Learning Approach to Improve the Understanding of Household Adoption of Energy-Efficient Technologies*"

Energy for Economic Growth (EEG)   2020 – 2021
"*Power Systems and COVID 19 in the Developing World: Understanding the Role of Metering and Infrastructure Improvements in Power System Resilience*"
Co-PI (Co-PIs: Robyn Meeks, Ayesha Ali, Javed Younas, Husnain Ahmad, Ruslan Isaev, Arstan Omuraliev)

National Natural Science Foundation of China   2018 – 2022
"*An Empirical Study of Air Pollution Cost through the Defensive Expenditure Approach*"
Researcher (PI: Junjie Zhang)

The Energy Foundation   2017 – 2019
"*An Economic Analysis of the Top-Level Design of China's Carbon Market*"
Researcher (PI: Junjie Zhang)

WORKSHOPS & CONFERENCES

2024
Camp Resources (Asheville), AERE Annual Summer Conference (DC), Duke Kunshan University, University of Pittsburgh (Econ), North Carolina State University (ARE), World Bank (DECRG), Carleton University (Econ), Indiana University (O'Neill School), University of Queensland (Econ), Shanghai Jiao Tong University (Antai College), Hong Kong University of Science and Technology (Guangzhou), Monash University (Econ, Canceled), University of Houston (Hobby School, Canceled)

2023
AERE @ SEA (New Orleans), Camp Resources XXIX (Asheville), NBER Summer Institute (Cambridge), AERE @ WEAI (San Diego), Climate Economics Pipeline Workshop (Harvard Kennedy School), AERE Annual Summer Conference (Portland), WAS Seminar (Duke), UPEP Seminar (Duke), GRW Seminar (Duke)

2022
NEUDC (Yale), Machine Learning in Economics Summer Institute (UChicago), NBER Summer Institute (Cambridge), NBER Innovation Research Boot Camp (Cambridge), Empirical Methods in Energy Economics Summer Workshop (Online), LSE Workshop in Environmental Economics (London), AERE Annual Summer Conference (Miami), The Economics of Energy Markets and Energy Access (UChicago), NBER EEE Spring Conference (Cambridge), WAS Seminar (Duke), UPEP Seminar (Duke)

2021
Colorado Technology Primer (Golden), Camp Resources XXVII (Asheville), AERE Annual Summer Conference (Online), EAERE 26th Annual Conference (Online), CES Annual Conference (Online), NBER Summer Institute (Online), NBER Economics

of Innovation in the Energy Sector (Online), UPEP Seminar (Duke)

2020
Berkeley/Sloan Summer School in EEE (UC Berkeley), AERE @ SEA Annual Conference (New Orleans), UPEP Seminar (Duke), CES NA Annual Conference (Boston), AERE @ EEA Annual Conference (Boston)

2019
Workshop on Environmental and Energy Economics (Shanghai), UPEP Seminar (Duke), AERE Annual Summer Conference (Lake Tahoe), Duke-Northwestern Causal Inference Workshop (Duke)

UNIVERSITY SERVICE	Global Energy Access Network (GLEAN) at Duke *Fellow*	2022 –
	Duke Graduate & Professional Student Council *General Assembly Representative*	2019 – 2020
	Duke University UPEP Seminar *Organizer*	2019 – 2021
MEMBERSHIP	American Economic Association Association for Public Policy Analysis & Management Association of Environmental and Resource Economists European Association of Environmental and Resource Economists Society of Duke Fellows The Chinese Economist Society	
LANGUAGES	Chinese (native), English (fluent)	
COMPUTER SKILLS	Expert in Stata, LaTeX, Asymptote Proficient in R, MATLAB, ArcGIS, Python, echart.js Basic in C/C++, SAS, Geoda, SQL, Javascript, HTML/CSS, Github	

Last Updated: August 18, 2024