YUTING YANG

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EMPLOYMENT

Professor, School of Energy, Tianjin University *August 2026 - Present*

Assistant Professor, Department of Economics, University of New Mexico *August 2021 - August 2026*

Research Fellow, Toulouse School of Economics *September 2020 - December 2020*

Visiting Scholar, Bren School of Environmental Science & Management, University of California Santa Barbara *March 2019 - June 2019*

EDUCATION

Toulouse School of Economics, France *June 2020*
Ph.D. in Economics
Thesis: *Economic Studies on Energy Transition and Environmental Regulations*
Advisors: Stefan Ambec, Nicolas Treich

Toulouse School of Economics, France *October 2015*
M.A. in Economics (Theory and Econometrics)

Vanderbilt University, United States *June 2014*
M.A. in Economic Development

Zhejiang University, China *June 2012*
B.A. in International Economics & Trade

PUBLICATIONS

[*] *co-first author,* [#] *corresponding author*

1. Zhang, P., Zhao, Z., Wang, T., **Yang, Y.**[#], & Gong, J., (2026) Technical feasibility and economic viability for coupling electrocatalytic reactions. *Nature Reviews Clean Technology.*
2. **Yang, Y.,** (2026) Disentangling the distributional inequity of solar tax credits. *Energy Economics, 158, 109294.*
3. Guo, J., Wang, R., **Yang, Y.**[#], Zhang, Q., Cao, F., Zhao, J., Pan, C., & Ling, T. (2026) Local alkalinity enables high-performance pure water anion exchange membrane electrolysis. *Nature Communications 17, 2335.*
4. Wang, R., **Yang, Y.**[*], Guo, J., Zhang, Q., Wan, Y., Cao, F., Han, L, & Ling, T. (2025) Cathode catalyst layers modified with Brønsted acid oxides to improve proton exchange membrane electrolysers for impure water splitting. *Nature Energy 10, 880–889.*
5. Xiao, S., **Yang, Y.**[*#], Li, Y., Lin, J., & Jin, Y. (2025) Decarbonizing the non-carbon: Benefit-cost analysis of phasing out the most potent GHG in interconnected power grids. *Environmental Science & Technology, 59(9).*
6. Xu, J., **Yang, Y.**, Jin, H., Zheng, Y., & Qiao, S. (2025) Bridging gaps between lab and fab-oriented anode design for proton exchange membrane water electrolyzers. *Chem, 11(1).*
7. Ambec S. & **Yang Y.**[*] (2024). Climate policy with electricity trade. *Resource and Energy Economics, 76, 101422.*

8. **Yang Y.** (2022) Electricity interconnection with intermittent renewables. *Journal of Environmental Economics and Management, 113, 102653.*

9. Treich N. & **Yang Y.**[*] (2021) Public safety under imperfect taxation. *Journal of Environmental Economics and Management, 106, 102421.*

WORKING PAPERS

[*] *co-first author,* [#] *corresponding author*

Sun, Z., Liu, H., Cheng, Y., Li, H., Han, Z., Tang, Y., Zhang, X., Shi, C., He, F., **Yang, Y.**[#], Chen, B., & He, H., 900°C Thermal-Force Coupling Carbonization Tailoring Hard Carbon Microstructures for 216.1 Wh kg-1 Sodium-Ion Pouch Batteries. *Accepted.*

Mamkhezri, J., & **Yang, Y.**[#], Environmental Attitudes and Willingness to Pay for Residential Electrification: A Discrete Choice Experiment. *Under Review.*

Vick, E., **Yang, Y.,**[#] & Chermak, J., From peak to base load: understanding residential electricity consumption in the context of energy transition. *R&R.*

Mamkhezri, J., Sun, X., & **Yang, Y.**[*], The Hidden Cost of the Cloud: Data Centers and Transmission-Induced Electricity Prices. *Under Review.*

Yang, Y.[#], & Mamkhezri, J., Stated preferences without revealed action: environmental attitudes and the margins of residential building decarbonization. *Under Review.*

A degradation-state-oriented device-material-element framework for high-value recycling of retired lithium-ion battery cathodes. *Under Review.*

Jiao, L., **Yang, Y.**[*], Wang, B., Li, L., Du, Q., & Jiao, K., Beyond net-zero dates: designing market-based climate policies within finite carbon budgets. *Submitted.*

Du, H., Li, X., Peng, B., Liu, J., Zou, H., Kharrazi, A., **Yang, Y.**[#], & Mi, Z., Co-controlling air pollution and CO_2 reshapes technology pathways in China's high-emitting sectors. *In preparation.*

Mamkhezri, J., Sun, X., & **Yang, Y.**[*], Site and Scale: Data Centers, Electricity Prices, and Welfare. *In preparation.*

Yang, Y.[#] & Goodkind, A., Local regulation with multimarket firms and durable goods. *In preparation.*

Jawhari, A., **Yang, Y.** & Mamkhezri, J., The impact of household electrification on electricity demand. *Work-in-progress.*

Zhao, J., **Yang, Y.**, Mamkhezri, J. & Sun, X., The energy rebound effect of solar adoption. *Work-in-progress.*

Yang, Y. & Zhao, J., Impact of policy incentives on residential solar market dynamics. *Work-in-progress.*

Yang, Y., The value of personalized TOU pricing. *Work-in-progress.*

Serra, C. & **Yang, Y.**, The impact of net metering policy design on residential solar capacity decisions. *Work-in-progress.*

Xu, S., **Yang, Y.**, Qiu, M., & Jian, S., Does solar power bring fire? Utility-scale photovoltaic development and wildfire in six countries. *In preparation.*

OTHER SCHOLARLY WORKS

Yang, Y., Mamkhezri, J., Jawhari, A., Zhao, J., & Cornelius, B. (2026). Pathway to Zero Natural Gas. *White Paper, UNM Department of Economics, prepared for the State of New Mexico.*

Yang, Y., Zhao, J., McMaster, R., & Serra-Sala, C. (2025). Residential solar market and utility policy in New Mexico. *White Paper, UNM Department of Economics, prepared for the State of New Mexico.*

Yang, Y., & Zhao, J. (2024). Equity in solar PV adoption in New Mexico. *White Paper, UNM Department of Economics, prepared for the State of New Mexico.*

Ambec, S., & **Yang, Y.** (2023). Can supergrids save the planet? *TSE Reflect.*

Yang, Y. (2022). Challenges and opportunities of electricity interconnection with renewables. *EAERE Magazine.*

RESEARCH FUNDING

1. Evaluating Public Preferences for Sustainable Transportation Policies in New Mexico Using Best-Worst Scaling (PI)
   New Mexico Department of Transportation 12/2025 – 07/2026, $19,813
2. Pathway to Zero Natural Gas: Understanding the Transition from Natural Gas to Electric Appliances in LADPU Households (PI)
   Los Alamos Department of Public Utilities, New Mexico Research and Public Service Projects 01/2025 – 06/2026, $70,000
3. Four Corners Carbon Storage Hub: CarbonSAFE Phase III Project Subaward (Lead PI)
   U.S. Department of Energy, 10/01/2024-09/30/2027, $407,482
4. CUSP: Four Corners Regional Initiative Subaward (Co-PI)
   U.S. Department of Energy, 10/01/2024-09/30/2026, $230,000
5. The Impact of Market Structure and Utility Incentives on Solar PV Adoption in New Mexico (PI)
   New Mexico Research and Public Service Projects, 08/15/2024 – 06/30/2025, $20,000
6. Equity in New Mexico Residential Solar Photovoltaic Adoption (PI)
   New Mexico Research and Public Service Projects, 05/01/2023 – 06/30/2024, $48,404
7. The New Mexico SMART Grid Center: Sustainable Modular Adaptive Resilient and Transactive (Senior Personnel)
   U.S. National Science Foundation EPSCoR RII Track-1, 09/15/2018 – 08/31/2023, $125,000

CONFERENCE AND WORKSHOP PRESENTATIONS

2027: IAEE@ASSA (scheduled, co-author present)

2026: AERE@WEAI, POWER conference (co-author present), USAEE (co-author present)

2025: AERE Summer Conference, UNM 4th Economics Day, UNM Lightning Lounge, Barcelona School of Economics Energy Research Group

2024: New Mexico Consortium for Energy Sustainability and Advanced Management Workshop, UNM Departmental Seminar Series, SEA Washington DC, USAEE Baton Rouge, CU ERE Workshop Vail, UNM 3rd Economics Day

2023: USAEE Chicago, University of Tennessee Knoxville, Min H. Kao Department of Electrical Engineering and Computer Science

2022: Nanjing University School of Environment

2021: SEA virtual, Xiamen University School of Economics, EAERE virtual, IAEE virtual, AERE virtual

2020: SEA virtual, SURED virtual, TSE-EDF Energy Workshop

2019: SBCA European Conference Toulouse, EAAERE Beijing, EAERE Manchester, FAERE Winter Thematic Workshop Paris

2018: WCERE Gothenburg, SBCA Washington DC

2017: FAERE Thematic Workshop Paris, FAERE Nancy

TEACHING

ECON 300 Intermediate Microeconomics (2024 Fall, 2024 Spring, 2023 Fall, 2021 Fall)

ECON 342 Environmental Economics (2024 Spring, 2021 Fall)

ECON 402/502 Applied Economic Theory and Analysis (2025 Spring)

ECON 501 Microeconomic Theory (2024 Fall, 2023 Fall, 2022 Fall)

ECON 542 Topic in Environmental and Energy Economics (2022 Spring)

ECON 555 Seminar in Applied Economics (2025 Fall, 2025 Spring, 2024 Fall)

AWARDS AND HONORS

European Association of Environmental and Resource Economists (EAERE) Award for Best Doctoral Dissertation in Environmental and Resource Economics *2021*

PROFESSIONAL ACTIVITIES

Editorial board: *Applied Energy*, *Energy and AI*

Referee for: *Nature Climate Change, Nature Sustainability, Nature Communications, Journal of Environmental Economics and Management, Journal of the Association of Environmental and Resource Economists, Resource and Energy Economics, International Tax and Public Finance, Energy Economics, The Energy Journal, Energy Policy, Energy Resource & Social Science, Economic Theory, Mathematical Social Sciences, Sustainable Futures, Energy Strategy Reviews, Energy Reports, Energies*

Conference paper review: USAEE/IAEE 2023, 2024, 2025, 2026; APPAM 2022; AERE@SEA 2022; AERE 2025; AERE@SEA 2025; WCERE 2026; USAEE@ASSA 2026

Conference session organization: SEA 2023; USAEE Young Professional Best Paper Award Competition 2023, 2024, 2025

Conference organization committee: AERE Summer Conference 2025

Professional workshops: CSWEP CeMENT mentoring workshop for junior faculty 2024, New Energy Summer Summit 2025 at Dartmouth

UNM DEPARTMENTAL SERVICES

Seminar Committee (chair 2023-2026, member 2020-2022)

Core Exam Committee (member 2023-2026)

Graduate Committee (member 2021-2023)

Personnel Committee (member 2022-2023, 2025-2026)

Interview Committee (member Summer 2022)

Faculty advisor for the Economic Graduate Student Organization (2023-2026)