

Ivan Rudik

Address

462 Warren Hall
Cornell University
Ithaca, NY 14853

Contact Information

irudik@cornell.edu
<https://ivanrudik.com>

Academic Appointment

Cornell University: Dyson School of Applied Economics and Management

Associate Professor	2023–
Ruth and William Morgan Assistant Professor	2020–2023
Assistant Professor	2018–2020
Atkinson Center Faculty Fellow	2018–

University of Arizona

Visiting Associate Professor	2023–2024
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Iowa State University: Department of Economics

Assistant Professor	2015–2017
Center For Agricultural and Rural Development	2015–2017

Professional Appointment

White House Office of Science and Technology Policy

Chief Environmental Economist	2024–
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National Bureau of Economic Research

Research Associate	2024–
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CESifo Research Network

Affiliate Member	2022–
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Journal of the Association of Environmental and Resource Economists

Editorial Council	2021–2024
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Education

Ph.D., Economics	2015
University of Arizona	

M.A., Economics	2011
University of Arizona	

B.S., Economics	2010
Rochester Institute of Technology	

Publications

Hollingsworth, A., T. Jaworski, C. Kitchens, I. Rudik. Forthcoming. Economic Geography and Air Pollution Regulation in the United States. **Journal of Political Economy: Microeconomics**.

Rudik, I., D. Lemoine, A. Marcheva (randomized). Forthcoming. Equity and Efficiency in the Bipartisan Infrastructure Law's Adaptation Investments. **NBER Environmental and Energy Policy and the Economy**.

Hollingsworth, A., J.M. Huang, I. Rudik, N. Sanders. Forthcoming. A Thousand Cuts: Cumulative Lead Exposure Reduces Academic Achievement. **The Journal of Human Resources**.

Hollingsworth, A. and I. Rudik. 2021. The Effect of Leaded Gasoline on Elderly Mortality: Evidence from Regulatory Exemptions. **American Economic Journal: Economic Policy** 13(3):345–73.

Liang, Y., I. Rudik, E. Zou, A. Johnston, A. Rodewald, C. Kling. 2020. Conservation Co-Benefits from Pollution Regulation: Evidence from Birds. **Proceedings of the National Academy of Sciences** 117(49):30900–30906.

Lade, G. and I. Rudik. 2020. Costs of Inefficient Regulation: Evidence from the Bakken. **Journal of Environmental Economics and Management**: 102336.

Rudik, I. 2020. Optimal Climate Policy When Damages are Unknown. **American Economic Journal: Economic Policy** 12(2):340–73.

Hollingsworth, A. and I. Rudik. 2019. External Impacts of Local Energy Policy: The Case of Renewable Portfolio Standards. **Journal of the Association of Environmental and Resource Economists** 6(1):187–213.

Keiser, D., G. Lade, and I. Rudik. 2018. Air Pollution and Visitation at U.S. National Parks. **Science Advances** 4(7):eaat1613.

Rudik, I. 2018. Tradable Credit Markets for Intensity Standards. **Economic Modelling** 72:202–215.

Lemoine, D. and I. Rudik. 2017. Steering the Climate System: Using Inertia to Lower the Cost of Policy. **American Economic Review** 107(10):2947–57.

Lemoine, D. and I. Rudik. 2020. Steering the Climate System: Reply. **American Economic Review** 110(4):1238–41.

Lemoine, D. and I. Rudik. 2017. Managing Climate Change Under Uncertainty: Recursive Integrated Assessment at an Inflection Point. **Annual Review of Resource Economics** 9:117–142.

Burke, M., M. Craxton, C. D. Kolstad, C. Onda, H. Allcott, E. Baker, L. Barrage, R. Carson, K. Gillingham, J. Graff-Zivin, M. Greenstone, S. Hallegatte, W.M. Hanemann, G. Heal, S. Hsiang, B. Jones, D. L. Kelly, R. Kopp, M. Kotchen, R. Mendelsohn, K. Meng, G. Metcalf, J. Moreno-Cruz, R. Pindyck, S. Rose, I. Rudik, J. Stock, R. S. J. Tol. 2016. Opportunities for Advances in Climate Change Economics. **Science** 352(6283):292–93.

Working Papers

The Economic Effects of Climate Change in Dynamic Spatial Equilibrium (with Gary Lyn, Weiliang Tan, Ariel Ortiz-Bobea)

The Environmental Effects of Economic Production: Evidence from Ecological Observations (with Yuanning Liang and Eric Zou)

The Social Value of Hurricane Forecasts (with Renato Molina)

Synthesis of Evidence Yields High Social Cost of Carbon Due to Structural Model Variation and Uncertainties (with Frances Moore, Moritz Drupp, James Rising, Simon Dietz and Gernot Wagner)

Grants

Washington Center for Equitable Growth (\$55,000)	PI - 2023
National Oceanic and Atmospheric Administration (\$499,000)	Co-PI - 2023
National Oceanic and Atmospheric Administration (\$346,000)	Co-PI - 2020
Cornell Atkinson Academic Venture Fund (\$175,000)	PI - 2020
Cornell NYC Visioning Grant (\$74,200)	Co-PI - 2019
NBER Economics of Energy Markets Grant (\$23,000)	Co-PI - 2016

Seminars and Conferences

2024 Global Inequalities in Weather Forecasts, NBER EEPE Conference, UC Santa Barbara, ASSA (presenter, discussant)

2023 University of Arizona, Arizona State University, Richmond Fed Climate Miniconference, Northeast Workshop on Energy Policy and Environmental Economics, AERE, Stanford Preparing for Climate Change Conference, Kansas City Fed, St. John's University

2022 Arizona State University, Santa Clara University, University of Miami, Colorado Environmental Workshop, University of Colorado, University of Illinois, Indiana University, Georgetown, CESifo Area Conference on Energy and Climate Economics, Duke-NCSU-TREE, Oregon State, ASSA

2021 University of Gothenburg, Trade Spatial Economics and the Environment, IWH-CIREQ-GW Macroeconometric Workshop (discussant), University of Massachusetts, Philadelphia Fed, BIOECON, University of Arizona, San Francisco Fed Virtual Seminar on Climate Economics, Symposium on Natural Resource Governance for Young Scholars

2020 Penn State, Tennessee, WEAI Presidential Session (discussant), AERE, Global Open Seminar on Environmental Economics, NBER EEE Spring, Cornell Lab of Ornithology, ASSA (presenter, discussant)

2014–2019 UC Davis, Carnegie Mellon University, UC San Diego, The Workshop in Environmental Economics and Data Science, University of Connecticut, ASSA (discussant), Inter-American Development Bank, MIT CEEPR Fall Workshop, Heartland Environmental and Resource Economics Workshop, NBER EEE SI, Northeast Workshop on Energy Policy and Environmental Economics, Resources For the Future, Maryland AREC, ASSA, Minnesota APEC, East Carolina University, Cornell Dyson, EAERE, AERE, AAEA, Indiana University SPEA, Economics of Water and Energy Workshop (discussant), Colorado School of Mines, CU Environmental and Resource Economics Workshop, AERE, Fourth Annual Canadian Ph.D. and Early Career Workshop in Environmental Economics, NBER Economics of Energy Markets, UC Berkeley ARE, Stanford Research Frontiers in the Economics of Climate Change Workshop, The Occasional Workshop in Environmental and Resource Economics, NBER EEE SI, AERE, Iowa State University, University of Miami, Heartland Environmental and Resource Economics Workshop (poster), CU Environmental and Resource Economics Workshop, Western Economics Association Conference

Service

Refereeing

Agricultural Economics, American Economic Journal: Applied Economics, American Economic Journal: Economic Policy, American Economic Journal: Macroeconomics, American Economic Review, American Economic Review: Insights, American Journal of Agricultural Economics, Climatic Change, Economics and Human Biology, Economic Journal, Energy Economics, Energy Journal, Environmental Research Letters, Environmental and Resource Economics, European Economic Review, Journal of African Economies, Journal of the Association of Environmental and Resource Economists, Journal of Economic Theory, Journal of Environmental Economics and Management, Journal of the European Economic Association, Journal of Health Economics, Journal of Policy Analysis and Management, Journal of Political Economy, Journal of Political Economy: Microeconomics, Journal of Public Economics, Nature: Climate Change, Nature: Communications, Oxford Bulletin of Economics and Statistics, Proceedings of the National Academy of Sciences, Quarterly Journal of Economics, Review of Economic Dynamics, Review of Economics and Statistics, Review of Economic Studies, Review of Environmental Economics and Policy, Science Advances, Society and Natural Resources

Grant Reviewing

National Science Foundation, Washington Center for Equitable Growth

Professional

National Academies Climate-Macro Roundtable Executive Committee	2024–2025
AERE Summer Meeting Reviewer	2023
AERE Professional Development Series Panelist	2021
AAEA Annual Meeting Reviewer	2017, 2022

University

Computational Tools for Social Scientists Workshop	2020–2021
Graduate Studies Committee	2018–2023

Teaching

Cornell University

AEM 4510: Environmental Economics (undergraduate)	2021–
AEM 4515: Business and Economics of Energy (undergraduate)	2018–2019
AEM 6510: Environmental and Resource Economics (masters)	2018–2021
AEM 7130: Dynamic Optimization (Ph.D.)	2019–
AEM 7852: SEERE Seminar (workshop)	2018–

Iowa State University

ECON 101: Principles of Microeconomics (undergraduate)	2016–2017
ECON 380: Environmental and Resource Economics (undergraduate)	2017
ECON 509: Applied Numerical Methods in Economics (masters/Ph.D.)	2016–2017

The University of Arizona

BNAD 301 Online: Global and Financial Economics and Strategies	2013, 2014
ECON 323: The Economics of Sports	2013
ECON 373: Environmental Economics	2012, 2014

Awards

PERC Lone Mountain Fellow	2022
Cornell Center for Social Science Fellowship	2022
Cornell Dyson Outstanding Early Career Achievement Award	2021

Advising (Υ *denotes primary advisor*)

Ph.D.

Current: *Virginia Callison* Υ ; *Luc Esprabens* Υ ; *Tianzi Liu* Υ ; *Antonia Marcheva* Υ ; *Weiliang Tan* Υ ; Dean Arnold; Bingyan Dai; Emiliano Harris; Yurou He; Jack Ma; Zebang Xu; Yongfan Zhao

2025: *Mike Huang* Υ (*Freddie Mac*)

2023: Hui Zhou (Rhode Island Ag Econ)

2022: Muye Chen (Amazon); Deyu Rao (Hong Kong University of Science and Technology); Louis Sears (U.S. Department of Transportation)

2021: *Diego Cardoso*^Υ (*Purdue Ag Econ*); Yuanning Liang (Peking University); Lin Yang (Hong Kong University of Science and Technology)

Masters

2023: *Virginia Callison*^Υ (*Cornell Dyson Ph.D.*), Tianzi Liu (Cornell Dyson Ph.D.), Tianjiao Mei (Cornell Dyson Ph.D.)

2022: *Xuquan Ma*^Υ (*Berkeley Health Policy Ph.D.*), Gemma Del Rossi (UCSB Bren Ph.D.), Ziqian Byron Song (IFPRI), Henry Williams (Colorado State DARE Ph.D.), Delta Zhang, Terry Zhang (Cornell Dyson Ph.D.)

2021: *Haotian Wu*^Υ (*Ohio State AEDE Ph.D.*); Louis Chua (Hawaii DNRE Ph.D.); Visen Liu

2020: *Jinge Li*^Υ (*Yale Environment Ph.D.*); Marley Bonacquist-Currin (Cornell DNRE Ph.D.); Yikuan Ji (Maryland AREC Ph.D.)

2019: Congyan Han (Wisconsin Urban Land Ph.D.)

Postdoc

2023: Chen-Ti Chen (Ohio State AEDE)

Consulting

World Bank

2022–2024

Outreach Publications

Keiser, D., G. Lade, and I. Rudik. 2018. Ozone Pollution in US National Parks is Nearly the Same as in Large Cities. **The Conversation**.

Lade, G. and I. Rudik. 2017. Efficient Environmental Regulation in the Unconventional Oil Industry. **Center for Agricultural and Rural Development Agricultural Policy Review**.

Other

Professional Associations: AEA, AERE

Citizenship: U.S.

Languages: English (native), American Sign Language (intermediate)

Last Updated: November 16, 2024