

Joel Ferguson

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Global Policy Lab
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EMPLOYMENT

Stanford University

July 2024 – Present

Global Policy Lab Postdoctoral Fellow
Environmental Social Sciences Department
Supervisor: Solomon Hsiang

University of California, Berkeley

August 2023 – June 2024

Global Policy Lab Postdoctoral Fellow

EDUCATION

University of California, Berkeley

August 2018 – August 2023

Agricultural and Resource Economics PhD
Fields: Development Economics, Agricultural Economics, Environmental Economics
Designated Emphasis (PhD minor): Development Engineering
Dissertation Committee: Marco Gonzalez-Navarro (Chair), Edward Miguel, Maximilian Auffhammer

Tulane University

August 2012 – May 2016

Economics BS

JOURNAL ARTICLES AND CONFERENCE PROCEEDINGS

“Will Wealth Weaken Weather Wars?” (2024) *AEA Papers and Proceedings*, 114. Marshall Burke, Joel Ferguson, Solomon Hsiang, and Edward Miguel

“Survey of open science practices and attitudes in the social sciences.” (2023) *Nature Communications* 14, 5401. Joel Ferguson, Rebecca Littman, Garret Christensen, Elizabeth Levy Paluck, Nicholas Swanson, Zenan Wang, Edward Miguel, David Birke, and John-Henry Pezzuto.

“Incorporating High-Frequency Weather Data into Consumption Expenditure Predictions.” (2021) *NeurIPS Machine Learning for Development 2021 Proceedings*. Anders Christensen, Joel Ferguson, and Simón Ramírez Amaya.

“Marketing and Technology Adoption and Diffusion.” (2020) *Applied Economics: Perspectives & Policy* 42 (1). Amir Heiman, Joel Ferguson, and David Zilberman.

WORKING PAPERS

“New Evidence on the Economics of Climate and Conflict.” (forthcoming) *Handbook on the Economics of Conflict*. Marshall Burke, Joel Ferguson, Solomon Hsiang, and Edward Miguel

"Irrigation Infrastructure and Satellite-Measured Land Use Impacts: Evidence from the Senegal River Valley" (with Abdoulaye Cisse, Alain De Janvry, Marco Gonzalez-Navarro, Samba Mbaye, Elisabeth Sadoulet, and Mame Mor Anta Syll)

"Reassessing China's Rural Reforms: The View from Outer Space" (with Oliver Kim)

"How Large are the Environmental Benefits of Sustainable Agriculture? Evidence from Mexico" (with Bram Govaerts)

WORKS IN PROGRESS

"Downscaling Aggregate Maize Yields Using Satellite Imagery and Machine Learning" (with James Sayre and Kangogo Sogomo)

"Re-centered Neural Networks for Non-parametric Design Based Inference of Climate Impacts"

"Conflict and Agricultural Land Abandonment in Africa"

"The Impacts of Major Storms on Electricity Availability" (with Renato Molina and Christopher Parmeter)

"Privilège Exorbitant? The Developmental Effects of the CFA Franc" (with Abdoulaye Cisse and Oliver Kim)

"Markets and Climate Change Adaptation: Evidence From Minnesota and Wisconsin Farmland Transactions"

OTHER PUBLICATIONS

"How Much Will Air Quality Improve Thanks to the San Joaquin Valley Agricultural Burning Ban?" (2023) *ARE Update* 26(4). Joel Ferguson

"Energy Prices, the Financial Crisis, and their Implications for Land Policies in California." (2019) *ARE Update* 22(6). JunJie Wu, Steven Sexton, Joel Ferguson, and David Zilberman

GRANTS AND FELLOWSHIPS

STEG PhD Research Grant (w/ Oliver Kim, 14,989 GBP)	2022
Fisher Center PhD Research Grant (w/ Oliver Kim, \$15,000)	2022
Clausen Center PhD Research Grant (w/ Oliver Kim, \$5,000)	2022
CEGA Development Challenge Grant (w/ Oliver Kim, \$14,000)	2021
InFEWS NSF Fellowship Funding (\$34,000 + 1 year tuition & fees)	2020
Federal Language and Area Studies Fellowship (Brazil; \$10,000)	2014

WORK EXPERIENCE

Economist Intern at Amazon	June 2022 – September 2022
Stanford Law Empirical Research Fellowship	October 2016 – July 2018

RESEARCH EXPERIENCE

Research Assistant for Solomon Hsiang	January 2023 – August 2023
Research Assistant for Elisabeth Sadoulet	January 2023 – August 2023,

	January 2020 – August 2020
Research Assistant at BITSS	January 2022 – May 2022, January 2020 – August 2020
Research Assistant for David Zilberman	June 2019 – December 2019
Research Assistant for Edward Miguel	May 2019 – August 2019
Research Fellow (full time) For Daniel Kessler	November 2016 – July 2018
Research Assistant for Sean Higgins	August 2016 – June 2017

TEACHING EXPERIENCE

TA for ARE 210: PhD Probability and Statistics	Fall 2021, 2022
TA for ARE 213: PhD Applied Econometrics and Causal Inference	Fall 2021, 2022

AWARDS AND HONORS

InFEWS Fellowship	2019
Summa Cum Laude Graduation Honors	2016
Tulane Undergraduate Mathematical Economics Award	2016
Phi Beta Kappa Honor Society	2016

PRESENTATIONS AND WORKSHOPS

2024

Ohio State University Agricultural, Environmental, and Development Economics Seminar; Population Association of America Annual Meeting; Agricultural and Applied Economics Association Annual Meeting; SPIA Fest; International Conference of Agricultural Economists; Urban Economics Association North American Meeting; Southern Economics Association Annual Meeting

2023

Heartland Environmental and Resource Economics Workshop; The Workshop on Environmental Economics and Data Science; Measuring Development; American Geophysical Union Annual Meeting; North East Universities Development Consortium

2022

The Workshop on Environmental Economics and Data Science; Machine Learning in Economics Summer Institute; CEGA Global Workshop

2021

NeurIPS Machine Learning for Development; Association of Environmental and Resource Economists Summer Conference; CGIAR SPIA Webinar Series; Pacific Conference for Development Economics; Online Summer Workshop in Environmental, Energy, and Transportation Economics

2020

Young Economist Symposium; Giannini Foundation of Agricultural and Resource Economics Student Conference

SERVICE

Environmental Economics and Policy Honors Thesis Co-Advisor for Yuli (Shirly) Xue	2022-2023
Giannini Agricultural and Resource Economics Student Conference Co-Organizer	2022
Berkeley Environmental Economics and Policy Students Mentor	2021-2022
Economists for Equity at Berkeley High School Outreach Committee	2021-2022
UC Berkeley ARE Faculty Search Committee Student Representative	2021-2022

UC Berkeley ARE PhD Admissions Committee	2020-2021
UC Berkeley ARE Diversity, Equity, and Inclusion Undergraduate Outreach Subcommittee	2020-2022
InFEWS Student Council	2020-2022

REFEREING

PNAS, American Journal of Agricultural Economics, Journal of Development Economics, Journal of Health Economics, Climate Change Economics

SKILLS

Python, R, Google Earth Engine, QGIS, Stata, SQL/POSTGRES, \LaTeX

PROFESSIONAL AFFILIATIONS

Association of Environmental and Resource Economists, Agricultural and Applied Economics Association, American Geophysical Union