

## Joel Ferguson

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University of California, Berkeley  
430C California Memorial Stadium  
Berkeley, CA 94720

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## EMPLOYMENT

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### University of California, Berkeley

August 2023 – Present

Global Policy Lab Postdoctoral Fellow  
Supervisor: Solomon Hsiang

## EDUCATION

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### University of California, Berkeley

August 2018 – August 2023

Agricultural and Resource Economics PhD  
Fields: Development Economics, Agricultural Economics, Environmental Economics  
Designated Emphasis: 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

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**“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

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“Reassessing China’s Rural Reforms: The View from Outer Space” (with Oliver Kim)

“How Sustainable is Sustainable Agriculture? Evidence from Mexico” (with Bram Govaerts)

“Will Wealth Weaken Weather Wars?” (with Marshall Burke, Solomon Hsiang, and Edward Miguel)

“New Evidence on the Economics of Climate and Conflict” (with Marshall Burke, Solomon Hsiang, and Edward Miguel)

## WORKS IN PROGRESS

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"Irrigation and Long-Run Development in the Senegal River Valley" (with Mame Mor Anta Syll, Abdoulaye Cisse, Alain De Janvry, Marco Gonzalez-Navarro, Samba Mbaye, and Elisabeth Sadoulet)

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

"Conflict and Land Abandonment in Africa"

## OTHER PUBLICATIONS

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

**"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

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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

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

## RESEARCH EXPERIENCE

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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

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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

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

## PRESENTATIONS AND WORKSHOPS

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### 2023

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

### 2022

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

### 2021

NeurIPS Machine Learning for Development, AERE 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

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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

## REFEREEING

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Journal of Health Economics, Journal of Development Economics

## SKILLS

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

## PROFESSIONAL AFFILIATIONS

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