

Solomon Hsiang

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Current Primary Appointment:

7/2024-
Professor of Global Environmental Policy
Principal Investigator, Global Policy Laboratory (<http://globalpolicy.science>)
Stanford Doerr School of Sustainability
Stanford University

Other Appointments / Affiliations:

1/2024- *Co-Editor, Handbook of Climate Change Economics*
5/2016- *Co-Director, Climate Impact Lab* (<http://impactlab.org>)
9/2016- *Research Associate, National Bureau of Economic Research*
12/2018- *Research Affiliate, Center for Economic Policy Research*
12/2018- *Explorer, National Geographic Society*

Previous Primary Appointments:

4/2023- 4/2024 *Chief Environmental Economist*
Office of Science and Technology Policy
Executive Office of the President, White House

7/2022-6/2024 *Thomas and Alison Schneider Chair in Public Policy*
7/2018-7/2022 *Chancellor's Professor of Public Policy*
7/2015- 6/2018 *Chancellor's Associate Professor of Public Policy*
8/2013-6/2015 *Assistant Professor, Goldman School of Public Policy*
1/2014-6/2014 *Visiting Scholar, Energy Institute at Haas*
University of California, Berkeley

2/2019-6/2019 *Gloria and Richard Kushel Visiting Scholar*
Center on Food Security and the Environment / Freeman Spogli Institute

9/2018-1/2019 *Noosheen Hashemi Visiting Scholar*
Center on Global Poverty & Development / Stanford Institute for Econ. Policy Research
Stanford University

8/2011-7/2013 *Post-Doctoral Research Fellow in Science, Technology & Environmental Policy*
Woodrow Wilson School of Public & International Affairs
Princeton University

5/2013-9/2016 *Faculty Research Fellow*
1-7/2011 *Post-Doctoral Research Fellow in Applied Econometrics*
National Bureau of Economic Research

Education:

Columbia University
Ph.D. Sustainable Development (2011), *with distinction*

Massachusetts Institute of Technology
B.S. Earth, Atmospheric and Planetary Science (2006), thesis awarded *Goetze Prize*
B.S. Urban Studies and Planning (2006), thesis awarded *Outstanding Thesis Award*

Other Service Appointments:

2024-2025 Statistical Advisory Panel for the Human Development Report
United Nations Development Program

2021-2023 Chapter 19: Economics, Lead Author
Fifth National Climate Assessment of the US Global Change Research Program
2021-2023 Economic Advisory Council
Millennium Challenge Corporation
2022-2023 Roundtable on Macroeconomics and Climate-related Risks and Opportunities
National Academies of Sciences, Engineering, and Medicine

Journal Articles & Circulating/Submitted Working Papers:

Estimating global impacts to agriculture from climate change accounting for adaptation

Hultgren, A, T Carleton, M Delgado, DR Gergel, M Greenstone, T Houser, S Hsiang, A Jina, RE Kopp, SB Malevich, KE McCusker, T Mayer, I Nath, J Rising, A Rode, J Yuan (*forthcoming*)

Global Economic Impacts of Climate Change: An Empirical Perspective

S Hsiang, Annual Review of Economics (*forthcoming*)

A machine-learning pipeline for merging and georeferencing very large archives of historical aerial photographs

Noda, E, LY Huang, T Chong, S Jain, A Madestam, A Tompsett, H Druckenmiller, S Hsiang (*forthcoming*)

Mortality Caused by Tropical Cyclones in the United States

Young, R, S Hsiang, *Nature* (2024)

Data anomalies cause unprecedented estimate for the economic commitment of climate change

Bearpark, T, D Hogan, S Hsiang (2024)

New Evidence on the Economics of Climate and Conflict

M Burke, J Ferguson, SM Hsiang, E Miguel, *NBER Working Paper 33040* (2024)

Are we adapting to climate change?

Burke, M, MZahid, M Martins, C Callahan, R Lee, T Avirmed, S Heft-Neal, M Kiang, S Hsiang, D Lobell, *NBER Working Paper 32985* (2024)

Mainstreaming nature in US federal policy

Tallis, H, EP Fenichel, L Petes, S Hsiang, PS Levin, H Levy, J Lubchenco, *Science* (2024)

Global Health and Economic Impacts of Behavior Change During the First Wave of the COVID-19 Pandemic

Tseng, J, K Coy, C Ilin, A Ewing, T Chong, S Marks, I Bolliger, N Mejia Gonzalez, K Bell, A Hakim, S Hsiang (2024)

Quantifying climate change loss and damage consistent with a social cost of greenhouse gases

Burke, M, M Zahid, N Diffenbaugh, S M Hsiang, *NBER Working Paper 31658* (2023)

Simultaneous measurement of health damage from transboundary and domestic air pollution in mixture

Lee, J, AJ Wilson, S Hsiang (2023)

DSCIM-Coastal v1. 1: an open-source modeling platform for global impacts of sea level rise

Depsky, N, I Bolliger, D Allen, JH Choi, M Delgado, M Greenstone, A Hamidi, T Houser, RE Kopp, S Hsiang, *Geoscientific Model Development* (2023)

Global high-resolution estimates of the United Nations Human Development Index using satellite imagery and machine-learning

Sherman, L, J Proctor, H Druckenmiller, H Tapia, S Hsiang, *NBER Working Paper 31044* (2023)

Valuing the Global Mortality Consequences of Climate Change Accounting for Adaptation Costs and Benefits

Carleton, T, A Jina, M Delgado, M Greenstone, T Houser, S Hsiang, A Hultgren, R Kopp, K McCusker, Kelly, I Nath, J Rising, A Rode, HK Seo, J Simcock, A Viaene, J Yuan, Jiacan, A Zhang, *Quarterly Journal of Economics* (2022)

The Welfare Economics of a Data Driven Social Cost of Carbon

Nath, I, KE McCusker, I Bolliger, T Carleton, M Delgado, M Greenstone, T Houser, S Hsiang, A Hultgren, A Jina, RE Kopp, J Rising, A Rode (2022)

Labor disutility in a warmer world: The impact of climate change on the global workforce

Rode, A, RE Baker, T Carleton, A D'Agostino, M Delgado, T Foreman, DR Gergel, M Greenstone, T Houser, S Hsiang, A Hultgren, A Jina, RE Kopp, SB Malevich, KE McCusker, I Nath, M Pecenco, J Rising, J Yuan (2022)

Harmonized nitrogen and phosphorus concentrations in the Mississippi/Atchafalaya River Basin from 1980 to 2018

Krasovich, E, P Lau, J Tseng, J Longmate, K Bell, S Hsiang, *Scientific Data* (2022)

A Distribution of Human Attention to Moments in Time

Annan-Phan, S, L Biardeau, S Hsiang – *Revisions requested* (2022)

Estimating a Social Cost of Carbon for Global Energy Consumption

Rode, A, T Carleton, M Delgado, M Greenstone, T Houser, S Hsiang, A Hultgren, A Jina, R Kopp, K McCusker, I Nath, J Rising, J Yuan, *Nature* (2021)

A Generalizable and Accessible Approach to Machine Learning with Global Satellite Imagery

Rolf, E, J Proctor, T Carleton, I Bolliger, V Shankar, M Ishihara, B Recht, S Hsiang, *Nature Communications* (2021)

Empirically valuing natural capital

Bell, K, S Sum, J Longmate, J Tseng, S Hsiang (2021)

Using Satellite Imagery and Deep Learning to Evaluate the Impact of Anti-Poverty Programs

Huang, LY, S Hsiang, M Gonzalez-Navarro. arXiv preprint arXiv:2104.11772 (2021).

Public mobility data enables covid-19 forecasting and management at local and global scales

Ilin, C, S Annan-Phan, XH Tai, S Mehra, S Hsiang, J Blumenstock, *Scientific Reports* (2021)

Combined modeling of US fluvial, pluvial, and coastal flood hazard under current and future climates

Bates, P.D., Quinn, N., Sampson, C., Smith, A., Wing, O., Sosa, J., Savage, J., Olcese, G., Neal, J., Schumann, G. and Giustarini, L., *Water Resources Research* (2021)

The effect of large-scale anti-contagion policies on the COVID-19 pandemic

Hsiang, S, D Allen, S Annan-Phan, K Bell, I Bolliger, T Chong, H Druckenmiller, L.Y. Huang, A Hultgren, E Krasovich, P Lau, J Lee, E Rolf, J Tseng, T Wu, *Nature* (2020). <https://doi.org/10.1038/s41586-020-2404-8>

The COVID-19 lockdowns: a window into the Earth System

Diffenbaugh, Field, Appel, Azevedo, Baldocchi, Burke, Burney, Ciais, Davis, Fiore, Fletcher, Hertel, Horton, Hsiang, Jackson, Jin, Levi, Lobell, McKinley, Moore, Montgomery, Nadeau, Pataki, Randerson, Reichstein, Schnell, Seneviratne, Singh, Steiner, Wong-Parodi, *Nature Reviews Earth & Environment* (2020). DOI: 10.1038/s43017-020-0079-1

Reply to: Temporal displacement, adaptation and the effect of climate on suicide rates

Burke, M, F Gonzalez, P Baylis, S Heft-Neal, C Baysan, S Basu, S Hsiang, *Nature Climate Change* (2020) DOI: 10.1038/s41558-020-0792-2

Destructive Behavior, Judgment, and Economic Decision-making Under Thermal Stress

Almås, I, M Auffhammer, T Bold, I Bolliger, A Dembo, S Hsiang, S Kitamura, E Miguel, R Pickmans, *NBER Working Paper No. 25785* (2019)

The Distribution of Environmental Damages

Hsiang, S, P Oliva, WR Walker, *Review of Environmental Economics and Policy* (2019) DOI: 10.1093/reep/rey024

Non-economic factors in violence: Evidence from organized crime, suicides and climate in Mexico

Baysan, Burke, Gonzalez, Hsiang, Miguel, *Journal of Economic Behavior & Organization* (2019) DOI: 10.1016/j.jebo.2019.10.021

Strengthened scientific support for the Endangerment Finding for atmospheric greenhouse gases

Duffy, P, C Field, N Diffenbaugh, S Doney, Z Dutton, S Goodman, L Heinzerling, S Hsiang, D Lobell, L Mickley, S Myers, S Natali, C Parmesan, S Tierney, AP Williams, *Science* (2019) DOI: 10.1126/science.aat5982

Spatial Correlation, Trade, and Inequality: Evidence from the Global Climate

Dingle, J, K Meng, S Hsiang, *NBER Working Paper No. 25447* (2019)

An Economist's Guide to Climate Change Science

Hsiang, S, R Kopp, *Journal of Economic Perspectives* (2018) DOI: 10.1257/jep.32.4.3

Accounting for Unobservable Heterogeneity in Cross Section Using Spatial First Differences

Druckenmiller, H, S Hsiang *NBER Working Paper No. 25177* (2018)

Estimating the global agricultural effects of geoengineering using volcanoes

Proctor*, J, S Hsiang*, J Burney, M Burke, W Schlenker, *Nature* (2018) DOI: 10.1038/s41586-018-0417-3 (* equal contribution)

Warming increases suicide rates in the United States and Mexico

Burke, M, F Gonzalez, P Baylis, S Heft-Neal, C Baysan, S Basu, S Hsiang, *Nature Climate Change* (2018) DOI: 10.1038/s41558-018-0222-x

The Marginal Product of Climate

Deryugina, T, S Hsiang, *NBER Working Paper No. 24072* (2017)

Temperature and Human Capital in the Short- and Long-Run

Graff Zivin, J, S Hsiang, M Neidell, *Journal of the Association of Environmental and Resource Economists* (2017) DOI: dx.doi.org/10.1086/694177

Estimating economic damage from climate change in the United States

Hsiang*, S, R Kopp*, A Jina*, J Rising*, M Delgado, S Mohan, DJ Rasmussen, R Muir-Wood, P Wilson, M Oppenheimer, K Larsen, T Houser, *Science* (2017) 356(6345):1362-1369 (* equal contribution)

Social and economic impacts of climate

Carleton*, T, S Hsiang*, *Science* (2016) DOI: 10.1126/science.aad9837 (* equal contribution)

Does legalization reduce black market activity? Evidence from a global ivory experiment and elephant poaching data

Hsiang, S, N Sekar, *NBER Working Paper No. 22314* (2016)

Climate Econometrics

Hsiang, S, *Annual Review of Resource Economics* (2016) DOI: 10.1146/annurev-resource-100815-095343

Potentially Extreme Population Displacement and Concentration in the Tropics Under Non-Extreme Warming

Hsiang, S, AH Sobel, *Scientific Reports* (2016) DOI:10.1038/srep25697

Conflict in a Changing Climate

Carleton, T, S Hsiang, M Burke, *European Physical Journal Special Topics* (2016) DOI:10.1140/epjst/e2015-50100-5

Opportunities for advances in climate change economics

Burke, M., M. Craxton, C. D. Kolstad, C. Onda, H. Allcott, E. Baker, L. Barrage, R. Carson, K. Gillingham, J. Graf-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, *Science* (2016) 352(6283):292-293

Global non-linear effect of temperature on economic production

Burke*, M., S.M. Hsiang*, E. Miguel, *Nature* (2015) DOI: 10.1038/nature15725 (* equal contribution)

Climate and conflict

Burke, M., S.M. Hsiang, E. Miguel, *Annual Review of Economics* (2015) DOI:10.1146/annurev-economics-080614-115430

The causal effect of environmental catastrophe on long-run economic growth: Evidence from 6,700 cyclones

Hsiang, S.M., A.S. Jina, *NBER working paper No. 20352* (2014) – revisions requested, *J. of Political Economy*

Does the Environment Still Matter? Daily Temperature and Income in the United States

Deryugina, T., S.M. Hsiang, *NBER Working Paper No. 20750* (2014)

Nonlinear permanent migration response to climatic variations but minimal response to disasters

Bohra-Mishra, P., M. Oppenheimer, S.M. Hsiang, *Proceedings of the National Academy of Sciences* (2014)

Reconciling disagreement over climate–conflict results in Africa

Hsiang, S.M., K.C. Meng, *Proceedings of the National Academy of Sciences* (2014)

Reconciling climate-conflict meta-analyses: Reply to Buhaug et al.

Hsiang, S.M., M. Burke, E. Miguel, *Climatic Change* (2014) DOI: 10.1007/s10584-014-1276-z

Quantifying the Influence of Climate on Human Conflict

Hsiang*, S.M., M. Burke*, E. Miguel, *Science*, **341** (2013) 1235367 (* equal contribution)

Climate, Conflict and Social Stability: What does the evidence say?

Hsiang, S.M., M. Burke, *Climatic Change*, (2013) DOI 10.1007/s10584-013-0868-3

Using Weather Data and Climate Model Output in Economic Analyses of Climate Change

Auffhammer, M., S.M.Hsiang, W. Schlenker, A.H. Sobel. *Review of Environmental Economics and Policy*, **7** (2013) 181–198

Destruction, Disinvestment, and Death: Economic and Human Losses Following Environmental Disaster

Anttila-Hughes, J., S.M. Hsiang. *Mimeo* (2012)

Adaptation to Cyclone Risk: Evidence from the Global Cross-Section

Hsiang, S.M., D. Narita. *Climate Change Economics: Special Issue on Adaptation*, **3** (2012)

Civil conflicts are associated with the global climate

Hsiang, S.M., K.C. Meng, M.A. Cane. *Nature*, **476** (2011) 438-441

Temperatures and cyclones strongly associated with economic production in the Caribbean and Central America

Hsiang, S.M. *Proceedings of the National Academy of Sciences*, **107** (2010) 15367-15372

Books:

Handbook of the Economics of Climate Change (1st Edition, Volume 1)

Editors: Barrage, L, S Hsiang, *Elsevier* (2024)

Economic Risks of Climate Change: An American Prospectus

Houser, T., S.M. Hsiang, R. Kopp, K. Larson, M. Delgado, A.S. Jina, M. Mastreandrea, S. Mohan, R. Muir-Woods, D.J. Rasmussen, J. Rising, P. Wilson, *Columbia University Press* (2015)

Reviewed Conference Papers:

Will Wealth Weaken Weather Wars?

Burke, M, J Ferguson, S Hsiang, E Miguel, *American Economic Review* (2024) Papers & Proceedings

Ground Control to Major Tom: the importance of field surveys in remotely sensed data analysis

Bolliger, I., T Carlton, S Hsiang, J Kadish, J Proctor, E Rolf, B Recht, V Shankar, (2017) *Bloomberg Data for Good*, New York

Tropical Economics

Hsiang, S.M., K.C. Meng, *American Economic Review* (2015) Papers & Proceedings, 105(5): 257–261

Geography, Depreciation, and Growth

Hsiang, S.M., A.S. Jina, *American Economic Review* (2015) Papers & Proceedings, 105(5): 252-256

Empirically calibrating damage functions and considering stochasticity when integrated assessment models are used as decision tools

Kopp, R.E., S.M. Hsiang, M. Oppenheimer (2013) International Conference on Climate Change Effects, Potsdam.

Reviewed Reports & Book Chapters:

Fifth National Climate Assessment: Chapter 19. Economics

Hsiang, S, S Greenhill, J Martinich, M Grasso, R Schuster, L Barrage, D Diaz, H Hong, C Kousky, T Phan, MC Sarofim, W Schlenker, B Simon, S Sneeringer (2023)

Policymaking for Sustainable Development 2.0

Bell, K, J Tseng, S Hsiang (2020) in: UN Human Development Report

Tropical Cyclones: From the Influence of Climate to their Socio-Economic Impacts

Camargo, S., S.M. Hsiang, in "Extreme Events: Observations, Modeling, and Economics", Eds. Chavez, M., M. Ghil, J.U. Fucugauchi, Wiley (2015) DOI 10.1002/9781119157052.ch18.

Chapter 18: Detection and Attribution of Observed Impacts

Cramer, W, GW Yohe, et al. (2014). In: *Climate Change 2014: Impacts, Adaptation, and Vulnerability*. Ed. by V Barros, C Field, et al. Cambridge, UK: Cambridge University Press.

Chapter 19: Emergent Risks and Key Vulnerabilities

Oppenheimer, M, M Campos, R Warren, et al. (2014). In: *Climate Change 2014: Impacts, Adaptation, and Vulnerability*. Ed. by V Barros, C Field, et al. Cambridge, UK: Cambridge University Press.

Comments & Short Mimeos:

Climate and conflict: no stigma (Correspondence)

Hsiang, S, M Burke, *Nature* (2018) DOI: 10.1038/d41586-018-03798-x

Ivory crisis: Growing no-trade consensus (Letter)

Sekar, N, W Clark, A Dobson, P Coelho, P Hannam, R Hepworth, S Hsiang, P Kahumbu, P Lee, K Lindsay, C Lopes Pereira, S Wasser, K Nowak, *Science* (2018) DOI: 10.1126/science.aat1105

Analysis of Statistical Power Reconciles Climate-Conflict Results in Africa

Hsiang, S.M., M. Burke, E. Miguel, M. Cane, K. Meng, *CEGA working paper* (2015)

Temperature and Violence (Correspondence)

Cane, M.A., E. Miguel, M. Burke, S.M. Hsiang, D.B. Lobell, K.C. Meng, S. Satyanath, *Nature Climate Change* (2014) **4**, 234–235

Reconciling temperature-conflict results in Kenya

Hsiang, S.M., M. Burke, E. Miguel, *CEGA working paper* (2013)

Visually-Weighted Regression

Hsiang, S.M (2012)

Written Testimony:

The Costs of Climate Change: Risks to the U.S. Economy and the Federal Budget

United States House Committee on the Budget, June 10, 2019

Evidence Should Be Used in Global Management Of Endangered Species: A Reply To The Cites Technical Advisory Group

Convention On International Trade in Endangered Species of Wild Fauna and Flora; Seventeenth meeting of the Conference of the Parties, Johannesburg, South Africa, 24 September-5 October 2016 (with N. Sekar)

Awards & Fellowships:

2020 President's Medal, Geological Society of America
2020 Andrew Carnegie Fellow, Carnegie Corporation of New York
2019 AI for the Earth Innovation Grant Fellow, Microsoft Corporation & National Geographic Society
2019 Kushel Visiting Scholar, Center on Food Security and the Environment, Stanford University
2018 Hashemi Visiting Scholar, Center on Global Poverty & Development, Stanford University
2016 Kavli Fellow, National Academy of Sciences
2014 30 Under 30, Forbes
2013 Science for Solutions Award, American Geophysical Union
2009 Columbia University President and Provost Award
2008 Science to Achieve Results Fellow, Environmental Protection Agency
2007 Integrative Graduate Educ. & Research Traineeship Fellow, National Science Foundation
2006 Goetze Prize for Thesis in Earth, Department of Atmospheric and Planetary Sciences, MIT
2006 Outstanding Thesis Award, Department of Urban Studies and Planning, MIT

Grants:

2022 “Climate change and migration” Meta (\$24k)
2022 “Remote sensing HDI” UNDP
2020 “A New Approach to Measuring the Wealth of Nations” Riksbankens Jubileumsfond (\$6M w. A. Madestam, A. Tompsett)
2021 “Innovative Measurement Tools for Resource-Poor Settings” USAID (\$500K w. T. Carleton)

- 2021-22 “Equity in Environmental and Energy Economics” (\$300k w. M. Fowlie & R. Walker)
- 2018-19 “The Social cost of carbon” Alfred P. Sloan Foundation (\$600k w. M. Greenstone, B. Kopp, A. Jina)
- 2016 “Labor Productivity in a Warmer World” Inst. for Research on Labor and Employment (\$12,436)
- 2016-19 “Quantitative Sustainable Development” (\$1.5M)
- 2016 “Optimal Use of Spatial Information in Crowd-Sourced Meta-Analysis of Understudied Populations” CEQA-BITSS-SSMART (\$30,000 w. James Rising)
- 2015-17 “Food Security and Social Stability in Africa” International Growth Center (£99,091. w. M. Greenstone, A. Jina, A. Rode)
- 2015-16 “Developing Tools for the Security, Conflict Prevention and Humanitarian Assistance Communities” Skoll Global Threats Fund (\$200,000. w. T. Houser)
- 2015 “Coordinating Leisure” Institute for Research on Labor and Employment (\$15,141)
- 2015-16 Weiss Family Program Fund for Research in Development Economics (\$25,507. w. J. Magruder)
- 2015-20 “Environment and Society: Data Science for the 21st century” NSF Research Traineeship program (\$2,790,000. Co-Investigator)
- 2015 “Deploying Interdisciplinary Data Science to Understand the Global Impact of Climate Change” Social Science Matrix Prospecting Seminar
- 2015 “Climate and global poverty” (\$50,000. Co-investigator with M. Burke)
- 2013-14 “Econometric assessment of climate change impacts in the USA” (\$143,908)
- 2013-14 “Quantifying agricultural adaptation to climate change” (\$25,500. w. E. Miguel & M. Burke)
- 2011 Center for International Business Education & Research Grant (with Jina, A. & von der Goltz, J.)
- 2010 Center for International Business Education & Research Grant (with Anttila-Hughes J. & Narita, D.)

Selected Opinion & Popular Writing:

Don’t Let Puerto Rico Fall Into an Economic Abyss

with Trevor Houser, *New York Times*, 9/29/2017

Would a legal ivory trade save elephants or speed up the massacre?

with Nitin Sekar, *The Guardian*, 10/1/2016

Climate change is indeed a cause of social conflict

with Marshall Burke, *Los Angeles Times*, 12/17/2015

Costs and Benefits, Yes, but Whose Numbers?

with Marshall Burke, *The Wall Street Journal*, 11/22/2015

El Nino: a global weather event that may save California – and destroy the tropics

with Kyle Meng, *The Guardian*, 9/21/2015

Facing the storm after the storm in Vanuatu

with Amir Jina, *Reuters*, 3/19/2015

Weather and Violence

with Marshall Burke and Edward Miguel, *New York Times*, 8/30/2013

Teaching:

Global Challenges (Undergraduate & MPP)

Semesters of instruction: F19, F20, F22

Good Data: Machine Learning & Causal Inference Working Group (PhD)

Co-organized with Josh Blumenstock, Moritz Hardt, Ben Recht

Semesters: F18, S19, F19, F20

Spatial Data and Analysis (MPP & PhD)

Semesters of instruction: F13, F14, F15, F16, F17, F19, F20, F22

Foundations of Sustainable Development (MPP)

Semesters of instruction: F14, F15, F16

Interdisciplinary Research Methods: Environment, Society, & Global Change (PhD)*Co-taught with Laurel. Larsen, David Ackerly, Maximillian. Auffhammer*

Semesters of instruction: F16, F17, F19

Data-Science for the 21st Century and Global Change Colloquium (PhD)

Semesters of instruction: F17

Climate Economics Seminar (PhD)*Co-organized with David Anthoff, Maximillian Auffhammer*

Semesters: F16, S16, F16, S17, F17, S18, F19

Workshop in Climate Econometrics (PhD)

Instruction: Summer 2015

Doctoral and Post-Doctoral Advising (current placement / first placement):

Sherrie Wang (MIT, IDSS & Mech Eng.)
 Andrew Wilson (U. Virginia / Stanford postdoc)
 Miyabi Ishihara (U. Penn, Statistics)
 Jaecheol Lee (U. Chicago, Economics postdoc)
 Nicholas Depsky (UNDP)
 Esther Rolf (U of Colorado, Boulder / Harvard Data Science Fellow postdoc)
 Hannah Druckenmiller (Caltech / Resources for the Future)
 Peiley Lau (National Center for Environmental Economics, EPA)
 Gabe Englander (World Bank Development Research Group / UC Santa Barbara postdoc)
 Sebastien Annan Phan (JD.com)
 Luna Huang (Waymo, Alphabet)
 Andrew Hultgren (University of Illinois Urbana-Champaign / U. Chicago, Economics postdoc)
 Ian Bolliger (Reask / Rhodium Group)
 Jonathan Proctor (U. British Columbia / Harvard HUCE & Data Science Fellow postdoc)
 Tamma Carleton (UC Berkeley / U. Chicago, Economics postdoc)
 Jonathan Kadish (Evolved Energy Research)
 Kendon Bell (Scarlatti / Rutherford Foundation postdoc)
 Felipe González (Pontificia Universidad Católica de Chile, Economics faculty)
 James Rising (London School of Economics, Grantham faculty)
 Patrick Baylis (U. British Columbia, Economics faculty / Stanford, FSE postdoc)
 Francis Moore (UC Davis, Environmental Science and Policy faculty)
 Amir Jina (U. Chicago, Economics postdoc / U. Chicago, Public Policy faculty)
 Sam Heft-Neal (Stanford)

Current Doctoral Students (primary advisor)

Hikari Murayama
Simon Greenhill

Current Post-Doctoral Advising (primary advisor)

Rachel Young
Joel Ferguson

Academic Service:

Director of Graduate Studies, Global Environmental Policy (2024-)
Undergraduate Sustainability Education Working group, University-wide (2024-)
University of California Environmental Economics Working Group Co-Founder & Co-Chair (2019-2020)
National Academies of Science, Engineering, and Medicine Organizing Committee for “Data-Informed Societies Achieving Sustainability: Tasks for the Global Scientific, Engineering, and Medical Communities” (2020-2021)
Social Science Research Council, Working Group on Climate Change (2019)
CITRIS Faculty advisory Committee (2019-)
The California-China Climate Policy Institute at the UC Academic Advisory Committee (2019-)
Environmental Resilience Accelerator Steering Committee (2018-2020)
Work Group for Berkeley Roadmap on Environment, Climate, and Energy Efficiency Research (2017)
Goldman School of Public Policy Faculty Search Co-Chair (2019)
Goldman School of Public Policy Admissions Committee (2017)
Goldman School of Public Policy Faculty Search Committee (2014-15, 2017-18, 2021-2022)
UCSF Climate Change and Global Health Steering Committee (2016)
Data Science Planning Initiative Faculty Advisory Panel (2016)
Data Science for the Twenty-First Century Faculty Steering Committee (2015-19)
Berkeley Research Computing Advisory Group (2016-)
NSF Dynamics of Coupled Natural and Human Systems (CNH) advisory panel (2015)
American Geophysical Union Science for Solutions Award Committee (2015-16)

Blog Contributor: www.fight-entropy.com, www.G-FEED.com

Conference (Sessions) Organized:

Preparing for Climate Change, Stanford GSB (2023, 2024)
Climate Change Economics Symposium (2018, 2020)
Sustainable Development Research Symposium (2016)
American Economic Association (2015, 2016, 2017)
American Geophysical Union (2011, 2012, 2014)
Association of Environmental & Resource Economists (2012)
Ph.D. Workshop on International Climate Policy (2009)

Invited Presentations:

2020 –

United Nations Environment Program / Development Program
Paris School of Economics (Regulation & Environment Seminar)
New Zealand-wide Economics Seminar
UC Berkeley (Benjamin Wheeler Society Lecture)
Berkeley Atmospheric Sciences Center Symposium (keynote)
Health and Pandemics Economics Working Group
Planet Labs (colloquium)
UCLA (Climate Adaptation Research Symposium)
CITRIS (Research Exchange)
Federal Reserve Bank of Richmond

Security and Sustainability Forum / Planetary Health Alliance
Symposium on Hurricane Risk (*cancelled*)

2019 –

International Monetary Fund
United Nations Secretariat (Sustainable Development Outlook 2019 EGM)
Federal Reserve Bank of San Francisco
US House of Representatives (Budget Committee)
Household in Conflict Network (Keynote)
National Chengchi University, Taipei (Keynote)
Princeton University (Princeton Environmental Institute)
Stanford University (Center on Global Poverty & Development / Food Security & Environment Institute)
Columbia University (Center for Env Econ & Policy)
London School of Economics (Grantham)
American Geophysical Union (Centennial Plenary)
National Bureau of Economic Research (EEE Summer Institute)
Université libre de Bruxelles (ECARES Seminar)
University of British Columbia (Food and Resource Economics)
University of Oregon (Workshop in Environmental Econ & Data Science)
UC San Diego (Global Policy Seminar)
UC Berkeley (CDAR Plenary)
Stanford University (Planetary Health Series, *cancelled*)
Association of Environment and Resource Economists (Summer Conference)

2018 –

Aspen Institute (Program on the World Economy, Keynote)
University of Pennsylvania (Wharton Risk-Regulation Seminar)
Stanford University (Environmental & Energy Policy Analysis Center)
UC Berkeley (150 Academic Forum in Shanghai)
UC Santa Barbara (Demography Seminar)
U Southern California (INET Seminar)
National Bureau of Economic Research (EEE Summer Institute)
Brown University (Macroeconomics Seminar)
National Academy of Sciences (Sackler Colloquium)
Columbia University (Sustainable Development Seminar)
Columbia University (Initiative on Extreme Weather and Climate, Keynote)
Harvard University (Solar Engineering Seminar)
Stanford University (Environmental Economics Forum)
Johns-Hopkins University (SAIS Seminar)

2017 –

Stockholm University (Economics Departmental Seminar)
Toulouse School of Economics (Environmental Economics Seminar)
Bocconi University-FEEM (Environmental Economics Seminar)
World Conference of Science Journalists (Keynote)
UC Berkeley (Environment and Energy Economics Seminar)
Government Accountability Office
Stanford (SEEPAC Research Workshop)
UC Santa Barbara (Climate Change and Macro-Economics)
Cornell (Environment Economics Seminar)
National Bureau of Economic Research (EEE Summer Institute)
National Bureau of Economic Research (EEE Spring Meeting)

American Economics Association

2016 –

National Academy of Sciences (Kavli Frontiers of Science)
MIT (EmTech)
MIT (Earth, Atmospheric and Planetary Science Departmental Seminar)
MIT (Urban Studies and Planning Environmental Policy Lunch)
Harvard University (Environmental Economics Seminar)
Yale University (Environmental Economics/Forestry Seminar)
Columbia University (SusDeveR)
International Agricultural Trade Research Consortium
National Bureau of Economic Research (EFJK Growth Group Winter Meeting)
National Bureau of Economic Research (EEE Spring Meeting)
Effective Altruism Global
Blackrock (Scientific Active Equity)
Sandia National Labs
Duke University/NC State (Triangle Resource & Environmental Economics Seminar)
Arizona State University (Tipping Points Forum)
MIT (TIM Talks)
The White House
UC Berkeley (Public Policy Seminar)
UC Berkeley (Energy Camp)
UC Berkeley (Demography)
UC Berkeley (Institute for Research on Labor and Employment)
American Economic Association

2015 –

UC Davis (Environmental Economics Seminar)
National Academy of Sciences
US State Department
British Consulate-General, San Francisco
American Geophysical Union
UC Santa Barbara (Occasional Workshop)
Haas School of Business, UC Berkeley (Real Estate)
PERC (Market Adaptation to Climate Change)
International Food Policy Research Institute (Applied Microeconomics and Development)
California Energy Commission (IEPR workshop)
National Bureau of Economic Research (Environmental Econ & Energy Summer Institute)
National Bureau of Economic Research (Income Distribution & Macro Summer Institute)
Stanford University (Stanford Energy and Environmental Economics Policy Analysis Center)
Stanford University (Environmental Economics Seminar)
Oxford University (OxCarre Centre for the Analysis of Resource Rich Economies)
London School of Economics (Climate Change and Environment)
University of Chicago (Public Policy)
University of Maryland (Economics Seminar)
Princeton University (Development / Center for Health and Well-Being)
Princeton University (Science, Technology & Environmental Policy)
Rutgers University (Earth and Planetary Science)
Oklahoma University (Geography and Environmental Sustainability)
Strata + Hadoop World (Keynote)
UC Berkeley (Agricultural and Resource Economics/Energy Institute Seminar)
American Economic Association

2014 –

Discrete Mathematics & Theoretical Computer Science (Workshop on Global Change)
National Bureau of Economic Research Winter Meeting (Environmental Econ & Energy)
MIT (CEEPR)
Stanford University (Climate Risk Forum)
Stanford University (The Hamilton Project)
Lawrence Berkeley National Laboratory (Climate Sciences Seminar)
Bloomberg Philanthropies
Resources for the Future
California Governor's Office
The White House
Columbia University (Sustainable Development Seminar)
Columbia University (Sustainable Development 10 Year Anniversary Speaker)
Boston University (Program in Mathematics for Young Scientists, Alumni Reunion Keynote)
Risk Management Solutions (Annual Meeting, Keynote Speaker)
University of Chicago (Energy Policy Institute at Chicago)
American Geophysical Union (Fall Meeting)
Potsdam Institute for Climate Impact Research
USGS (Western Region Colloquium)
UC Berkeley (Geography)
UC Berkeley (CEGA)
UC Berkeley (Energy Institute at Haas Seminar)
UC Berkeley (Environmental Resource Group Seminar)
UC Berkeley (Institute for the Study of Societal Issues)
UC Berkeley (Summer Seminar in Applied Microeconomics)
UC Berkeley (Agricultural and Resource Economics Seminar)
UC Berkeley (Berkeley Institute for Transparency in Social Sciences)
UC Berkeley (UCE3)

2013 –

American Geophysical Union (Fall Meeting Awards Session)
Cornell University (Northeast Workshop on Energy Policy and Environmental Economics)
Columbia University (Earth Summit)
Columbia University (Abrupt Climate Change Studies Symposium)
Department of Energy (Energy Frontier Research Center for gas separations relevant to clean air tech.)
Geophysical Fluid Dynamics Laboratory (Lunch Seminar)
Harvard University (Humanitarian Action Summit)
IBM Research (Mathematics of a Smarter Planet Seminar)
IZA (Labor Market Effects of Environmental Policies Workshop)
Lamont-Doherty Earth Observatory (World-Wide Human Geography Data Working Group)
Princeton University (Science, Technology and Environmental Policy Seminar)
Carnegie Institute/Stanford University (Department of Global Ecology Seminar)
Syracuse University (Public Affairs Seminar)
UC Berkeley (Philomathia Forum: Food, Population, Security)
UC Berkeley (Center for Environmental Public Policy)
UC Berkeley (Development Economics Seminar)
UC Berkeley (Berkeley Institute for Data Science)
UC Berkeley (Berkeley Atmospheric Sciences Center)
UC San Diego (Economic Development Seminar)
UC San Diego (Symposia on Water Issues in Climate Change)
University of Lausanne (DEEP Advanced Seminar in Economics)

University of Zurich (Macro-Finance-Labor Seminar)
Williams College (Urbanization and Economic Development Conference)
World Bank (Green Growth symposium)

2012 –

American Economics Association
American Association of Geographers
American Geophysical Union (Fall Meeting)
British Council in Paris (Climate and Security)
Cercle National des Armées (Climate and Security)
Columbia University (Applied Microeconomics Seminar)
Columbia University (SIPA Alumni Weekend)
Columbia University (IPWSD “Frontiers of Sustainable Development”)
Environmental Defense Fund (Applied Environmental Economics Seminar)
Environmental Protection Agency (Climate Economics Seminar)
Harvard (Environmental Economics Seminar)
MIT (Terrascope Alumni Dinner Keynote)
National Bureau of Economic Research (Health Care / Environmental Econ & Energy joint meeting)
Princeton (Science, Technology and Environmental Policy)
UC Berkeley (Public Policy Seminar)
UC Berkeley (Energy Institute Seminar)
UC Santa Barbara (Occasional California Workshop on Environmental and Resource Economics)
University of San Francisco (Economics Seminar)

2011 –

American Geophysical Union (Fall Meeting)
Columbia University (Applied Physics & Applied Math Seminar)
Columbia University (Sustainable Development Seminar)
Columbia University (Applied Microeconomics Seminar)
Environmental Defense Fund (Applied Environmental Economics Seminar)
Mailman School of Public Health (Climate and Health Seminar)
MIT (Sloan Applied Economics Seminar)
Property & Environment Research Center
Stanford University (Environmental Earth System Science Seminar)
Woodrow Wilson Center
UC Santa Barbara (Environmental Management Seminar)

Referee Service:

American Economic Journal: Applied
American Economic Journal: Macro
American Economic Review
American Economic Review: Insights
American Political Science Review
American Journal of Agricultural Economics
American Journal of Political Science
California Energy Commission
Climatic Change
Climate Change Economics
Columbia University Press
Ecological Economics
Econometrica
Emerging Infectious Diseases
Energy Economics

Environment and Development Economics
Environmental Research Letters
European Physics Journal Special Topics
Global Environmental Change
Global Environmental Politics
Journal of Development Economics
Journal of Economic Literature
Journal of Economic Studies
Journal of Econometrics
J. of Environmental Economics & Management
J. of the Assoc. of Envir. & Resource Economists
Journal of the European Economics Association
Journal of Peace Research
Journal of Political Economy
National Science Foundation

Nature
Nature Climate Change
Nature Communications
PLOS One
Proceedings of the National Academy of Science
Quarterly Journal of Economics

Review of Economics and Statistics
Review of Economic Studies
Science
Science Advances
The Economic Journal
Weather, Climate and Society