Stanford

Solomon Hsiang

Professor of Environmental Social Sciences and Senior Fellow at the Stanford Institute for Economic Policy Research and at the Woods Institute for the Environment

Curriculum Vitae available Online

Bio

BIO

Solomon Hsiang directs the Global Policy Laboratory at Stanford University, where his team integrates social science, natural science, and data science to better understand how we can effectively manage global resources.

Hsiang is currently a Professor of Global Environmental Policy at the Stanford Doerr School of Sustainability, a co-founder and co-director at the Climate Impact Lab, co-founder of mosaiks.org, Research Associate at the NBER, and a National Geographic Explorer. Hsiang is also currently co-editing the Handbook of the Economics of Climate Change and co-leads the Aerial History Project.

Previously, Hsiang was faculty at the University of California, Berkeley at the Goldman School of Public Policy (2013-24). Hsiang was also Lead Author of the first Economics chapter in the Fifth National Climate Assessment (2023) and, from 2023-24, Hsiang served as the first Chief Environmental Economist at the White House Office of Science and Technology Policy, where he oversaw the inaugural year of the United States natural capital accounting program.

ACADEMIC APPOINTMENTS

- Professor, Environmental Social Sciences
- Senior Fellow, Stanford Institute for Economic Policy Research (SIEPR)
- Senior Fellow, Stanford Woods Institute for the Environment

ADMINISTRATIVE APPOINTMENTS

- Director of Graduate Studies, Global Environmental Policy, Stanford Doerr School of Sustainability, (2024- present)
- Chief Environmental Economist, White House, Office of Science & Technology Policy, (2023-2024)
- Lead Author, Fifth National Climate Assessment (Chapter 19: Economics), US Global Change Research Program, (2021-2023)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Board of Directors, Climate Impact Lab (2023 - present)
- Explorer, National Geographic (2018 - present)
- Research Associate, National Bureau of Economic Research (2016 - present)
- Research Affiliate, Center for Economic Policy Research (2018 - present)
- Statistical Advisory Panel, United Nations Development Program (2024 - 2025)
- Economic Advisory Council, Millennium Challenge Corporation (2021 - 2023)

PROFESSIONAL EDUCATION

- Postdoc, Princeton , Science, Technology & Environmental Policy (2013)
- Postdoc, NBER , Applied Econometrics (2011)
- Ph.D., Columbia University , Sustainable Development (2011)
- B.S., MIT , Urban Studies and Planning (2006)
- B.S., MIT , Earth, Atmospheric and Planetary Science (2006)

LINKS

- Personal Site: https://www.solomonhsiang.com/
- Global Policy Laboratory: https://www.globalpolicy.science/
- mosaiks.org: https://www.mosaiks.org/
- Climate Impact Lab: https://impactlab.org/
- Handbook of the Economics of Climate Change: https://www.sciencedirect.com/handbook/handbook-of-the-economics-of-climate-change

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Environmental Policy, Economics, Data Science, Intl Governance, Climate

Teaching

COURSES

2026-27

- Advanced Analysis of Global Environmental Policy: GEP 347 (Spr)
- Global Environmental Challenges: GEP 305 (Aut)

2025-26

- Advanced Analysis of Global Environmental Policy: GEP 347 (Spr)
- Topics and Methods in Global Environmental Policy I: GEP 268, INTLPOL 272 (Win)
- Topics and Methods in Global Environmental Policy II: GEP 269 (Spr)

2024-25

- Advanced Analysis of Global Environmental Policy: GEP 347 (Spr)
- Topics and Methods in Global Environmental Policy I: GEP 268, INTLPOL 272 (Win)
- Topics and Methods in Global Environmental Policy II: GEP 269 (Spr)

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Steve Berggreen Clausen, Dylan Hogan, Chenfei Qu, Suraj R Nair

Master's Program Advisor

Tom Ramsay

Postdoctoral Research Mentor

Lucile Dehouck

Publications

PUBLICATIONS

- **Impacts of climate change on global agriculture accounting for adaptation.** *Nature*
  Hultgren, A., Carleton, T., Delgado, M., Gergel, D. R., Greenstone, M., Houser, T., Hsiang, S., Jina, A., Kopp, R. E., Malevich, S. B., McCusker, K. E., Mayer, T., Nath, et al
  2025; 642 (8068): 644-652

- **Mortality caused by tropical cyclones in the UnitedStates.** *Nature*
  Young, R., Hsiang, S.
  2024

- **Mainstreaming nature in US federal policy.** *Science (New York, N.Y.)*
  Tallis, H., Fenichel, E. P., Petes, L., Hsiang, S., Levin, P. S., Levy, H., Lubchenco, J.
  2024; 385 (6708): 498-501

- **Estimating a social cost of carbon for global energy consumption** *NATURE*
  Rode, A., Carleton, T., Delgado, M., Greenstone, M., Houser, T., Hsiang, S., Hultgren, A., Jina, A., Kopp, R. E., McCusker, K. E., Nath, I., Rising, J., Yuan, et al
  2021; 598 (7880): 308-+

- **Estimating global agricultural effects of geoengineering using volcanic eruptions** *NATURE*
  Proctor, J., Hsiang, S., Burney, J., Burke, M., Schlenker, W.
  2018; 560 (7719): 480-+

- **Estimating economic damage from climate change in the United States** *SCIENCE*
  Hsiang, S., Kopp, R., Jina, A., Rising, J., Delgado, M., Mohan, S., Rasmussen, D. J., Muir-Wood, R., Wilson, P., Oppenheimer, M., Larsen, K., Houser, T.
  2017; 356 (6345): 1362-1368

- **Social and economic impacts of climate** *SCIENCE*
  Carleton, T. A., Hsiang, S. M.
  2016; 353 (6304)

- **Global non-linear effect of temperature on economic production** *NATURE*
  Burke, M., Hsiang, S. M., Miguel, E.
  2015; 527 (7577): 235-?

- **Will Wealth Weaken Weather Wars?**
  Burke, M., Ferguson, J., Hsiang, S., Miguel, E.
  AMER ECONOMIC ASSOC.2024: 65-69

- **Estimating a social cost of carbon for global energy consumption (vol 598, pg 308, 2021)** *NATURE*
  Rode, A., Carleton, T., Delgado, M., Greenstone, M., Houser, T., Hsiang, S., Hultgren, A., Jina, A., Kopp, R. E., McCusker, K. E., Nath, I., Rising, J., Yuan, et al
  2021; 600 (7889): E17

- **Combined Modeling of US Fluvial, Pluvial, and Coastal Flood Hazard Under Current and Future Climates** *WATER RESOURCES RESEARCH*
  Bates, P. D., Quinn, N., Sampson, C., Smith, A., Wing, O., Sosa, J., Savage, J., Olcese, G., Neal, J., Schumann, G., Giustarini, L., Coxon, G., Porter, et al
  2021; 57 (2)

- **The COVID-19 lockdowns: a window into the Earth System** *NATURE REVIEWS EARTH & ENVIRONMENT*
  Diffenbaugh, N. S., Field, C. B., Appel, E. A., Azevedo, I. L., Baldocchi, D. D., Burke, M., Burney, J. A., Ciais, P., Davis, S. J., Fiore, A. M., Fletcher, S. M., Hertel, T. W., Horton, et al
  2020; 1 (9): 470-481

- **Non-economic factors in violence: Evidence from organized crime, suicides and climate in Mexico** *JOURNAL OF ECONOMIC BEHAVIOR & ORGANIZATION*

Baysan, C., Burke, M., Gonzalez, F., Hsiang, S., Miguel, E.
2019; 168: 434–52

- **Strengthened scientific support for the Endangerment Finding for atmospheric greenhouse gases** *SCIENCE*
  Duffy, P. B., Field, C. B., Diffenbaugh, N. S., Doney, S. C., Dutton, Z., Goodman, S., Heinzerling, L., Hsiang, S., Lobell, D. B., Mickley, L. J., Myers, S., Natali, S. M., Parmesan, et al
  2019; 363 (6427): 597-+

- **Ivory crisis: Growing no-trade consensus** *SCIENCE*
  Sekar, N., Clark, W., Dobson, A., Francisco Coelho, P., Hannam, P. M., Hepworth, R., Hsiang, S., Kahumbu, P., Lee, P. C., Lindsay, K., Pereira, C., Wasser, S. K., Nowak, et al
  2018; 360 (6386): 276-277

- **Climate and conflict: no stigma** *NATURE*
  Hsiang, S., Burke, M.
  2018; 555 (7698): 587

- **Higher temperatures increase suicide rates in the United States and Mexico** *Nature Climate Change*
  Burke, M., González, F., Baylis, P., Heft-Neal, S., Baysan, C., Basu, S., Hsiang, S.
  2018; 8 (8): 723--729

- **Potentially Extreme Population Displacement and Concentration in the Tropics Under Non-Extreme Warming** *SCIENTIFIC REPORTS*
  Hsiang, S. M., Sobel, A. H.
  2016; 6: 25697

- **Climate and Conflict** *ANNUAL REVIEW OF ECONOMICS, VOL 7*
  Burke, M., Hsiang, S. M., Miguel, E.
  2015; 7: 577-?

- **Reconciling climate-conflict meta-analyses: reply to Buhaug et al.** *CLIMATIC CHANGE*
  Hsiang, S. M., Burke, M., Miguel, E.
  2014; 127 (3-4): 399-405

- **Nonlinear permanent migration response to climatic variations but minimal response to disasters** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Bohra-Mishra, P., Oppenheimer, M., Hsiang, S. M.
  2014; 111 (27): 9780-9785

- **CORRESPONDENCE: Temperature and violence** *NATURE CLIMATE CHANGE*
  Cane, M. A., Miguel, E., Burke, M., Hsiang, S. M., Lobell, D. B., Meng, K. C., Satyanath, S.
  2014; 4 (4): 234-235

- **Reconciling disagreement over climate-conflict results in Africa.** *Proceedings of the National Academy of Sciences of the United States of America*
  Hsiang, S. M., Meng, K. C.
  2014; 111 (6): 2100-3