Luke Sanford

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Education

Expected 2021	🔖	**University of California San Diego.** Ph.D. International Affairs Concentrations: Political Methodology, Political Economy of Natural Resources.
2017	🔖	**Political Science, School of Global Policy and Strategy, UCSD.** M.A. Focus Areas: International Economics, China
2009	🔖	**BA Politics, Whitman College.** B.A. Thesis: China's Olympic Trial: The Environmental Effects of the Beijing Olympic Games

Under Review

Under Review	🔖	Democratization, Elections, and Public Goods: The Evidence from Deforestation *R&R* at AJPS

Research Publications

Journal Articles

1. **Sanford, L.** & Burney, J. (2015). Cookstoves illustrate the need for a comprehensive carbon market. *Environmental Research Letters, 10*(8), 084026.
https://doi.org/10.1088/1748-9326/10/8/084026

2. Lautze, J., de Silva, S., Giordano, M. & **Sanford, L.** (2011). Putting the cart before the horse: Water governance and IWRM. *Natural Resources Forum, 35*(1), 1–8.
https://doi.org/10.1111/j.1477-8947.2010.01339.x

3. Molden, D., Lautze, J., Shah, T., Bin, D., Giordano, M. & **Sanford, L.** (2010). Governing to Grow Enough Food without Enough Water—Second Best Solutions Show the Way. *International Journal of Water Resources Development, 26*(2), 249–263.
https://doi.org/10.1080/07900621003655643

Books and Chapters

1. Lautze, J., de Silva, S., Giordano, M. & **Sanford, L.** (2014). Water Governance (J. Lautze, Ed.). In J. Lautze (Ed.), *Key concepts in water resource management: A review and critical evaluation.* London ; New York, Routledge, Taylor & Francis Group.

2. Boelee, E., Atapattu, S., Amede, T. & **Sanford, L.** (2011). *Ecosystems for water and food security* [OCLC: 771993931]. Nairobi, UNEP. March 16, 2018, ⚲
http://www.iwmi.cgiar.org/Topics/Ecosystems/PDF/Background_Document-Ecosystems_for_Water_and_Food_Security_2011_UNEP-IWMI.pdf

Research

Research Interests	🔖	Political Economy, Environment, Natural Resources, Causal Inference, Machine Learning, Remote Sensing, Text as Data.
Working Papers	🔖	Discovery of Influential Text in Experiments Using Deep Neural Networks, with Molly Roberts

Research (continued)

	Environmental injustice in California revealed by the COVID-19 economic shutdown, with Richard Bluhm, Pascal Polonik, Kyle S. Hemes, Susanne A. Benz, Morgan Levy, and Jennifer Burney.
Ongoing Projects	Remote Sensing: Measurement and Causal Inference
	The Effects of Land Tenure Security on Agricultural and Environmental Outcomes in Benin: New Evidence from Satellite Data [Polmeth 2019 Best Poster Award, AGU 2018 Student Presenter Award]

Grants and Awards

2019	Polmeth best poster award
	Institute of Global Conflict and Cooperation Herb York Dissertation Fellowship ($25,000)
2018	Winner of American Geophysical Union Outstanding Student Presenter Award
	Sage Foundation grant ($174,702) research assistant.
2018–2020	Sanford Lakoff dissertation improvement grant
2018	Grad SLAM public speaking semifinalist.
2015	Dean of Social Sciences fellowship recipient.
2014–2015	Boren Fellow. China.
2014	GPS Dean's Fellow
	Robinson Research Fellow
	Doming Liu award for for Wisdom, Exuberance, Warmth, and Leadership.
2008	Cross Examination Debate Association National Tournament: 5th place.

Teaching (School of Global Policy and Strategy)

2019, 2020	Poli 270: Mathematical & Statistical Foundations. Instructor.
2015–2020	Math Skills for Graduate Students. Instructor.
2015–2016	Economic and Social Development of China. Naughton. International Politics and Security. Walter.
2016–2017	Quantitative Methods 1: Statistics and Probability. Garg. Quantitative Methods 2: Regression Analysis. Burney. Quantitative Methods 3: Panel Data and Causal Inference. McIntosh.
2018	Advanced GIS and Remote Sensing. Goldblatt.
2019	Remote Sensing and Spatial Analysis. McCord.

Conferences

2020	"The effects of land tenure security on agricultural and environmental outcomes in Benin: New evidence from satellite data" APSA (talk, submitted panel)
2019	"Discovery of Influential Text in Experiments Using Deep Neural Networks" Polmeth (talk), APSA (talk)
	"Democratization, Elections, and Public Goods: The Evidence from Deforestation" MPSA (talk), Institutions and Lawmaking Conference (poster), WPSA (talk)
	"Geospatial synthetic controls for agricultural impact evaluation" Polmeth (poster), Sustainability and Development Conference (talk)
2018	"How to property rights affect agricultural productivity?" Paper presented at *American Geophysical Union* Washington DC.

Conferences (continued)

- "Mining Human Decision Making" with Molly Roberts. Paper presented at *Text as Data* University of Washington.
- "Democratization, Elections, and Public Goods: The Troubling Evidence from Deforestation" Paper presented at *Working Group on Africal Political Economy Annual Meeting* UCLA.

2017
- "Democratization, Elections, and Public Goods: The Troubling Evidence from Deforestation" Poster presented at *American Geophysical Union* New Orleans, LA. Media Coverage: https://blogs.agu.org/geospace/2018/01/09/elections-may-catalyst-deforestation-new-research-suggests/
- "Detecting Land-Use Change and On-Farm Investments at the Plot Scale" with Jen Burney and Ran Goldblatt. Poster presented at *American Geophysical Union* New Orleans, LA.
- "Mass Digitization of Chinese Court Decisions" with Molly Roberts, Rachel Stern, Ben Liebman. Paper presented at *American Political Science Association* San Francisco, CA
- "Measuring the Impact of Land Titling on Investment via Satellite" with Jen Burney and Ran Goldblatt. Paper presented at *CEGA Research Retreat* Berkeley, CA

2010
- "Water Governance in the Middle East North Africa Region: Applying a Multifaceted Benchmarking Approach." Session: Climate Change and Environmental Conflict. *American Association of Geographers*. Seattle, WA
- "Water Governance Survey Results." USAID MENA Benchmarking Conference, Amman, Jordan.

Service

2019
- Graduate student representative on the admissions committee
- Faculty Liaison, UCSD Political Science Graduate Council

2018
- Co-Chair, UCSD Political Science New Student Orientation

2017
- Co-Chair, UCSD Political Science Social Events
- Memberships: *American Political Science Association, American Economic Association, American Geophysical Union, Midwest Political Science Association, Western Political Science Association, AAAS*

Skills

Languages
- Native: English. Strong reading, writing and speaking competencies in Mandarin Chinese (HSK6). Conversational Spanish.

Coding
- Expert: R, Stata, Intermediate: Python, LaTeX, JavaScript.

References available upon request.