

# Andrew Hobbs

## Education

<b>Ph.D. Agricultural and Resource Economics</b> , <i>University of California, Davis</i>	2015-2020
– Fields: Development Economics, Environmental Economics.	
<b>M.A. Economics</b> , <i>University of British Columbia</i>	2010
<b>Honors B.S. Economics, B.A. International Studies</b> , <i>University of Utah</i>	2009

## Employment

<b>Assistant Professor</b> , <i>Economics, University of San Francisco</i>	2020-Present
<b>Graduate Student Researcher</b> , <i>University of California, Davis</i>	2016-2020
<b>Graduate Student Instructor</b> , <i>University of California, Davis</i>	2016
<b>Analyst</b> , <i>Climate Policy Initiative</i>	2010-2016

## Publications

"The Distribution of Energy Efficiency and Regional Inequality" (2023). *Energy Journal*. with Puja Singhal.

"Uniting remote sensing, crop modelling and economics for agricultural risk management" (2021). *Nature Reviews: Earth & Environment*. with Elinor Benami, Zhenong Jin, Michael R. Carter, Aniruddha Ghosh, Benson Kenduiywo, and David B. Lobell.

"Colorism and Economic Opportunity in Nigeria" (2021). *Pierless Bridges*. with Mutiu Fakorede and Airah Balogun.

"Satellite-based Prediction of Forage Conditions for Livestock in Northern Kenya" (2020). *Published as a conference paper at International Conference on Learning Representations (ICLR) 2020*. with Stacey Svetlichnaya

"Gender Differences in Authorship of Clinical Problem-solving Articles" (2020). *Journal of Hospital Medicine* 15 (8). with Elizabeth Adler, Jennifer Babik, and Gurpreet Dhaliwal

"Challenges and Opportunities for Efficient Land Use in Mozambique: Taxes, Financing, and Infrastructure" (2016). *Climate Policy Initiative*. with Amanda de Albuquerque

"The California Carbon Dashboard." (2013). *Climate Policy Initiative*. Interactive Website.

"Improving Solar Policy: Lessons from the solar leasing boom in California." (2013). *Climate Policy Initiative*. with Elinor Benami, Brendan Pierpont, and Uday Varadarajan.

"Building Energy Efficiency in China, Germany, and the United States." (2012). *Climate Policy Initiative*. with Hermann Amecke, Aleksandra Novikova, Yang Xiu, and Shengyuan Zhang.

"Clearing the Air: Carbon Pricing and Local Air Pollution in California." (2012). *Climate Policy Initiative*. with Kath Rowley.

"Codes to Cleaner Buildings: Effectiveness of U.S. Building Energy Codes." (2011). *Climate Policy Initiative*. with Jeff Deason.

"Measuring the effect of bi-directional migration remittances on poverty and inequality in Nicaragua." (2012). *Applied Economics*, Volume 44, Issue 19.

## Presentations

"Machine Learning with Household and Survey Data for Index Insurance." American Geophysical Union Annual Meeting. December 15, 2022

"Gender and the Decision to Insure." International Conference on Inclusive Insurance. October 27, 2022

"Machine Learning for Index Insurance." American Agricultural Economics Association Annual Meeting. August 2, 2022

"Machine Learning for Index Insurance." American Geophysical Union Annual Meeting. December 13, 2021

"Intrahousehold Risk Sharing: Evidence from Samburu County, Kenya." American Risk and Insurance Association Annual Meeting. August 3, 2021

"Do Droughts Drive Deforestation? Evidence from Mozambique." American Agricultural Economics Association Annual Meeting. August 2, 2021

"Artificial Intelligence for Food Security." IndabaX Tanzania. June 19, 2021

"On Heat Demand and the Distribution of Energy Efficiency." Midwest Economics Association. March 22, 2021

"Machine Learning for Optimal Index Insurance." American Geophysical Union Annual Meeting. December 15, 2020

"Household Decisions Under Risk: Evidence from Samburu County, Kenya." American Agricultural Economics Association, July 21, 2019, Atlanta, Georgia.

"Durable Empowerment: Designing Insurance to Maximize Benefits for Women" Digital Credit Observatory Women's Economic Empowerment Convening, June 27, 2019, Berkeley, California.

"Computer Vision for Drought Resilience" Computer Vision and Pattern Recognition (CVPR 2019), June 15, 2019, Long Beach, California.

"Do Droughts Drive Deforestation?" Association of Environmental and Resource Economics Summer Conference, May 30, 2019, Incline Village, California.

"Household Decisions Under Risk: Evidence from Samburu County, Kenya." Departmental Seminar, University of San Francisco Department of Economics, January 31, 2019, San Francisco, California.

"More frequent flooding accelerates deforestation in Mozambique." Geo4Dev, November 15, 2018, Berkeley, California.

"Learning about pastoralist decisionmaking with games." International Center for Evaluation & Development Evidence to Action Conference, July 24, 2018, Nairobi, Kenya.

"Lessons for South Africa from the solar leasing boom in California." Solar Indaba, September 4, 2013, Cape Town, South Africa.

"Financial Incentives for Energy Efficient Retrofits in Buildings." ACEEE Buildings Summer Study, August 12, 2012.

"Remittances, Poverty, & Inequality in Nicaragua." University of Utah Undergraduate Research Symposium, Salt Lake City, UT, USA, March 31, 2009.

## **Grants and Awards**

Colorism and Economic Opportunity in Nigeria (2021), \$5000, University of San Francisco Jesuit Foundation Grant.

Quantifying the Economic Cost of Weather Risk (2020), \$3823.68, University of San Francisco Faculty Development Grant.

Sokoni: A Digital Livestock Marketplace for Northern Kenya (2019), \$2900, Poverty Alleviation through Sustainable Solutions (PASS) Grant, Blum Center for Developing Economies.

Sokoni: A Digital Livestock Marketplace for Northern Kenya (2019), \$3000, Henry A. Jastro Research Grant.

Droughtwatch: Computer Vision for Index Insurance (2019), Computer Vision for Global Challenges Travel Grant to CVPR 2020, Facebook.

## **Other Professional Activities**

Member of Partnership for AI working group on AI for Global Food Security.

Referee: American Journal of Agricultural Economics, Agricultural Economics, Economic Development and Cultural Change, European Economic Review, Journal of Development Studies, Natural Hazards, Sustainability, Geneva Papers on Risk and Insurance, Risk Management and Insurance Review, Agricultural Economics, Climate Policy, Climate Research, Food Policy.