

# Laura A. Bakkensen

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## Appointments

Assistant Professor. School of Government and Public Policy. University of Arizona. 2014 - Present.

Faculty Affiliate: Center for Climate Adaptation Science and Solutions; Global Change Graduate Interdisciplinary Program; Institute for Energy Solutions; Institute of the Environment; Water, Society, and Policy.

Visiting Scholar. Department of Agricultural & Resource Economics. University of California Berkeley. Fall 2017.

## Education

Ph.D. Environmental and Natural Resource Economics. Yale University. 2014.

M.Phil. Environmental and Natural Resource Economics. Yale University. 2012.

M.Sc. Environment and Development, with Merit. London School of Economics. 2007.

B.A. Economics, Magna Cum Laude. Whitman College. 2005.

## Publications (*Peer Reviewed*)

Bakkensen, L., Ding, X., and Ma, L. *Forthcoming*. "Flood Risk and Salience: New Evidence from the Sunshine State." *Southern Economic Journal*.

Bakkensen, L., Park, D., and Sarkar, R. 2018. "Climate costs of tropical cyclone losses also depend on rain." *Environmental Research Letters*. 13(7): 074034.

Bakkensen, L., Shi, X, and Zurita, B. 2018. "The Impact of Disaster Data on Estimating Damage Determinants and Climate Costs." *Economics of Disasters and Climate Change*. 2(1): 49-71.

Bakkensen, L. 2017. "Mediterranean Hurricanes and Associated Damage Estimates." *Journal of Extreme Events*. 4(2): 1750008.

Bakkensen, L., Fox-Lent, C., Read, L., and Linkov, I. 2017. "Validating Resilience and Vulnerability Indices in the Context of Natural Disasters." *Risk Analysis*. 37(5): 982-1004.

Seo, N. and Bakkensen, L. 2017. "Is Tropical Cyclone Surge, Not Intensity, What Kills So Many People in South Asia?" *Weather, Climate, and Society*. 9(2): 171- 181.

Bakkensen, L. and Mendelsohn, R. 2016. "Risk and Adaptation: Evidence from Global Hurricane Damages and Fatalities." *Journal of the Association of Environmental and Resource Economists*. 3(3): 555-587.

Seo, N. and Bakkensen, L. 2016. "Did Adaptation Strategies Work? High Fatalities from Tropical Cyclones in the North Indian Ocean and Future Vulnerability Under Global Warming." *Natural Hazards*. 82(2): 1341-1355.

Bakkensen, L., and Larson, W. 2014. "Population Matters When Modeling Hurricane Fatalities." *Proceedings of the National Academy of Sciences*. 111(50): E5331-E5332. Media coverage: [Washington Post](#).

Mendelsohn, R., Emanuel, K., Chonabayashi, S, and Bakkensen, L. 2012. "The Impact of Climate Change on Global Tropical Cyclone Damage." *Nature Climate Change*. 2(2): 1-5.

Bakkensen, L. 2007. "Student-Perspective Sources of Environmental Learning in South Korea." *Journal of the Korean Geographical Society*. 42(5): 769-787.

Hazlett, D. and Bakkensen, L. 2005. "Global Trade in CO2 Permits: A Classroom Experiment." *Perspectives in Economic Education Research*. 1(1): 18-43.

## Book Chapters (*Peer Reviewed*)

Bakkensen, L. and Mendelsohn, R. *Forthcoming*. "Global Tropical Cyclone Damages and Fatalities Under Climate Change: An Updated Assessment." Hurricane Risk, Vol 1, Ch 9. Springer.

## White Papers

Bakkensen, L. and Johnson, R. 2017. The Economic Impacts of Extreme Weather: Tucson and Southern Arizona's Current Risks and Future Opportunities. *Making Action Possible in Southern Arizona Dashboard*. [Available online here](#). Media coverage: [AZCentral](#), [AZDWR](#), [AZPM](#), [Daily Wildcat](#) (headline story), [KVOA](#), [KVOI](#), [UANews](#), [UNISDR](#).

## Work in Progress

Bakkensen, L., and Barrage, L. Flood Risk Belief Heterogeneity and Coastal Home Price Dynamics: Going Under Water? (Under review.) Media coverage: [NBER Digest](#), [Pacific Standard](#).

Bakkensen, L., Paul, A., Mendelsohn, R., and Phillips, D. National Parks and Policy: What is their Worth, Who Benefits, and What Fee Should be Charged? (Under review.)

Schlager, E., Bakkensen, L., Olivier, T, and Hanlon, J. Institutional Design for a Complex Commons: Variations in the Design of Credible Commitments and the Provision of Public Goods. (Under review.)

Bakkensen, L. Learning from Public Information Under Conflicting Signals: Evidence from U.S. Tornadoes.

Bakkensen, L., and Ahmed, S. The Role of Risk Preferences in Climate Decisions: Evidence from Bangladeshi Farmers.

Bakkensen, L., and Barrage, L. Climate Shocks, Cyclones, and Economic Growth: Bridging the Micro-Macro Gap.

Bakkensen, L., and Barrage, L. Climate Change, Cyclone Risks, and Economic Growth: A Business Cycles Approach.

Bakkensen, L., and Ma, L. Estimating Heterogeneous Preferences to Avoid Flood Risk and the Implications for Disaster Exposure.

Fan, Q., and Bakkensen, L. Inter-Regional Sorting as Adaptation to Hurricanes.

## Grants

National Academies of Sciences Gulf Research Program Early-Career Research Fellowship. \$76,000. 2017-2019.

Social & Behavioral Sciences Research Institute Faculty Small Grant. \$3,500. 2017.

Making Action Possible Dashboard White Paper Grant. \$7,500. 2016.

Social & Behavioral Sciences Research Institute Leveraging Grant. \$1,000. 2015.

Yale Institute for Biosphere Studies Graduate Research Grant. \$5,000. 2010.

Fulbright Teaching Grant to South Korea. 2005.

Perry Summer Collaborative Research Grant. 2004.

## Conference and Seminar Presentations

2019 (*Including scheduled*): AERE and AEA Sponsored Sessions at the Allied Social Sciences Association Annual Meeting. Atlanta, GA; Columbia University Sustainable Development Seminar. New York, NY; Fordham University. Bronx, NY.

2018 (*Including scheduled*): AERE Sponsored Session at the Allied Social Sciences Association Annual Meeting (*Discussant*). Philadelphia, PA; School of Geography and Development Colloquium. University of Arizona. Tucson, AZ; Public Health Poster Forum: A Public Health Discussion on Disaster Preparedness, Response, and Long-term Recovery (*Keynote panelist*). University of Arizona, Mel and Enid Zuckerman College of Public Health. Tucson, AZ; 6th World Congress of Environmental and Resource Economists. Gothenburg, Sweden; National Bureau of Economic Research Summer Institute, Environmental & Energy Economics. Cambridge, MA (*Attendee*); Arizona State University Environment, Resource, and Energy Economics Seminar. Tempe, AZ; Resources For The Future, Washington, DC; Association For Public Policy Analysis & Management Fall Research Conference. Washington, DC; Closing the Gap on Natural Disaster Risk Reduction: Linking Research and Practice Conference (*Invited panelist*). Wharton Risk Management and Decision Processes Center. Philadelphia, PA.

2017: AERE Sponsored Session at the Allied Social Sciences Association Annual Meeting. Chicago, IL; 6th Annual Association of Environmental and Resource Economists Summer Conference. Pittsburgh, PA; 6th International Summit on Hurricanes and Climate Change. Crete, Greece; Association for Environmental Studies and Sciences Conference. Tucson, AZ; National Bureau of Economic Research Summer Institute, Environmental & Energy Economics. Cambridge, MA; Department of Energy National Laboratory Berkeley Lab Climate & Ecosystem Sciences Division, Climate Brownbag Seminar. Berkeley, CA; University of California Berkeley, Environmental and Energy Economics Seminar. Berkeley, CA; University of California Berkeley, Climate Change Economics Lunch. Berkeley, CA; University of California Davis, Economics and Agricultural and Resource Economics Seminar. Davis, CA; Association For Public Policy Analysis & Management Fall Research Conference. Chicago, IL; University of Arizona Environmental & Energy Economics Workshop (*Discussant*). Tucson, AZ; University of Arizona, Department of Hydrology and Atmospheric Sciences. Tucson, AZ.

2016: University of Arizona, Environmental Breakfast Club. Tucson, AZ; University of Arizona, Agricultural & Resource Economics Department. Tucson, AZ; National Weather Service, Southeast Arizona Office. Tucson, AZ; Arizona Environmental Economists Research Workshop. Tucson, AZ; AERE Sponsored Session at the Western Economic Association International Annual Conference. Portland, OR; Geospatial Analysis of Disasters: Measuring Welfare Impacts of Emergency Relief Workshop. Heidelberg, Germany. National Bureau of Economic Research Summer Institute, Environmental & Energy

Economics. Cambridge, MA; Rand Corporation, Applied Microeconomic Seminar Series. Washington DC; Association For Public Policy Analysis & Management Fall Research Conference. Washington, DC; University of Kentucky, Department of Economics. Lexington, KY.

2015: University of Arizona, Center for Climate Adaptation Science and Solutions. Tucson, AZ; Environmental Policy and Research Group. Tucson, AZ; Heartland Environmental & Resource Economics Workshop. Urbana-Champaign, Illinois; AERE Sponsored Session at the Southern Economics Association Annual Meeting. New Orleans, LA.

2014: Oklahoma State University, Department of Agricultural Economics. Stillwater, OK; The University of Oklahoma, Department of Geography and Environmental Sustainability. Norman, OK; Connecticut College, Department of Economics. New London, CT; U.S. Army Corps of Engineers, Engineer Research and Development Center. Concord, MA; Camp Resources XXI, North Carolina State University. Wrightsville Beach, NC; Society for Risk Analysis Annual Conference. Denver, CO.

2013: The University of Arizona School of Government and Public Policy. Tucson, AZ; The Graduate Institute Geneva Advanced Seminar in Environmental and Resource Economics. Geneva, Switzerland; Fondazione Eni Enrico Mattei and Euro-Mediterranean Center on Climate Change Annual Convention. Venice, Italy; University of Rhode Island Environmental Economics Seminar. Kingston, RI; Italian Society for Climate Scientists 1st Annual Conference. Lecce, Italy; Fondazione Eni Enrico Mattei Research Seminar. Venice, Italy; Euro-Mediterranean Center for Climate Change Research Seminar. Bologna, Italy; 20th Annual Conference of the European Association of Environmental and Resource Economists. Toulouse, France; Cornell University 2nd Northeast Workshop of Energy Policy and Environmental Economics. Ithaca, NY; Yale University School of Forestry & Environmental Studies Doctoral Conference. New Haven, CT; Yale University Environmental Economics Seminar. New Haven, CT; Columbia University Third Interdisciplinary Ph.D. Workshop in Sustainable Development. New York, NY.

2012: Yale University Environmental Economics Seminar. New Haven, CT; Yale University School of Forestry & Environmental Studies Doctoral Conference. New Haven, CT.

2011: Belpasso International Summer School Guest Lecturer and Research Presenter. Belpasso, Italy; Yale University Environmental Economics Seminar. New Haven, CT; Yale University School of Forestry & Environmental Studies Doctoral Conference. New Haven, CT.

2010: Yale University School of Forestry & Environmental Studies Doctoral Conference. New Haven, CT.

2005: 7th Annual Whitman Undergraduate Conference. Walla Walla, WA; 44th Annual Western Regional Sciences Association Conference. San Diego, CA.

Conference Awards: Economics and Benefits Analysis Specialty Group Student Merit Award. Society for Risk Analysis Annual Meeting. 2014; 3rd Place for Best Convention Presentation. Fondazione Eni Enrico Mattei and Euro-Mediterranean Center on Climate Change Annual Convention. 2013; Honorable Mention for Best Conference Paper by a Scientist Under 40. Italian Society for Climate Scientists. 2013.

## Research Employment

Euro-Mediterranean Center for Climate Change. Visiting Researcher. Venice, Italy. 2013.

Economic Insights. Energy Market Report Author and Economist. Portland, OR. 2008 - 2009.

Oregon Department of Environmental Quality. Water Modeling Intern. Portland, OR. 2001, 2005.

City of Walla Walla. Environmental Studies Grant Writing Intern. Walla Walla, WA. 2003.

## Teaching

### Awards

Theodore H. Koff Outstanding Teacher Award. 2016 & 2017.

Certificate of College Teaching Preparation. Yale University. Fall 2013.

Courses Taught at the University of Arizona.

Causal Inference

Environmental Management

Quantitative Policy Analysis I & II

Statistics for Public Policy II

Teaching Fellowships at Yale University

Valuation of the Environment. Spring 2013 and Spring 2012.

Economics of the Environment. Fall 2012.

Economics of the Environment and Natural Resources. Spring 2014, Fall 2011, and Fall 2010.

Teaching Positions

Cheju National University Foreign Language Institute. Jeju City, South Korea. 2007 -2008.

Fulbright Teaching Grant to South Korea. Seogwipo, South Korea. 2005 - 2006.

Guest Lectures

Introduction to Weather and Climate. "Natural Disaster Policy. University of Arizona. 2018.

Climate Change Policy. "Oceans". University of Arizona. 2018.

Politics, Policy and Governance: The U.S. and the World. "Natural Disasters: The Science and Policy". University of Arizona. 2015, 2016, 2017.

Sustainability in Environmental Policy. "Warning versus Seeing: Learning from Public Risk Information Under Conflicting Signals". University of Arizona. 2016.

Fourth Annual Conference on Renewable Energy Science, Technology, and Policy. "Energy Economics and Policy Tutorial". University of Arizona. 2015.

Green Economy. "An Overview of Energy Markets, Externalities, and Policy Solutions". University of Arizona. 2015.

Environmental Economics. "The Economics of Air and Water Quality". University of Arizona. 2015.

Arid Lands Graduate Seminar. "The Economics of Tropical Cyclones under Climate Change: An Application of Integrated Assessment Modeling". University of Arizona. 2014.

Natural Hazards. "Quantifying Disaster Losses: Techniques, Models, and Datasets". University of Oklahoma. 2014.

Interdisciplinarity in Environmental Research. "Integrated Assessment Models". Yale University. 2013.

Valuing the Environment. "Contingent Valuation and Non-Use Values". Yale University. 2013.

Economics of the Environment and Natural Resources. "Hotelling and Nonrenewable Resource Management". Yale University. 2012.

Economics of the Environment and Natural Resources. "The Travel Cost Method". Yale University. 2011.

Economics of the Environment and Natural Resources. "Nontimber Forest Products". Yale University. 2010.

Public Policy and NGOs. "Environmental Learning in South Korea". Cheju National University. 2008.

## Advising

### Current Ph.D. Committees

Ladd Keith

### Former Ph.D. Committees (first placement)

Emily Bell (University of California, Davis, *Post-Doc*)

### Other graduate advising

Master of Public Administration

Master of Public Policy (including Capstone project)

Master of Water, Society, and Policy

Ph.D. Minor in Global Change

### Undergraduate Research Fellowship

## Service and Outreach

### Service

Economics of Disasters and Climate Change, Journal Board Member. 2016 - Present.

Muaebak Institute of Global Warming Studies, Advisory Board Member. 2016 - Present.

University of Arizona, M.S. in Water, Society, and Policy Executive Committee. 2017 - Present.

University of Arizona, Master of Public Administration and Master of Public Policy Committee. 2015 - Present.

University of Arizona, 2 hiring committees, 2015 - Present.

Arizona Environmental Economists Research Workshop, Lead Organizer. 2016.

### Outreach

National Weather Service. SKYWARN Severe Weather Spotter. 2016 - Present.

Big Brothers Big Sisters of Tucson. Mentoring for College and Career Program. 2016 - Present.

## Referee Service

Annals of the American Association of Geographers, Climatic Change, Disaster Medicine and Public Health Preparedness, Disasters, Ecological Economics, Economics and Human Biology, Environment Systems and Decisions, Food Policy, Global Environmental Change, International Journal of Disaster Risk Reduction, Journal of the Association of Environmental and Resource Economists, Journal of Benefit-Cost Analysis, Journal of Environmental Economics and Management, Journal of International Humanitarian Action, Journal of Urban Economics, National Science Foundation (panel), Natural Hazards, Nature Climate Change, PLOS ONE, Policy Studies Journal, Population and Environment, Rutledge (textbook proposal), Sloan Foundation, Southern Economic Journal, Sustainability, Water Security, World Development

## Professional Affiliations

American Economic Association, Association for Public Policy Analysis and Management, Association of Environmental and Resource Economists

Last updated: October 5, 2018