

**Gabriel S. Sampson**  
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## Education

### University of California, Davis

Ph.D., Agricultural and Resource Economics, 2016

Fields: Environmental and Resource Economics, Econometrics

### University of California, Santa Barbara

Master of Environmental Science and Management, 2010

### California State University, Chico

B.S., Environmental Science, 2007

## Positions

Associate Professor, Department of Agricultural Economics, Kansas State University, 2021-present

Assistant Professor, Department of Agricultural Economics, Kansas State University, 2016-2021

## Research Interests

Natural Resource Economics, Agricultural Economics, Water Resources, Conservation

## Peer-Reviewed Publications

(\* denotes graduate student coauthor)

Barkley, A., P. Aseete, and G.S. Sampson. 2023. "The Economic Impact of Biofuel Policy on the Agricultural Sector in the Great Plains Region, 1997-2017." *Q Open*, 3(2): 1-18.

Gardner, G.\* and G.S. Sampson. 2022. "Land Value Impacts of Ethanol Market Expansion by Irrigation Status." *Journal of Agricultural and Resource Economics*, 47(3): 563-579. doi: 10.22004/ag.econ.313314

Sampson, G.S., A. Al-Sudani\*, and J. Bergtold. 2021. "Local Irrigation Response to Ethanol Expansion in the High Plains Aquifer." *Resource and Energy Economics*, 66: 101249, <https://doi.org/10.1016/j.reseneeco.2021.101249>.

Gardner, G.\*, G.S. Sampson, and D. Presley. 2021. "Irrigator Perceptions and the Value of Groundwater Quality in the High Plains Aquifer." *Journal of Soil and Water Conservation*, May, DOI: <https://doi.org/10.2489/jswc.2021.00118>.

Sampson, G.S., E.D. Perry, and M.R. Taylor. 2020. "The On-farm and Near-farm Effects of Wind Turbines on Agricultural Land Values," *Journal of Agricultural and Resource Economics*, 45(3): 410-427.

Taylor, M.R., N.P. Hendricks, G.S. Sampson, and D. Garr. 2020. "The Opportunity Cost of the Conservation Reserve Program: A Kansas Land Example," *Applied Economic Perspectives and Policy*, 43(2): 849-865, <https://doi.org/10.1002/aep.13040>.

Ofori, E.O.\*, G.S. Sampson, and J. Vipham. 2019. "Smallholder Cooperatives and Agricultural Performance in Cambodia," *Natural Resources Forum*, 43: 218-229.

Sampson, G.S. and E.D. Perry. 2019. "Peer Effects in the Diffusion of Water-saving Agricultural Technologies," *Agricultural Economics*, 50: 693-706.

Sampson, G.S., N.P. Hendricks, and M.R. Taylor. 2019. "Land Market Valuation of Groundwater," *Resource and Energy Economics*, 58: 101120, <https://doi.org/10.1016/j.reseneeco.2019.101120>.

Sampson, G.S. and J.N. Sanchirico. 2019. "Exploitation of a Mobile Resource with Costly Cooperation," *Environmental and Resource Economics*, 73(4): 1135-1163.

Sampson, G.S. and E.D. Perry. 2019. "The Role of Peer Effects in Natural Resource Appropriation: The Case of Groundwater," *American Journal of Agricultural Economics*, 101(1): 154-171.

Sampson, G.S. 2018. "Economic Spillovers in Spatial Harvest Behavior," *Ecological Economics*, 145(2018): 57-74.

Sampson, G.S., J.N. Sanchirico, C.A. Roheim, S. Bush, J.E. Taylor, E.H. Allison, J.L. Anderson, N. Ban, R. Fujita, S. Jupiter, and J.R. Wilson. 2015. "Secure Sustainable Seafood from Developing Countries," *Science* 348(6234): 504-506.

Farzan, S., D. Young, A. Dedrick, M. Hamilton, E. Porse, G.S. Sampson, and P. Coates. 2015. "Western Juniper Management: Assessing Policies for Greater Sage-Grouse Habitat and Rangeland Productivity," *Environmental Management* 56(3): 675-683.

## Working Papers

(\* denotes graduate student coauthor)

Edwards, E., N.P. Hendricks and G.S. Sampson. "The Capitalization of Incomplete Property Rights to the Groundwater Commons." Revise and resubmit. *American Journal of Agricultural Economics*.

Sampson, G.S., J. Aguilar, C. Baldwin, J. Davidson, and H. Mehl. "Water management and Information Gaps in the High Plains Aquifer." Revise and resubmit. *Journal of the ASFMRA*.

Gardner, G. and G.S. Sampson. "Groundwater Quality vs. Groundwater Quantity. Combining Information on Irrigator Concerns with Past Water Use and Cropping Behavior." Under review.

Gardner, G., G. Tonsor, and G.S. Sampson. "Cover Crop and No-Till Adoption: What Affects Willingness to Accept of Cover Crops and No-Till Contracts?"

Al-Sudani, A., J. Bergtold and G.S. Sampson. "Farmer Adjustments to Water Scarcity in the Kansas High Plains Aquifer."

## Outreach and Other Publications

Hendricks, N.P. and G.S. Sampson. 2022. "The Value of Groundwater in the High Plains Aquifer of Western Kansas." Kansas State University Department of Agricultural Economics Extension Publication. <https://agmanager.info/ag-policy/water-policy/value-groundwater-high-plains-aquifer-western-kansas>

Lew, D.K., G.S. Sampson, A. Himes-Cornell, J. Lee, and B. Gabrer-Yonts. 2015. "Costs, Earnings, and Employment in the Alaska Saltwater Sport Fishing Charter Sector, 2011-2013," *NOAA Technical Memorandum NMFS-AFSC* (Peer reviewed).

Burtraw, D., A. Krupnick, and G.S. Sampson. 2012. "The True Cost of Electric Power," Resources for the Future Report, Washington, DC.

Sampson, G.S. 2009. "Solar Power Installations on Closed Landfills: Technical and Regulatory Considerations". Report Prepared for US EPA Office of Solid Waste and Emergency Response, Office of Superfund Remediation and Technology Innovation.

### Selected Works in Progress

Impact of Conservation Reserve Program Enrollment on Agricultural Land Values, with J. Yu.

Technological Adaptation to Water Use Curtailments, with E. Perry and J. Yu.

### Teaching Experience

**Instructor**, Kansas State University, Department of Agricultural Economics, AGEC 936: Quantitative Topics in Agricultural Economics (PhD Level, Spring 2022, Spring 2023)

**Instructor**, Kansas State University, Department of Agricultural Economics, AGEC 925: Advanced Environmental and Natural Resource Economics (PhD Level, Fall 2017, Spring 2021)

**Instructor**, Kansas State University, Department of Agricultural Economics, AGEC 825: Natural Resource Policy (Master's and PhD Level, Fall 2016, Fall 2018, Fall 2020)

**Instructor**, Kansas State University, Department of Agricultural Economics, AGEC 525: Natural Resource and Environmental Economics (Undergraduate Level, Fall 2018, Fall 2019, Fall 2020, Fall 2021, Fall 2022, Fall 2023)

### Grants and Funded Research

Derby, M. (PI), J. Aguilar (I), D. Bolton (I), R. Hansen (I), G. Hettiarachchi (I), G. Jha (Co-PI), and G.S. Sampson (Co-PI). "Supporting Rural Livelihoods in the Water-stressed Central High Plains: Microbial Innovations for Climate-resilient Agriculture (MICRA)." (\$1,418,382). National Science Foundation. *August 2023 - July 2027*. Allocation of credit: 17%.

Baldwin, C. (PI), K. Harmony (Co-PI), A. Ricketts (Co-PI), and G.S. Sampson (Co-PI). "Using Vulnerability Analysis to Guide Woody Plant Control Outreach Efforts in Support of Maintaining and Improving NRCS's Kansas Great Plains Grassland Initiative-identified Core Grasslands in Kansas." (\$843,870). USDA NRCS. *September 2022 - September 2025*. Allocation of credit: 25%.

Baldwin, C. (PI), J. Aguilar (Co-PI), and G.S. Sampson (Co-PI). "Creating Fresh Approaches to Water Use Efficiency for Communities and Wildlife in a Water-stressed Area of Central Kansas." (\$514,987). The Nature Conservancy. *September 2020 - February 2023*. Allocation of credit: 5%.

Sampson, G.S. (PI) and D. Presley (Co-PI), "Assessing Trade-Offs Between Agricultural Intensification and Natural Resources." (\$69,852). John and Della Hodler Research Fund. *October 2018 - October 2020*.

Vipham, J.L. (PI), J. DeRouchey (Co-PI), C. Rivard (Co-PI), G.S. Sampson (Co-PI), and Z. Stewart (Co-PI), "Multidimensional Trade-Off Analysis of Integrated Animal-Horticulture Farming Systems for Improved Smallholder Farmer Adoption Recommendations." (\$633,204). UC Davis Horticulture Innovation Lab and USAID. *February 20, 2017 - July 31, 2019*. Allocation of credit: 0%.

### Selected Presentations, Workshops, Posters

**2022:** Priming the Pump for Groundwater Markets, hosted by Property and Environment Research Center, "Agricultural Land Market Value of Heterogeneous Groundwater Allocations under Prior Appropriation," with E. Edwards and N.P. Hendricks.

**2022:** Agricultural and Applied Economics Association Annual Meeting, "Does Irrigation Behavior Coordinate with Irrigator Perceptions of Water Quality?," with G. Gardner.

**2022:** Western Agricultural Economics Association Annual Meeting, "The Cost of On-farm Carbon Sequestration: The Impact of Climate Heterogeneity on Producer Willingness to Accept," with G. Gardner.

**2021:** Agricultural and Applied Economics Association Annual Meeting, "Land Value Impacts of Ethanol Market Expansion by Irrigation Status," with G. Gardner.

**2021:** Kansas State University Department of Agricultural Economics

**2020:** Agricultural and Applied Economics Association Annual Meeting, "Local Irrigation Response to Ethanol Production in the High Plains Aquifer," with A. Al-Sudani and J. Bergtold.

**2019:** Kansas State University Risk and Profit Conference, “The Effect of Wind Turbines, Groundwater Stocks, and Irrigation on Land Values.”

**2019:** Agricultural and Applied Economics Association Annual Meeting, “On-farm and Near-farm Effects of Wind Turbines on Agricultural Land Values,” with E. Perry and M. Taylor.

**2019:** Association of Environmental and Resource Economists Annual Meeting, “Land Market Valuation of Groundwater,” with N. Hendricks and M. Taylor.

**2018:** Heartland Environmental and Resource Economics Workshop, “Land Market Valuation of Groundwater,” with N. Hendricks and M. Taylor.

**2018:** Agricultural and Applied Economics Association Annual Meeting, “Peer Effects in the Diffusion of Water Saving Agricultural Technologies,” with E. Perry.

**2018:** Agricultural and Applied Economics Association Annual Meeting, “Land Market Valuation of Groundwater Availability,” with N. Hendricks and M. Taylor.

**2018:** UC Davis Horticulture Innovation Lab Annual Meeting, “Multidimensional Trade-Off Analysis of Integrated Animal-Horticulture Farming Systems for Improved Smallholder Farmer Adoption Recommendations,” with J. Vipham, L. Hok, J. Derouchey, K. Sath, C. Rivard, P. Srean, A. Yoeu, Z. Stewart, C. Leangsrun.

**2017:** Association of Environmental and Resource Economists Annual Meeting, “The Role of Peer Effects in Resource Extraction Technologies: The Case of Groundwater Irrigation in Kansas,” with E. Perry.

**2017:** Agricultural and Applied Economics Association Annual Meeting, “The Role of Peer Effects in Resource Extraction Technologies: The Case of Groundwater Irrigation in Kansas,” with E. Perry.

**2016:** Association of Environmental and Resource Economists Annual Meeting, “Economic Spillovers in Spatial Harvest Behavior.”

**2016:** Southern Economic Association Annual Meeting, “Exploitation of a Mobile Resource with Costly Cooperation,” with J. Sanchirico.

**2015:** Kansas State University Department of Agricultural Economics

**2015:** Property and Environment Research Center

**2015:** Agricultural and Applied Economics Association Annual Meeting, “Cooperation, Externalities, and Spatial Property Rights: Implications for Small Scale Fisheries Management,” with J. Sanchirico and J. Wilen

**2015:** North American Association of Fisheries Economists Forum, “Cooperation, Externalities, and Spatial Property Rights: Implications for Small Scale Fisheries Management,” with J. Sanchirico and J. Wilen

**2014:** Small Scale Fisheries Management Reform and Habitat Conservation (hosted by David and Lucille Packard Foundation), with E. Allison, J. Anderson, N. Ban, S. Bush, R. Fujita, S. Jupiter, C. Roheim, J. Sanchirico, J.E. Taylor, and J. Wilson.

**2013:** UC Davis REACH IGERT Workshop (hosted by National Science Foundation), with A. Dedrick, S. Farzan, M. Hamilton, E. Porse, and D. Young.

## Fellowships and Awards

**Property and Environment Research Center**, Graduate Fellowship (2015)

**National Science Foundation**, IGERT Fellowship for Designing management scale for complex marine ecosystems (2015)

**University of California, Davis**, Henry Jastro Research Grant (2015-2016)

**University of California, Davis**, Graduate Student Travel Award (2015)

**National Science Foundation**, IGERT Fellowship for Responding to rapid environmental change (2011-2013)

**US Environmental Protection Agency**, National Network for Environmental Management Studies Fellowship (2009)

## Graduate Students

Grant Gardner (major advisor), Ph.D. (2022), first position: University of Kentucky

Gabriela Perez-Quesada (committee), Ph.D. (2021), first position: University of Tennessee

Emily Parker (committee), M.S. (2021)

Amer Al-Sudani (co-major advisor), Ph.D. (2021), first position: Louisiana State University post-doc

Juhee Lee (committee), Ph.D. (2020), first position: UC Riverside post-doc

### Scholarly Service

Peer reviewer for:

*Journal of the Association of Environmental and Resource Economists*

*American Journal of Agricultural Economics*

*Environmental and Resource Economics*

*Land Economics*

*Resource and Energy Economics*

*Journal of Agricultural and Resource Economics*

*Journal of the AAEA*

*Marine Resource Economics*

*Water Resources Research*

*Journal of the American Water Resources Association*

*Energy Journal*

*Agricultural Water Management*

*Global Environmental Change*

*Water Resources and Economics*

*Irrigation Science*

*Natural Resource Modeling*

*Fisheries Research*

*Fish and Fisheries*

*USDA NIFA Agricultural and Food Research Initiative grant panel 2021*

*AAEA Annual Meeting 2019 abstract referee*

*USDA-NIFA Hatch Proposal*

### Department, University, and Professional Service

Chair, Environmental Economics Section of the Association of Agricultural and Applied Economics, 2022

K State Global Food Systems Seed Grant Review Panel, 2020

Department of Agricultural Economics Representative, Northeast Extension Agricultural Economist Screening Committee, Kansas Farm Management Association, 2019

Department of Agricultural Economics Graduate Program Committee, 2018 - Present

Department of Agricultural Economics Ph.D. Preliminary Exam Committee, 2018-2019, 2023-2024.