

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)

Edwards, E., N.P. Hendricks and G.S. Sampson. 2024. "The Capitalization of Property Rights to Groundwater." *American Journal of Agricultural Economics*, <https://doi.org/10.1111/ajae.12494>

Gardner, G. and G.S. Sampson. 2024. "Groundwater Quality vs. Groundwater Quantity. Combining Information on Irrigator Concerns with Past Water Use and Cropping Behavior." *Water Resources and Economics*, 47: 100246, <https://doi.org/10.1016/j.wre.2024.100246>.

Sampson, G.S., J. Aguilar, C. Baldwin, J. Davidson, and H. Mehl. 2024. "Water management and Information Gaps in the High Plains Aquifer." *Journal of the ASFMRA*, 2024: 116-129.

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/aepp.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)

Gardner, G., G.S. Sampson, and S. Zhao. “Misalignment in Carbon Credit Programs: Insights from Producer Preferences for Cover Crop and No-Till Contracts.” Under review.

Sampson, G.S. and J. Yu. “Unpacking the Farmland Capitalization Effect of Ethanol Establishment.”

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, AGECE 936: Quantitative Topics in Agricultural Economics (PhD Level, Spring 2022, Spring 2023, Spring 2024)

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

Instructor, Kansas State University, Department of Agricultural Economics, AGECE 825: Natural Resource Policy (Master's and PhD Level, Fall 2016, Fall 2018, Fall 2020, Fall 2024)

Instructor, Kansas State University, Department of Agricultural Economics, AGECE 525: Natural Resource and Environmental Economics (Undergraduate Level, Fall 2018, Fall 2019, Fall 2020, Fall 2021, Fall 2022, Fall 2023, Fall 2024)

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. Harmon (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

2023: Agricultural and Applied Economics Association Annual Meeting, "Causal Estimates on the Impact of Bio-Ethanol Plants on Farmland Prices," with J. Yu.

2023: Agricultural and Applied Economics Association Annual Meeting, "Agricultural Land Market Value of Prior Appropriation Water Rights," with E.C. Edwards and N.P. Hendricks.

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. Leangrun.

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.