

December 19, 2023

**CURRICULUM VITAE**  
ARIC P. SHAFRAN

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Education

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|-----------------------------|------|--|
| Ph.D.                       | 2007 | Economics, University of Colorado at Boulder |
| M.A.                        | 2003 | Economics, University of Colorado at Boulder |
| M. Engineering              | 1999 | Computer Science, Cornell University         |
| B.S. <i>magna cum laude</i> | 1999 | Computer Science, Cornell University         |

Employment

Professor, California Polytechnic State University, 2019 - present  
Economics Area Chair, California Polytechnic State University, 2017 - 2022  
Associate Professor, California Polytechnic State University, 2013 - 2019  
Assistant Professor, California Polytechnic State University, 2007 - 2013  
Graduate Research Assistant and Instructor, University of Colorado at Boulder, 2001 - 2007  
Software Engineer, Oracle Corporation, 1999 - 2001

Fields of Interest

Economics of Natural Hazards and Disasters  
Decision Making Under Risk and Uncertainty  
Experimental and Behavioral Economics  
Environmental and Resource Economics

Refereed Publications

Journal Articles

1. Hamilton, Stephen, Scott Kjorlien, Ethan Ligon, and Aric Shafran, "Spatial Procurement of Farm Products and the Supply of Processed Foods: Application to the Tomato Processing Industry," *Review of Industrial Organization*, forthcoming.
2. Hamilton, Stephen, Timothy Richards, Aric Shafran, and Kathryn Vasilaky, "Farm Labor Productivity and the Value of Mechanization," *American Journal of Agricultural Economics*, 2022, 104: 1435-59.
3. Allison, Blake A., Jason J. Lepore, and Aric P. Shafran, "Prize Scarcity and Overdissipation in All-Pay Auctions," *Economic Inquiry*, 2021, 59: pp. 361-74.

4. Kröll, Stephan and Aric P. Shafran, "Spatial Externalities and Risk in Interdependent Security Games," *Journal of Risk and Uncertainty*, 2018, 56: pp. 237-57.
5. Waichman, Israel, Ch'ng Kean Siang, Till Requate, Aric P. Shafran, Eva Camacho-Cuena, Yoshio Iida, and Shosh Shahrabani, "Reciprocity in Labor Market Relationships: Evidence from an Experiment Across High-Income OECD Countries," *Games*, 2015, 6: pp. 473-494.
6. Shafran, Aric P., "Equivalent Option Price With Supply Uncertainty," *Bulletin of Economic Research*, 2014, 66: pp. S1-S16.
7. Lepore, Jason J. and Aric P. Shafran, "Consumer Rationing and Cournot Outcomes: Experimental Evidence," *Southern Economic Journal*, 2013, 79: pp. 727-46.
8. Shafran, Aric P., "Learning in Games with Risky Payoffs," *Games and Economic Behavior*, 2012, 75: pp. 354-71.
9. Shafran, Aric P., "Self-Protection Against Repeated Low Probability Risks," *Journal of Risk and Uncertainty*, 2011, 42: pp. 263-85.
10. Shafran, Aric P. and Jason J. Lepore, "Subsidization to Induce Tipping," *Economics Letters*, 2011, 110: pp. 32-35.
11. Shafran, Aric P., "Interdependent Security Experiments," *Economics Bulletin*, 2010, 30: pp. 1950-62.
12. Shafran, Aric P., "Risk Externalities and the Problem of Wildfire Risk," *Journal of Urban Economics*, 2008, 64: pp. 488-95.

#### Book Chapters

1. Shafran, Aric P., "Assessment of Economic Outcomes in Nation-Building Operations," in *Assessing War: The Challenge of Measuring Success and Failure* edited by Leo J. Blanken, Hy Rothstein, and Jason J. Lepore, Georgetown University Press, 2015.

#### Working Papers and Works in Progress

1. "A Dynamic Incentive: Estimating the Effects of Bonuses Over Time, Duration and Across Peers for Workers in the Field" (with Kathryn Vasilaky)
2. "Demand Uncertainty Leads to Diverse Collusive Dynamics" (with Chris Knittel and Jason Lepore)
3. "An Experimental Comparison of Standard and All-Loss All-Pay Auctions" (with Blake Allison and Jason Lepore)
4. "Urban Sprawl and the Dangers of Public Provision of Fire Suppression" (with Jason Lepore)
5. "Promoting Natural Hazard Risk Mitigation Behavior: A Policy Experiment" (with Pallab Mozumder and Jamie Kruse)

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Presentations at Professional Meetings

1. Economic Science Association Asia-Pacific Meeting, Seoul, Korea, May 2023 (2 papers presented)
2. Economic Science Association North American Meeting, Tucson, AZ, October 2021
3. Economic Science Association North American Meeting, Los Angeles, CA, October 2019
4. Western Economic Association International Annual Conference, Vancouver, Canada, June 2018
5. Bay Area Behavioral and Experimental Economics Workshop, San Francisco, CA, May 2018
6. International Conference of the French Association of Experimental Economics, Rennes, France, June 2017
7. Western Economic Association International Conference, Wellington, NZ, January 2015
8. Western Economic Association International Annual Conference, Denver, CO, June 2014
9. Bay Area Behavioral and Experimental Economics Workshop, Palo Alto, CA, May 2014
10. Western Economic Association International Annual Conference, Seattle, WA, June 2013
11. Bay Area Behavioral and Experimental Economics Workshop, Santa Clara, CA, May 2012
12. Southern Economic Association Annual Meeting, Washington, DC, November 2011 (2 papers presented)
13. Economic Science Association North American Meeting, Tucson, AZ, November 2011
14. Economic Science Association North American Meeting, Tucson, AZ, November 2010
15. Environmental and Resource Economics Workshop, University of Colorado, Vail, CO, September 2010
16. Camp Resources, North Carolina State University Center for Environmental and Resource Economics Policy, Asheville, NC, August 2009
17. International Research Committee on Disasters Researchers Meeting, Broomfield, CO, July, 2009
18. Southern Economic Association Annual Meeting, Washington, DC, November 2008 (2 papers presented)
19. Economic Science Association North American Meeting, Tucson, AZ, November 2008
20. Environmental and Resource Economics Workshop, University of Colorado, Vail, CO, September 2007
21. Heartland Environmental and Resource Economics Workshop, Ames, IA, September 2006
22. Annual International Meeting of the Economic Science Association (ESA), Atlanta, GA, June 2006

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23. Association of Environmental and Resource Economists (AERE) Session at Allied Social Science Association (ASSA) Annual Meeting, Boston, MA, January 2006
24. Occasional California Workshop on Environmental and Natural Resource Economics, University of California at Santa Barbara, Santa Barbara, CA, October 2005
25. Camp Resources, North Carolina State University Center for Environmental and Resource Economics Policy, Wilmington, NC, August 2005
26. Summer Institute on Public Policy and the Environment, National Bureau of Economic Research, Boston, MA, July 2005
27. Environmental and Resource Economics Workshop, University of Colorado, Vail, CO, October 2004

#### Honors, Grants, and Fellowships

1. "Understanding the Costs and Limits of Vegetation Management for Wildfire Mitigation in Coastal California: a Comprehensive Ecological and Economic Study at the Soquel Demonstration State Forest," CAL FIRE Forest Health Research Program, 2021
2. "Immigration Reform and Farm Labor Shortages," (with Stephen Hamilton, Kathryn Vasilaky, Timothy Richards, and Jennifer Ifft), U.S. Department of Agriculture, 2019
3. "The Provision of Public Goods That Reduce Risk," OCOB Summer Research Grant, 2018
4. "Prize Scarcity and Bidding Behavior in All-Pay Auctions," OCOB Summer Research Grant, 2016
5. "An Experimental Analysis of All-Pay Contests," (with Jason Lepore), Cal Poly Research, Scholarship, and Creative Activities (RSCA) Grant, 2014
6. "Market Transfer and Emissions Leakage from AB32 Regulations in California's Food Processing Industries," (with Steve Hamilton), California Air Resources Board, 2014
7. "Reciprocity Across Countries: Evidence from a Gift-Exchange Experiment", OCOB Summer Research Grant, 2013
8. "Hybrid Delivery of Economics 201: Principles of Economics," (with Jason Lepore and Michael Marlow), OCOB Online Core Course Development Challenge, 2012
9. "Spatial Externalities in Interdependent Security Games," OCOB Summer Research Grant, 2012
10. "The Public Provision of Fire Suppression," OCOB Summer Research Grant, 2011
11. "Tipping the Standard in a Network Market," Cal Poly State Faculty Support Grant, 2010
12. Fellow, NSF Enabling the Next Generation of Hazards and Disasters Researchers Project, 2009
13. "Learning in Coordination Games with Risky Payoff," OCOB Summer Research Grant, 2008
14. University of Colorado Graduate Award for Public Policy Research, 2005

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15. Reuben A. Zubrow Graduate Award for Economics Research, 2004

Invited Seminar Presentations

1. University of California at Merced, 2015
2. Colorado State University (Keynote Speaker, Graduate Research Symposium), 2010
3. Public Policy Institute of California, 2007
4. University of Washington, 2007
5. California Polytechnic State University, 2007
6. Appalachian State University, 2007
7. Gettysburg College, 2007
8. U.S.D.A. Economic Research Service, 2007
9. University of California at Riverside, 2007
10. California State University at Long Beach, 2007
11. University of Maryland at Baltimore County, 2007
12. University of Colorado at Boulder, 2006

Professional Development Activities

1. Allied Social Science Association Annual Meeting (January 2017)
2. Allied Social Science Association Annual Meeting (January 2016)
3. California State University Water Resources and Policy Initiatives Conference (April 2011)
4. Teaching Principles of Economics Symposium, Florida Atlantic University (February 2011)
5. Invited Panelist, Department of Homeland Security Wildland Urban Interface Fire Colloquium (June 2009)
6. Junior Faculty Learning Community, Cal Poly Center for Teaching and Learning (2009-10 academic year)
7. California State University Water Resources and Policy Initiatives Conference (April 2009)

Courses Taught

1. Computing and Machine Learning for Economics (Cal Poly GSE 524)
2. Essential Mathematics for Economic Analysis (Cal Poly GSE 510)
3. Managerial Economics (Cal Poly GSB 523)
4. Urban Economics (Cal Poly Econ 434)

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5. Economics of Land and Water (Cal Poly Econ 435)
6. Applied Senior Project (Cal Poly Econ 464)
7. Principles of Microeconomics (Cal Poly Econ 221)
8. Principles of Macroeconomics (Cal Poly Econ 222)
9. Survey of Economics (Cal Poly Econ 201)
10. Environmental Economics (U. Colorado Econ 3545)
11. Math Tools for Economists I and II (U. Colorado Econ 1078 and 1088)

#### Professional Service

1. Ad Hoc Referee for: *B.E. Journal of Economic Analysis and Policy*, *Ecological Economics*, *Economic Inquiry*, *Journal of the Association of Environmental and Resource Economists*, *Journal of Economic Behavior and Organization*, *Journal of Environmental Economics and Management*, *Journal of Risk and Insurance*, *Journal of Risk and Uncertainty*, *Journal of Urban Economics*, *Land Economics*, *Resource and Energy Economics*, *Risk Analysis*, *Southern Economic Journal*, *Stability: International Journal of Security and Development*, *Strategic Behavior and the Environment*
2. Reviewer of article submissions for AERE Summer Conference 2017
3. Discussant at: Western Economic Association International Meetings (June 2018, January 2015, June 2014, June 2013), Southern Economic Association Annual Meeting (November 2011, November 2008)
4. University of Colorado Environmental and Resource Economics Workshop, conference registration and presiding over sessions (2004-2006)

#### Community Outreach

1. Invited Speaker, San Luis Obispo Lions Club (November 2011)