

MATTHEW WIBBENMEYER

mwibbenmeyer.com
mwibbenmeyer@gmail.com

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

Placement Director: Emanuel Vespa vespa@ucsb.edu 805-893-7309
Graduate Administrator: Mark Patterson mark.patterson@ucsb.edu 805-893-2205

Office Contact Information

2127 North Hall
University of California, Santa Barbara
Santa Barbara, CA 93106
Cell phone number: 541-556-8344

Home Contact Information

1017 East Haley St. Unit B
Santa Barbara, CA 93103

Undergraduate Studies:

B.A., Economics & Biology, Williams College, *cum laude*, 2007

Graduate Studies:

University of California, Santa Barbara, 2012 to present
Ph.D. Candidate in: Economics
Dissertation Title: “*Essays on the economics and politics of wildfire management*”
Expected Completion Date: June 2018

References:

Professor Andrew Plantinga
2400 Bren Hall
University of California, Santa Barbara
Santa Barbara, CA 93106
805-893-7612, plantinga@ucsb.edu

Professor Olivier Deschenes
2127 North Hall
University of California, Santa Barbara
Santa Barbara, CA 93106
805-893-5617, olivier@econ.ucsb.edu

Professor Sarah Anderson
2400 Bren Hall
University of California, Santa Barbara
Santa Barbara, CA 93106
805-893-5886, sanderson@bren.ucsb.edu

University of Montana, 2009-2010

M.S. in: Resource Conservation

Thesis Title: “*Evaluation of Social Preferences for Invasive Weed Management in the Interior Pacific Northwest*”

Research and Teaching Fields: Environmental & Resource Economics, Applied Econometrics, Public Economics, Political Economy

Teaching Experience:

Spring 2017 Economics 10A: Intermediate Microeconomics, teaching assistant for
Professor Jon Hartman

Fall 2016	Economics 140A: Introduction to Econometrics I, teaching assistant for Professor Dick Startz
Winter & Spring 2016	Economics 140B: Introduction to Econometrics II, teaching assistant for Professors Olivier Deschenes & Heather Royer
Fall 2015	Economics 140A: Introduction to Econometrics I, teaching assistant for Professor Dick Startz
Winter 2015 & Spring 2015	Economics 140A: Introduction to Econometrics I, teaching assistant for student instructors Corey White & Austin Jones
Fall 2014	Economics 10A: Intermediate Microeconomics, teaching assistant for Professor Jon Hartman
Spring 2014	Statistics and Applied Probability 5E: Statistics for Economics, teaching assistant for Professor Vasudevan Mangalam
Fall 2013 & Winter 2014	Economics 1: Principles of Microeconomics, University of California, Santa Barbara, teaching assistant for Professor Jon Sonstelie
Spring 2013	Statistics and Applied Probability 5E: Statistics with Economics and Business Applications, teaching assistant for Professor Travis Loux
Fall 2012 & Winter 2013	Economics 1: Principles of Microeconomics, University of California, Santa Barbara, teaching assistant for Professor Jon Sonstelie
January 2012	Technical Fire Management: Financial Forest Administration, Washington Institute, Duvall, Washington, adjunct instructor
Autumn 2011	Forest Operations and Project Planning, University of Montana, adjunct instructor with Prof. Beth Dodson
Spring 2011	Forest and Environmental Economics, University of Montana adjunct instructor

Research Experience and Other Employment:

2015-2017	Earth Research Institute, Graduate Student Researcher
2011-2012	US Forest Service Rocky Mountain Research Station, Research Assistant
2011-2012	US Forest Service Rocky Mountain Research Station, Research Assistant
2009-2010	University of Montana, Research Assistant

Professional Activities:

Presenter, Heartland Environmental and Resource Economics Workshop, September 2017
 Presenter, University of Colorado Environmental and Resource Economics Workshop, September 2017
 Presenter, Annual Conference of the Association of Environmental and Resource Economists, June 2016
 Discussant, Searle Workshop, The Politics and Economics of Wildfire Policy, October 2014

Honors, Scholarships, and Fellowships:

2017	Summer Fellowship, Earth Research Institute, University of California, Santa Barbara
2016	Paul A. Sabatier Best Conference Paper Award, awarded by the Science, Technology, & Environmental section of the American Political Science Association
2016	Summer Fellowship, Earth Research Institute, University of California, Santa Barbara
2014-2015	Jennifer Jo Williamson Fellowship, Department of Economics University of California, Santa Barbara

Publications:

Hand, M.S., **Wibbenmeyer, M.**, Calkin, D.E., Thompson, M.P. (2015) Risk preferences, probability weighting, and strategy tradeoffs in wildfire management. *Risk Analysis* 35(10) 1976-1891.

Wibbenmeyer, M., Hand, M.S., Calkin, D.E., Venn, T.J., Thompson, M.P. (2013) Risk preferences in strategic wildfire decision making: a choice experiment with US wildfire managers. *Risk Analysis* 33(6) 1021-1037.

Calkin, D.E., Venn, T.J., **Wibbenmeyer, M.**, Thompson, M.P. (2012) Estimating wildland fire managers' preferences toward competing strategic suppression objectives. *International Journal of Wildland Fire* 22(2) 212-222.

Research Papers:

“Burning down the house: Wildfire and the benefits of natural disaster mitigation” (Job Market Paper)

What are the benefits of mitigating natural disasters? While a large literature investigates the costs of natural disasters, the benefits of disaster mitigation are relatively unknown. In part, this may be because the challenge of identifying an appropriate counterfactual. This paper examines benefits of wildfire mitigation, a long-running form of natural disaster mitigation, using boundaries of historical wildfires within the western U.S. To estimate counterfactual wildfire outcomes, I adopt a two-step strategy. In the first step, I make use of outputs from a state-of-the-art wildfire simulation model, as well as spatial data describing at-risk assets across the landscape. Within a novel spatial duration model, I use these data to estimate the relative contributions of fire suppression effort and natural factors to the probability a wildfire will be extinguished. In the second step, results from the model of fire extinction probabilities are used to estimate predicted fire spread with and without suppression effort, and these probabilities are used to estimate expected avoided structure losses due to wildfire suppression. I find that, at least in the short-run, wildfire suppression exceeds its cost.

“Salience and the government provision of public goods” with Sarah Anderson and Andrew Plantinga

This paper examines the consequences of salience for the government provision of public goods. Salience is a common behavioral bias whereby people's attention is drawn to salient features of a decision problem, leading them to overweight prominent information in subsequent judgments. We analyze the case in which the public's demand for the good is distorted by salient events, and explore how salience influences public good allocation and efficiency. Theoretical predictions regarding public good allocation are ambiguous and depend on the magnitude of the change in payoffs and the extent of salience effects. We test whether salience increases or decreases allocation of government projects to reduce wildfire severity near wildland-adjacent communities. Even though the occurrence of a wildfire likely reduces the severity of future fires in the same area, it may increase the likelihood that fuels management projects are placed nearby if wildfire events strongly increase the salience of losses under future fires. We find strong evidence that the salience effects increase the likelihood of fuels management projects, and use robustness checks to eliminate competing explanations for our results. Our salience framework may also offer insights into government responses to terrorism, natural disasters, disease outbreaks, and environmental catastrophes.

“Salience and (mal-)adaptive responses to climate-change” with Sarah Anderson, Ryan Bart, Maureen Kennedy, Andrew MacDonald, Max Moritz, Andrew Plantinga, Christina Tague, and Ethan Turpin