

# JUDE BAYHAM

Department of Agricultural and Resource Economics, Colorado State University  
B320 Clark Building Fort Collins, CO 80523-1172

Phone: (530) 518-5426 Email: [jbayham@colostate.edu](mailto:jbayham@colostate.edu)

<https://sites.google.com/site/judebayham/> ORCID: 0000-0001-5383-2714

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## EDUCATION

Ph.D., Economics. 2013. Washington State University.

M.Sc., Applied Economics. 2009. University of Idaho.

B.A., Economics. 2006. California State University, Chico.

## EMPLOYMENT AND AFFILIATION

Assistant Professor. Department of Agricultural and Resource Economics, Colorado State University. August, 2017 - Present.

Assistant Professor. California State University, Chico. August, 2015 - August, 2017.

Faculty Associate. Center for Water and the Environment, California State University, Chico. August 2015 - August, 2017.

Lab Associate. School of Forestry and Environmental Studies, Yale University.  
August, 2015 - August, 2016

Postdoctoral Associate. School of Forestry and Environmental Studies, Yale University.  
August, 2013 - July, 2015.

Graduate Assistant. School of Economic Sciences, Washington State University.  
Fall 2009 - Spring 2013.

Graduate Assistant. Department of Agricultural Economics, University of Idaho.  
Fall 2007 - Summer 2009.

Senior Researcher. Center for Economic Development, California State University, Chico Research Foundation. May 2005 - August 2007.

## REFEREED PUBLICATIONS

Berry, Kevin, Julia E. Anderson, **Jude Bayham**, Eli P. Fenichel (Forthcoming). [Linking Time-Use Data to Explore Health Outcomes: Choosing to Vaccinate Against Influenza](#). *EcoHealth*: doi: 10.1007/s10393-017-1296-z

**Bayham, Jude**, Kasey E. Cole, Frank E. Bayham (Forthcoming). [Social Boundaries, Resource Depression, and Conflict: A Bioeconomic Model of the Intertribal Buffer Zone](#). *Quaternary International*: doi: 10.1007/s10640-017-0142-7

Berry, Kevin, **Jude Bayham**, Spencer R. Meyer, Eli P. Fenichel (Forthcoming). [The Allocation of Time and Risk of Lyme: A Case of Ecosystem Service Income and Substitution Effects](#). *Environmental and Resource Economics*: doi: 10.1007/s10640-017-0142-7

Fenichel, Eli P., Joshua K. Abbott, **Jude Bayham**, Whitney Boone, Erin M. K. Haacker, and Lisa Pfeiffer (2016). [Measuring the Value of Groundwater and Other Natural Capital](#). *Proceedings of the National Academy of Sciences* 113(9), 2382-2387. doi: 10.1073/pnas.1513779113

**Bayham, Jude** and Eli P. Fenichel. (2016). [Capturing Household Transmission in Compartmental Models of Infectious Disease](#). In *Mathematical and Statistical Modeling for Emerging and Re-emerging Infectious Diseases* (pp. 329-340). Springer Publishing International.

**Bayham, Jude**, Nicolai V. Kuminoff, Quentin Gunn, and Eli P. Fenichel. 2015. [Measured Voluntary Avoidance Behaviour during the 2009 A/H1N1 Epidemic](#). *Proceedings of the Royal Society B* 282 (1818): 20150814. doi:10.1098/rspb.2015.0814.

Espínola-Arredondo, Ana, Félix Muñoz-García, and **Jude Bayham**. 2014. [The Entry-Detering Effects of Inflexible Regulation](#). *Canadian Journal of Economics* 47(1): 298–324. doi:10.1111/caje.12075.

Devadoss, Stephen, and **Jude Bayham**. 2013. [US Ethanol Trade Policy: Pollution Reduction or Domestic Protection](#). *Review of International Economics*, 21(3): 568–584. doi:10.1111/roie.12056.

Devadoss, Stephen, and **Jude Bayham**. 2010. [Contributions of U.S. Crop Subsidies to Biofuel and Related Markets](#). *Journal of Agricultural and Applied Economics*, 42(4): 743–756.

## MANUSCRIPTS UNDER REVIEW

Bayham, Jude, Ana Espínola-Arredondo and Félix Muñoz-García. Entry Subsidies as Indirect Environmental Policy

## WORKING PAPERS

Bayham, Jude, Eli P. Fenichel, Nicolai V. Kuminoff, and Gerardo Chowell. Where the Wild Things Go: Time Reallocation in Response to School Closures During an Epidemic.

Bayham, Jude and Jonathan K. Yoder. Resource Allocation Under Fire.

Bayham, Jude and Jonathan K. Yoder. Wildfire Hazards

Anderson, Sarah, Jude Bayham, Heather Hodges, and Thomas Stratmann. CNN Drops: Inequality in Agency Management

## PROFESSIONAL REPORTS

Bayham, Jude & Jonathan Yoder. 2011. *Survival analysis of wildfire duration, cost, and size*. Report submitted to the U.S. Forest Service Southern Research Station for cooperative agreement RWU-FS-SRS-4804. August.

## GRANTS

Fall, 2016 – Spring, 2017. (PI, 100%). ePortfolio Pilot Project Faculty Learning Community Grant. \$5,250

August, 2016 – August, 2017. (co-PI, 33%). “Developing Novel Non-volatile, Reusable, Biodegradable Solvents from Biodiesel-Waste Glycerol” Environmental Protection Agency, 13th Annual P3 Awards: A National Student Design Competition for Sustainability Focusing on People, Prosperity and the Planet. Co-PIs: Dr. Lisa Ott, Chemistry and Dr. Janine Stone, Economics. \$15,000 (Complete)

May, 2016 – August, 2016. (PI, 100%). “The Implicit Cost of Home Protection in the Wildland Urban Interface” California State University Agricultural Research Institute Seed Grant. \$5,000 (Complete)

May, 2008 – May 2009. (PI, 100%). “Health Implications of Ethanol and Gasoline Blends” University of Idaho Student Grant Program. \$2,975 (Complete)

## PRESENTATIONS AND POSTERS

“Resource Allocation Under Fire” Pacific Northwest Regional Economics Conference, Bend, OR May, 2017; Economics Department Seminar, University of Nevada, Reno, March, 2017; The Politics and Economics of Wildfire Policy Conference at Bren School, UC Santa Barbara, October 26-28, 2014; AAEA & WAEA Meetings, San Francisco, CA July, 2015.

“Measured Voluntary Avoidance Behaviour during the 2009 A/H1N1 Epidemic” CSU, Chico November 2015.

“Estimating State Transitions: Application to Wildfire Suppression” Heartland Environmental and Resource Economics Workshop at Illinois Urbana-Champaign, October 31 - November 2, 2014; Occasional Workshop in Environmental and Resource Economics at UC Santa Barbara, 2015.

“Wildfire Hazards: The Cost of Protecting Homes in the Wildland Urban Interface” invited seminar at University of Wyoming, April 2, 2014.

“Damned If You Do, Damned If You Don’t: The Impact of Self-Sequester on the Transmission of Infectious Disease ” presented at MASpread workshop, March 31, 2014 at Princeton University.

“Aggregation and Estimation Bias in Heterogeneous Mixing Epidemiological Models” presented at Environmental Economics Seminar, February 20, 2014 at Arizona State University, and March 30 at Princeton University.

- “International Competition, Entry Subsidies, and Market Structure” presented at the Western Economic Association International annual meeting, June 28 to July 2, 2013 in Seattle, WA.
- “Resource Allocation Under Fire” presented at the BestNET Workshop, April 26, 2013 at Princeton University.
- “Wildfire Hazards” presented at Environmental Economics Seminar, Yale University, Fall 2013; the Agricultural and Applied Economics Association annual meeting, August 12 to 14, 2012 in Seattle, WA (Poster); Western Economic Association International annual meeting, June 29 to July 3, 2012 in San Francisco, CA; Canadian Agricultural Economics Society & Western Agricultural Economics Association joint annual meetings, June 29 to July 1, 2011 in Banff, Alberta Canada; and Western Forest Economists annual meetings. May 10 to 12, 2011 in Welches, OR.
- “U.S. Agricultural Supports and the Biofuel Industry” presented at 100th annual Agricultural and Applied Economics Association, Canadian Agricultural Economics Society, & Western Agricultural Economics Association Joint Meetings. July 25 to 27, 2010. Denver, CO (Poster).

## HONORS

- Outstanding Doctoral Dissertation (Honorable Mention). “[Characterizing Incentives: An Investigation of Wildfire Response and Environmental Entry Policy.](#)” Agricultural and Applied Economics Association. 2014.
- Selected to attend Short Course on Sustainability Science, Harvard Kennedy School of Government and Venice International University, May 17-23, 2014 in Venice, Italy.
- Outstanding Doctoral Dissertation. “Characterizing Incentives: An Investigation of Wildfire Response and Environmental Entry Policy.” School of Economic Sciences. Washington State University. 2013.
- Jeff Krautkraemer “Pay it Forward” Scholarship. 2011. (\$1,000)
- Outstanding Masters Thesis Award (Honorable Mention). “A General Equilibrium Analysis of Biofuel Market Policies.” Agricultural and Applied Economics Association. 2010.
- Outstanding Masters Thesis Award (Honorable Mention). “A General Equilibrium Analysis of Biofuel Market Policies.” Western Agricultural Economics Association. 2010.
- Outstanding Graduate Student Award. Gamma Sigma Delta. 2010.
- Outstanding Masters Research and Creative Activity Award. University of Idaho. 2010.
- Outstanding Master’s Thesis. “A General Equilibrium Analysis of Biofuel Market Policies.” Department of Agricultural Economics, University of Idaho. 2009.
- Iddings Research Fellowship. University of Idaho. 2008. (\$5,000)

## COURSES TAUGHT

- Introduction to Agricultural Business and Economics (ABUS 101), California State University, Chico. Spring 2017.
- Agricultural Policy (ABUS 451), California State University, Chico. Spring 2016, Fall 2016.
- Agricultural Production Economics and Quantitative Analysis (ABUS 301). California State University, Chico. Fall 2015, Spring 2016, Fall 2016, Spring 2017.

Computer Applications in Agriculture (ABUS 231). California State University, Chico. Fall 2015, Spring 2016, Spring 2017.

Fundamentals of Microeconomics, Washington State University. Summer 2012.

Fundamentals of Microeconomics (TA), Washington State University. Fall 2012.

(Instructor: Alan Love)

Master's Microeconomic Analysis (TA), Washington State University. Fall 2009, Fall 2010.

(Instructor: Jonathan Yoder)

Managerial Economics (TA), University of Idaho. Fall 2007.

(Instructor: Christopher McIntosh)

## SERVICE

May, 2017. Organized Session on Forestry and Wildfire at the Pacific Northwest Regional Economic Conference. Bend, OR.

January, 2017. Organized Session on Agriculture and Water for 17th Annual Economic Forecast Conference, Center for Economic Development. Chico, CA

42 Undergraduate Advisees. College of Agriculture, CSU, Chico.

## Referee:

*Journal of Environmental Economics and Management*

*Environmental and Resource Economics*

*Energy Economics*

*Journal of Agricultural and Resource Economics*

*International Journal of Wildland Fire*

*Journal of Forest Economics*

*Rangeland Ecology and Management*

*National Science Foundation (Geography and Spatial Sciences Program)*

*Environmental Science and Technology*

*Journal of Environmental Management*

*BMC Public Health*

*PLOS One*

*Scientific Reports (Nature)*

## PROFESSIONAL MEMBERSHIPS

American Economics Association, Agricultural and Applied Economics Association, Association of Environmental and Resource Economists, Western Agricultural Economics Association, International Association of Wildland Fire