KELLY MICHELE COBOURN
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EDUCATION

Ph.D., University of California, Davis, Agricultural and Resource Economics, 2009
Major Fields: Environmental and Natural Resource Economics, Econometrics
M.S., University of Maine, Resource Economics and Policy, 2004
Concentration: Community Economic Development
B.A. with High Distinction, University of Virginia, Economics, 2001

PROFESSIONAL EXPERIENCE

Assistant Professor, Virginia Polytechnic Institute and State University, Forest Resources and Environmental Conservation, 2013-present
Adjunct Graduate Faculty, Boise State University, Geosciences, 2013-present
Assistant Professor, Boise State University, Economics, 2009-2013
Research Associate, University of Maine, Resource Economics and Policy, 2005
Legislative Intern, Maine State Office of Policy and Legal Analysis, Committee on Agriculture, Conservation, and Forestry, 2003-2004

HONORS AND AWARDS

Outstanding Doctoral Dissertation Award, Agricultural and Applied Economics Association, 2010
Gordon A. King Outstanding Dissertation Award, University of California, Davis, 2009
Outstanding Master's Thesis Award, Agricultural and Applied Economics Association, 2005
Master's Thesis Award of Merit, Northeastern Agricultural and Resource Economics Association, 2005
Provost's Fellowship, University of Maine, 2002
High Distinction, University of Virginia Distinguished Majors Program in Economics, 2001
Phi Beta Kappa, University of Virginia, 2000

REFEREED PUBLICATIONS (* denotes student or postdoc)

Cobourn, K.M. 2015. "Externalities and Simultaneity in Surface Water-Groundwater Systems: Challenges for Water Rights Institutions," *American Journal of Agricultural Economics*, 97(3): 786-808.

Ghosh, S.*, **K.M. Cobourn**, and L. Elbakidze. 2014. "Water Banking, Conjunctive Administration, and Drought: The Interaction of Water Markets and Prior Appropriation in Southeastern Idaho," *Water Resources Research*, 50(8): 6927-6949.

Cobourn, K.M., E.R. Landa, G.E. Wagner. 2014. "Of Silt and Ancient Voices: Water and the Zuni Land and People," *National Center for Case Study Teaching in Science*.

Cobourn, K.M., R.E. Goodhue, and J.C. Williams. 2013. "Managing a Pest with Harvest Timing: Implications for Crop Quality and Price," *European Review of Agricultural Economics*, 40(5): 761-84.

Elbakidze, L., and **K.M. Cobourn**. 2013. "Economic Foundations for Interdisciplinary Modeling in Water Resources Management," *Journal of Contemporary Water Research and Education*, 152: 32-41.

Mooney, S., D.L. Young, **K.M. Cobourn**, and S. Islam. 2013. "Multidisciplinary Research: Implications for Agricultural and Applied Economists," *Journal of Agricultural and Applied Economics*, 45(2): 187-202.

Cobourn, K.M., H.J. Burrack, R.E. Goodhue, J.C. Williams, and F.G. Zalom. 2011. "Implications of Simultaneity in a Physical Damage Function," *Journal of Environmental Economics and Management*, 62(2): 278-289.

Cobourn, K.M., and N.F. Crescenti. 2011. "The Implications of Surface-Ground Water Hydrology for Optimal Conjunctive Management," *Western Economics Forum*, 10(2): 50-63.

Cobourn, K.M. 2011. "Incentives for Individual and Cooperative Management of a Mobile Pest: An Application to the Olive Fruit Fly in California," *American Journal of Agricultural Economics* (proceedings), 93(2): 652.

Cobourn, K.M. 2005. "Environmental Conservation on Agricultural Working Land: Assessing Policy Alternatives Using a Spatially Heterogeneous Land Allocation Model," *American Journal of Agricultural Economics* (proceedings), 87(5): 1337-1338.

Cobourn, K.M. 2005. "Environmental Conservation on Agricultural Working Land: Assessing Policy Alternatives Using a Spatially Heterogeneous Land Allocation Model," *Agricultural and Resource Economics Review* (proceedings), 34(2): 289-290.

OTHER PUBLICATIONS

Cobourn, K.M., E.C. Knoesen, H.J. Burrack, R.E. Goodhue, J.C. Williams, and F.G. Zalom. 2014. "Olive Fruit Fly: Timing the Harvest to Manage the Pest," *ARE Update*, 17(6): 5-8. University of California Giannini Foundation of Agricultural Economics.

Cobourn, K.M. 2012. Book Review of *The Economics and Politics of Climate Change*, eds. D. Helm and C. Hepburn, *Journal of Natural Resources Policy Research*, 4(4): 293-294.

WORKING PAPERS (* denotes student or postdoc)

Cobourn, K.M., G.S. Amacher, and R.G. Haight. "Cooperative Management of Invasive Species: A Dynamic Nash Bargaining Approach."

Cobourn, K.M., G.S. Amacher, L. Elbakidze. "Bargaining for Recharge: An Analysis of Cooperation and Conjunctive Surface Water-Groundwater Management for Irrigation."

Murray, E.*, **K.M. Cobourn**, A. Flores, and J. Pierce. "Impacts of Changing Snowmelt Timing on Non-irrigated Crop Yield."

Cobourn, K.M., L. Elbakidze, and S. Ghosh*. "Conjunctive Water Management in Hydraulically Connected Regions in the Western U.S." chapter in *Competition for Water Resources: Experiences and Management Approaches in the U.S. and Europe*, eds. J. Ziolkowska and J. Peterson.

GRANTS

14. **Cobourn, K.M.**, K. Boyle, C. Carey, C. Duffy, and P. Hanson. National Science Foundation, Dynamics of Coupled Natural and Human Systems, "CNH-L: Linking Land-Use Decision Making, Water

Quality, and Lake Associations to Understand Human-Natural Feedbacks in Lake Catchments." Budget $1,799,931 (2016-2018).

13. Boyle, K., **K.M. Cobourn**, T. Holmes, A. McCoy, P.E. Wiseman. USDA Forest Service Cooperative Agreement, "A National Study of the Effects of Tree Canopy, Diversity and Health on Property Values: Phase II." Budget $71,060 (2015-2016).

12. **Cobourn, K.M.**, and V. Thomas. Institute of Critical Technology and Applied Science, Virginia Tech, "Identifying the Effects of Climate Change on Irrigated Agriculture using Remote Sensing and Geospatial Water Rights Data." Budget $60,000 (2015-2016).

11. Merry, F.D., G.S. Amacher, and **K.M. Cobourn**. USDA Forest Service Office of International Programs, "Supporting a Sustainable Forest Sector in the Brazilian Amazon." Budget $587,000 (2015-2018).

10. Haight, R., G. Amacher, **K.M. Cobourn**. USDA Forest Service, "Biological Invasions in a Management Mosaic: The Cost of Coordination Failure and the Value of Information." Budget $24,987 (2014-2015).

9. Boyle, K., **K.M. Cobourn**, T. Holmes, A. McCoy, P.E. Wiseman. USDA Forest Service Cooperative Agreement, "A National Study of the Effects of Tree Canopy, Diversity and Health on Property Values." Budget $71,795 (2014-2015).

8. **Cobourn, K.M.**, and A. Flores. NASA ROSES Land-Cover Land-Use Change Program for Early Career Scientists. "Water Institutions and Agricultural Land-Use Change across the Western US." Budget $239,000 (2013-2017).

7. Walsh, D.B., L.C. Lavine, F.G. Zalom, and **K.M. Cobourn**. USDA NIFA Pest Management Alternatives Program. "Costs and Benefits of Managing Spider Mite Resistance on Western US Perennial Specialty Crops." Budget: $47,000 (2012-2015).

6. **Cobourn, K.M.** NASA Idaho Space Grant Consortium Research Seed Grant, "Agricultural Land-Use Decisions in Response to Uncertain Water Availability and Institutional Constraints." Budget: $79,738 (2012-2014).

5. **Cobourn, K.M.** USGS Section 104(b) Program, "Modeling Dynamic Feedback between Surface and Groundwater Systems: Implications for the Economics of Conjunctive Management." Budget: $30,375 (2010-2012).

4. **Cobourn, K.M.**, A. Flores, and J. Pierce. Idaho EPSCoR and NSF award EPS-0814387. "The Influence of Changes in the Timing of Snowmelt on Dryland Crop Yields in Idaho." Budget: $31,016 (2012-2013).

3. Lowe, S., **K.M. Cobourn**, L. Elbakidze, and D. Ames. Idaho EPSCoR and NSF award EPS-0814387. "The Use of Remote Sensing to Develop a Real-Time Water Market in Idaho." Budget: $76,000 (2012-2013).

2. Flores, A.N., V. Sridhar, **K.M. Cobourn**, and J. Pierce. Idaho EPSCoR and NSF award EPS-0814387. "What Impact Do Land Use/Land Cover Dynamics Have on Land Surface Hydrologic Modeling?" Budget: $82,566 (2011-2013).

1. Mooney, S., **K.M. Cobourn**, and S. Islam. COBE Summer Faculty Funding Program, Traditional Research Grant, "Multidisciplinary Research in Applied Economics: Practitioner Attitudes and Institutional Impediments, Journal Content, and Demand for Job Skills." Budget: $14,000 (2011).

PROFESSIONAL ACTIVITIES

REFEREE EXPERIENCE

Canadian Journal of Agricultural Economics, Ecological Economics, Environmental and Resource Economics, European Review of Agricultural Economics, Hydrology and Earth Systems Science, Journal of Agricultural and Resource Economics, Journal of Contemporary Water Research and Education, Journal of Environmental Economics and Management, Journal of Natural Resources Policy Research, Nature Climate Change, Water Resource Economics, Water Resources Research, Western Agricultural Economics Association

GRANT REVIEW EXPERIENCE

USDA, NSF, Wyoming Agricultural Experiment Station, California Department of Food and Agriculture, Water Resources Research Institute of the UNC System

PRESENTATIONS

University of Tennessee (Invited, 2015)
Western Water Conference (Invited, 2015)
American Economic Association Meetings (2012; Scheduled, 2016)
Agricultural and Applied Economic Association Annual Meeting (2008-2012; Invited, 2014-2015)
NASA Land-Use/Land-Cover Change Science Team Meeting (Invited, 2013-2015)
Virginia Tech, Civil and Environmental Engineering (Invited, 2015)
University of Florida (Invited, 2015)
Resources for the Future (Invited, 2014)
World Congress of Environmental and Resource Economists (2010; 2014)
University of Nebraska, Lincoln, Agricultural Economics (Invited, 2013)
Virginia Tech, Agricultural and Applied Economics (Invited, 2013)
Virginia Tech, Forest Resources and Environmental Conservation (Invited, 2013)
NASA Ames Research Center (Invited, 2012)
Montana State University, Agricultural Economics and Economics (Invited, 2012)
International Water Resource Economics Consortium (2012)
Western Agricultural Economics Association Annual Meeting (2011-2012)
Association of Environmental and Resource Economists Summer Conference (2011-2012)
American Geophysical Union Fall Meetings (Invited, 2011)
Idaho Senate Agricultural Affairs Committee (2011)
Pacific Northwest Climate Science Conference (2010)
Boise State University, Department of Geosciences (Invited, 2009)
University of Idaho, Agricultural Economics and Rural Sociology (Invited, 2009)
USDA-ERS, PREISM Annual Workshop (2007-2009)
Boise State University, Economics (Invited, 2009)
University of California, Davis, Human Behavior and Environmental Policy (Invited, 2008)
Maine Legislative Committee on Agriculture, Conservation and Forestry (2004)

MEMBERSHIPS

Agricultural and Applied Economics Association, Western Agricultural Economics Association, Association of Environmental and Resource Economists

TEACHING AND ADVISING

RECOGNITION

Wallace G. Kay Writing Competition, Advisor to COBE winner Zachary Turk (2013)
Boise State Top Ten Scholars Honored Faculty Member for George Fenton (2012)
COBE Scholars Honored Faculty Member for Eric Schuler (2012)
Wallace G. Kay Writing Competition, Advisor to COBE winner Eric Schuler (2012)

TEACHING

Virginia Tech (2014-present): Forest Resources Policy (FOR 4434); Water Resource Economics and Policy (FOR 4464); Advanced Natural Resource Economics (FOR 5984); Forest Resources and Environmental Conservation Seminar Series (FOR 5004)
Boise State University (2011-2013): Quantitative Methods for Economics (Econ 421/421G, Undergraduate and Graduate); Econometrics (Econ 422/422G, Undergraduate and Graduate); Independent Study (Econ 496, Undergraduate)
Idaho, Nevada, and New Mexico EPSCoR (2012): Interdisciplinary Modeling: Water-Related Issues and Changing Climate (RGSC 618, Graduate)

CURRENT GRADUATE STUDENTS AND POSTDOCS

Xinde (James) Ji, Ph.D. Forest Resources and Environmental Conservation, Virginia Tech
Shyamani Siriwardena, Ph.D. Forest Resources and Environmental Conservation, Virginia Tech
Wei Zhe, Ph.D. Agricultural and Applied Economics, Virginia Tech
Christopher Wade, M.S. Forest Resources and Environmental Conservation, Virginia Tech
Eric Chance, M.S. Forest Resources and Environmental Conservation, Virginia Tech

PAST GRADUATE STUDENTS AND POSTDOCS

Gretchen Beebe, M.S. Applied Mathematics, Boise State University
Erin Murray, M.S. Hydrologic Sciences, Boise State University
Sanchari Ghosh, Postdoc, Department of Economics, Boise State University