

## *Curriculum Vitae*

### **Matthew Alan Andersen**

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#### **Contact Information**

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#### **Education**

- Ph.D., Agricultural and Resource Economics, University of California, Davis (2005)
- M.S., Mineral Economics, Colorado School of Mines (2000)
- B.A., Political Science, The Colorado College (1991)

#### **Academic Appointments**

- Associate Professor, Department of Agricultural and Applied Economics, University of Wyoming (2013–present)
- Assistant Professor, Department of Agricultural and Applied Economics, University of Wyoming (2007–2013)
- Post-Doctoral Research Associate, Department of Agricultural and Resource Economics, University of California, Davis (2006–2007)
- Post-Doctoral Research Associate, Department of Applied Economics, University of Minnesota (2005–2006)
- Research Assistant, Department of Agricultural and Resource Economics, University of California, Davis (2000–2005)
- Research Assistant, Division of Economics and Business, Colorado School of Mines (1998–2000)

## Professional Affiliations

- Visiting Scholar, Department of Economics, Strategy, and Management, University of Leuven, Belgium (sabbatical fall semester 2013)
- Multi-state Research Project Member, Impact Analyses and Decision Strategies for Agricultural Research, NC-1034, National Institute of Food and Agriculture (2007–present)
- Agricultural and Applied Economics Association (AAEA) Member

## Honors and Awards

- *American Journal of Agricultural Economics*, Outstanding Article Honorable Mention (2019)
- Quality of Research Discovery Award, Agricultural and Applied Economics Association (2011)
- Outstanding Published Research Award, Western Agricultural Economics Association (2011)
- Quality of Research Discovery Award, Australian Agricultural and Resource Economics Society (2010)
- Gordon A. King Outstanding Dissertation Award, Department of Agricultural and Resource Economics, University of California, Davis (2005)

## Articles

- Andersen, MA, 2019. Calculating and interpreting percentage changes for economic analysis. *Applied Economics Teaching Resources* 1(1): 25-31
- Andersen, MA, 2019. Knowledge productivity and the returns to agricultural research: a review. *Australian Journal of Agricultural and Resource Economics* 63(2): 205-220
- Andersen MA, 2018. Age-Efficiency and replacement requirements for measures of capital services. *Review of Economics and Finance* 13(3): 55-61
- Andersen MA, Alston JM, Pardey PG, Smith A, 2018. A century of U.S. farm productivity growth: A surge then a slowdown. *American Journal of Agricultural Economics* 100(4): 1072-1090
- Andersen MA, 2015. Public investment in U.S. agricultural R&D and the economic benefits. *Food Policy* 51: 38-43

- Andersen MA, Song W, 2013. The Economic impact of public agricultural research and development in the United States. *Agricultural Economics* 44(3): 287-295
- Andersen MA, Alston JM, Pardey PG, 2012. Capital use intensity and productivity biases. *Journal of Productivity Analysis* 37(1): 59-71
- Alston JM, Andersen MA, James JS, Pardey PG, 2011. The Economic returns to U.S. public agricultural research. *American Journal of Agricultural Economics* 93(5): 1257-1277
- Andersen MA, Alston JM, Pardey PG, 2011. Capital services in U.S. agriculture: concepts, comparisons, and the treatment of interest rates. *American Journal of Agricultural Economics* 93(3): 718-738
- Alston JM, Pardey PG, James JS, Andersen MA, 2009. The Economics of agricultural R&D. *Annual Review of Resource Economics*, Gordon C. Rausser, ed. (1): 537-566
- Andersen MA, Coupal R, White B, 2009. Reclamation costs and regulation of Wyoming's oil and gas industry. *Western Economics Forum* 8(1): 40-48
- James JS, Alston JM, Pardey PG, Andersen MA, 2009. Structural changes in U.S. agricultural production and productivity. *Choices* 24(4): 1-5
- Andersen MA, Coupal R, 2009. Economic issues and policies affecting reclamation in Wyoming's oil and gas industry. *Proceedings of the 26<sup>th</sup> Annual Meeting of the American Society of Mining and Reclamation*, 1-17
- Andersen MA, Blank SC, LaMendola T, Sexton RJ, 2002. California's cattle and beef industry at the crossroads. *California Agriculture* 56(5):152-156
- Andersen MA, Sexton RJ, 2001. Key economic issues in commodity tree-pull programs. *Agricultural and Resource Economics Update* 4(3): 7-9

### **Books and Book Chapters**

- Alston, J.M., Andersen, M.A., James, J.S., Pardey, P.G., 2010. *Persistence Pays: U.S. Agricultural Productivity and the Benefits from Public R&D Spending*. New York: Springer
- Alston, J.M., Andersen, M.A., James, J.S., Pardey, P.G., 2010. "Structural Changes in U.S. Agricultural Production and Productivity," Chapter 8 of *The Shifting Patterns of Agricultural Production and Productivity Worldwide*. Ames: Iowa State University Press

## Selected Presentations

- Andersen, M.A. Econometrics of the impacts of agricultural R&D. Keynote Speaker, Impacts of agricultural research - towards an approach of societal values, an international conference organized by the French National Institute for Agricultural Research. Paris, France (2015)
- Igarashi, Y., R. Coupal, D. Finnoff and M.A. Andersen. Economics of oil and gas development in the presence of reclamation and bonding requirements. Selected Paper presented at the Agricultural and Applied Economics Association, Minneapolis, MN (2014)
- Andersen, M.A. and R. Coupal. Reclamation policies, economic incentives, and the cost of reclaiming orphaned oil and gas wells in Wyoming. Selected Paper at the Pacific Northwest Regional Conference, Seattle, WA (2012)
- Krutkramele, K., M. Ehmke, C.T. Bastian, E. Larson-Meyer, M.A. Andersen, and L. Thunstrom. Risk preferences and young couples' natural sweetener glycemic index information valuation. Selected Paper presented at the Agricultural and Applied Economics Association, Seattle, WA (2012)
- Yao, X. and M.A. Andersen. Agricultural R&D lags from a dual perspective. Selected Paper presented at the Agricultural and Applied Economics Association, Denver, CO (2010)
- Igarashi, Y., M.A. Andersen and R. Coupal. Environmental bonding for land reclamation. Selected Paper presented at the Agricultural and Applied Economics Association, Denver, CO (2010)
- Andersen, M.A., J.M. Alston and P.G. Pardey. Asset utilization and bias in measures of US agricultural productivity. Selected Paper presented at the American Agricultural Economics Association, Long Beach, CA (2006)

## Professional Service

- Topic Leader, *Productivity Analysis and Emerging Technologies*, Agricultural and Applied Economics Association (2012–2013)
- Member of the *Outstanding Published Graduate Student or MS Thesis Award Committee*, Western Agricultural Economics Association (2012)

## University Service

- University of Wyoming, Department of Agricultural and Applied Economics, Undergraduate Curriculum Committee (2007–2010)
- University of Wyoming, Department of Agricultural and Applied Economics, Faculty Senate (2011–2014)
- University of Wyoming, College of Agriculture and Natural Resources, Tenure and Promotion Committee (2013–2015)

## Journal Reviewer

- *Agricultural Economics*
- *American Journal of Agricultural Economics*
- *Applied Economic Perspectives and Policy*
- *Choices*
- *Economic Inquiry*
- *Food Policy*
- *Journal of Agricultural and Resource Economics*
- *Journal of Productivity Analysis*
- *Scientometrics*

## Teaching (33 semesters)

- Econometric Theory AGEC 5230, spring 2008–2019, 12 semesters
- Agricultural Finance AGEC 4500, spring 2008–2015, 8 semesters
- Quantitative Methods for Economists AGEC 5320, fall 2008–2012, 5 semesters
- Technical Communication for Agribusiness Majors AGEC 4970, spring 2015–2019, 5 semesters
- Principles of Microeconomics AGEC 1020, fall 2016–2018, 3 semesters

## Student Advising

### *Graduate Students*

- M.S. thesis committee member for Magdana Kondaridze, “Consumer Food Preference Changes in Russia.” (2019)

- M.S. thesis outside committee member for Shawn Enriques, Department of Economics and Finance (2018)
- M.S. thesis committee for Justin Schaffer, “Measuring the Distribution of Economic Benefits from Adopting Genomic Technology in the U.S. Beef Industry: A Case Study of Myostatin Mutation.” (2016)
- Chair M.S. thesis committee for Phung Tran, “A Dual Economic Analysis of Capital Utilization and Productivity Growth in U.S. Agriculture.” (2013)
- Co-Chair M.S. thesis committee for Yoshiyuki Igarashi, “Optimal Investment in a Research Network with Application to the Agricultural Experiment Stations in the United States.” (2013)
- M.S. thesis outside committee member for Jennifer Faulkner, “Comparison of Carbon Rich Soil Amendments for Reclamation of Southwest Wyoming Natural Gas Well Pads.” Department of Ecosystem Science and Management (2012)
- Chair M.S. thesis committee for Wenxing Song, “The Financial Returns to U.S. Public Agricultural Research: A Time Series Analysis.” (2012)
- M.S. thesis committee member for Tanya Madden, “Development of an improved training approach for implementing WebEquity, a new credit analysis program for Security First Bank in Nebraska and South Dakota.” (2011)
- M.S. thesis committee member for Katrina Krutkramele, “Young Consumers’ Valuation of Natural Sweetener Alternatives.” (2010)
- Chair M.S. thesis committee for Xiaojia Yao, “A Dual Economic Analysis of Multi-factor Productivity and R&D Lags in U.S. Agriculture.” (2010)
- Co-Chair M.S. thesis committee for Yoshiyuki Igarashi, “Optimal Bonding System for Land Reclamation in Oil and Gas Development.” (2010)
- M.S. thesis committee member for Heath Van Eaton, “U.S. Excess Demand for Selected Plastic Goods: 1994-2003.” (2010)
- Co-chair M.S. thesis committee for Cheryl Higgins, “Consumer Preferences and Characteristics Regarding Farmers’ Markets.” (2009)
- Co-chair M.S. technical paper for Bridgette White, “Reclamation Costs for Oil and Gas Development.” (2009)

## Grants

### *Funded*

- Old World Industries, LLC, *Identification of Agricultural Technologies from the Public Sector for Commercialization* (2018) \$55,000
- University of Wyoming, Agricultural Experiment Station, *Genetics and Genomics for Beef Cattle: Where's the Economics?* (2015) \$87,000
- University of California Division of Agriculture and Natural Resources, *A Bibliometric Analysis of the California Division of Agriculture and Natural Resources* (2014) \$20,000
- University of Wyoming, Agricultural Experiment Station, Global Perspectives Grant Program, *Global Perspectives on Agricultural Science* (2013) \$4,000
- University of Wyoming, Agricultural Experiment Station, *The Evolution of Crop Science in the United States: Integrating Scientific Metrics with Economic Models* (2012) \$30,000
- University of Wyoming, Agricultural Experiment Station, *Carbon-rich Soil Amendments for Ecological Restoration of Drastically Disturbed Rangeland Sites* (2010) \$52,729
- University of Wyoming, Academic Affairs, *Faculty Retention Rates at UW: A Statistical Analysis* (2010) \$16,167
- University of California, Davis, *Production Accounts in U.S. Agriculture* (2009) \$30,000
- University of Wyoming, School of Energy Resources, *Understanding Disruption and Recovery of Ecological Structure and Functioning for Restoration of Disturbed Wyoming Ecosystems* (2008) \$53,800

### *Matching (unfunded)*

- University of Wyoming, School of Energy Resources, *Reclamation Costs, Bonding Systems, and the Probability of Reclamation in Wyoming's Oil and Gas Industry* (2008) \$44,552

### *Applied (unfunded)*

- NIFA-AFRI, *Optimal Investment in Public Agricultural Research and Development in the United States* (2014) \$239,000

- National Science Foundation, *Integrating Bibliometrics and Econometrics to Evaluate the Economic Consequences of Research: with Application to the Food and Agricultural Sciences* (2013) \$787,714
- University of Wyoming, School of Energy Resources and the Wyoming Reclamation and Restoration Center, *Using Remote Sensing to Monitor Reclamation Progress and Provide Information to Guide Policy* (2009) \$380,712
- University of Wyoming, Agricultural Experiment Station, *Using Remote Sensing to Monitor Reclamation Progress and Provide Information to Guide Policy* (2009) \$60,000