

January 2020

JONATHAN R. MCFADDEN

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RESEARCH AREAS

Environmental Economics, Applied Econometrics, Agricultural Economics

EDUCATION

PhD Economics, Iowa State University, Ames, Iowa, 2015
BA Economics, University of Oklahoma, Norman, OK, 2008
BA Mathematics, University of Oklahoma, Norman, OK, 2008

ACADEMIC AND PROFESSIONAL POSITIONS

University of Oklahoma, Department of Economics
Assistant Professor, 2019 – present
USDA Economic Research Service, Washington, DC
Research Agricultural Economist, 2015 – 19
Iowa State University, Department of Economics and the Biobased Industry Center
Research Assistant, 2010 – 15
Oklahoma Corporation Commission, Oklahoma City, OK
Economist, Public Utility Division, 2008 – 09
University of Oklahoma, Norman, OK
Research Assistant, Department of Economics, 2006 – 07

PUBLICATIONS – PEER REVIEWED JOURNAL ARTICLES

- McFadden, Jonathan R. and John A. Miranowski. 2020. “Corn Yield Dynamics and Weather Shocks: Climate Change Implications for the U.S. Corn Belt.” *Climate Change Economics*, forthcoming.
- Wechsler, Seth J., Jonathan R. McFadden, and David J. Smith. 2018. “What Do Farmers' Weed Control Decisions Imply About Glyphosate Resistance? Evidence from Surveys of US Corn Fields.” *Pest Management Science* 74(5): 1143-1154.
- McFadden, Jonathan R. and Wallace E. Huffman. 2017. “Consumer Demand for Low-Acrylamide-Forming Potato Products: Evidence from Lab Auctions.” *American Journal of Potato Research* 94(5): 465-480.
- Rosburg, Alicia S., Jonathan R. McFadden, and John A. Miranowski. 2017. “Managing Feedstock Supply Risk for the Development of a US Stover Biofuel Industry.” *BioEnergy Research* 10(3): 671-687.
- McFadden, Jonathan R. and Wallace E. Huffman. 2017. “Consumer Valuation of Information about Food Safety Achieved Using Biotechnology: Evidence from New Potato Products.” *Food Policy* 69(May): 82-96.
- McFadden, Jonathan R. and Wallace E. Huffman. 2017. “Willingness-to-Pay for Natural, Organic, and Conventional Foods: The Effects of Information and Meaningful Labels.” *Food Policy* 68 (April): 214-232.

McFadden, Jonathan R. and John A. Miranowski. 2016. "Climate Change: Challenge and Opportunity to Maintain Sustainable Productivity Growth and Environment in a Corn-Soybean Bioeconomy." *AgBioForum* 19(2): 92-111.

PEER REVIEWED BOOK CHAPTERS AND CONFERENCE PROCEEDINGS

McFadden, Jonathan R., and David E. Schimmelpfennig. 2019. "The Emerging Structure of the U.S. Precision Agriculture Industry." *Proceedings of the 12th European Conference on Precision Agriculture*, J. Stafford, ed. Montpellier France, Wageningen Academic Publishers.

McFadden, Jonathan R. and John A. Miranowski. 2017. "Extreme Weather, Biotechnology, and Corn Productivity," in *Modeling, Dynamics, Optimization and Bioeconomics II*, A.A. Pinto, and D. Zilberman, eds. *Springer Proceedings in Mathematics and Science*, vol. 195: 337-361. Cham, Switzerland: Springer.

PEER REVIEWED U.S. GOVERNMENT REPORTS

McFadden, Jonathan R., David J. Smith, Seth J. Wechsler, and Steven. Wallander. 2019. *Development, Adoption, and Management of Drought-Tolerant Corn in the United States*, EIB 204, U.S. Department of Agriculture, Economic Research Service, January.

Claassen, Roger, Maria S. Bowman, Jonathan R. McFadden, David J. Smith, and Steven Wallander. 2018. *Tillage Intensity and Conservation Cropping in the United States*, EIB-197, U.S. Department of Agriculture, Economic Research Service, September.

McFadden, Jonathan R. and Robert A. Hoppe. 2017. *The Evolving Distribution of Payments from Commodity, Conservation, and Federal Crop Insurance Programs*, EIB-184, U.S. Department of Agriculture, Economic Research Service, November.

OTHER PUBLICATIONS

Wechsler, S., D. Smith, J. McFadden, L. Dodson, and S. Williamson. 2019. "The Use of Genetically Engineered Dicamba-Tolerant Soybean Seeds Has Increased Quickly, Benefiting Adopters but Damaging Crops in Some Fields." *Amber Waves*. U.S. Department of Agriculture, Economic Research Service, October.

Jonathan R. McFadden. 2019. "Drought-Tolerant Corn in the United States: Research, Commercialization, and Related Crop Production Practices." *Amber Waves*. U.S. Department of Agriculture, Economic Research Service, March.

Jonathan R. McFadden. 2017. "Although Small, Markets Have Been Expanding for GE Crops with Traits that Increase Nutrient Content or Improve Taste." *Amber Waves*. U.S. Department of Agriculture, Economic Research Service, August.

Coble, Keith, Terry S. Griffin, Mary Ahearn, Shannon Ferrell, Jonathan R. McFadden, Steven Sonka, and John Fulton. 2016. *Advancing US Agricultural Competitiveness with Big Data and Agricultural Economic Market Information, Analysis, and Research*. The Council on Food, Agricultural, and Resource Economics, October.

WORKING PAPERS

McFadden, Jonathan R. 2020. "Consumer Willingness-to-Pay for Foods with Labels Proposed by the Agricultural Marketing Service to Meet the National Bioengineered Food Disclosure Standard."

McFadden, Jonathan R., David J. Smith, and Steven Wallander. 2019. "Adoption of Drought-Tolerant Corn in the US: A Field-Level Analysis of Adoption Patterns and Emerging Trends."

McFadden, Jonathan R. and Alicia S. Rosburg. 2018. "Influence of Data on Technical Efficiency in Midwest Corn Production: Evidence from Yield and Soil Maps." (Revision requested, *American Journal of Agricultural Economics*)

Lacy, Katherine, Wallace E. Huffman, and Jonathan R. McFadden. 2018. "How Informed are U.S. Consumers about New Food Technology? A Role for New Information."

McFadden, Jonathan R. and John A. Miranowski. 2017. "U.S. Climate Change Adaptation along the Intensive and Extensive Margins: A Field-Level Analysis."

WORKS IN PROGRES

Kuruc, Kevin and Jonathan R. McFadden. "Estimating the Social Cost of Meat."

McFadden, Jonathan R. "International Trade in Agricultural Machinery."

CONFERENCE PRESENTATIONS AND SEMINARS

2019: University of Oklahoma Data Colloquium, OECD Biennial Test Engineers' Conference (invited), University of Oklahoma (invited), Agricultural and Applied Economics Association annual meetings, OECD Paris (invited), European Conference on Precision Agriculture, Association of Environmental and Resource Economists annual meetings, International Consortium on Applied Bioeconomy Research conference*, University of Oklahoma (invited), Oklahoma State University (invited)

2018: Agricultural and Applied Economics Association annual meetings, International Conference on Precision Agriculture, Midwest Economics Association*, USDA Economic Research Service

2017: EU Pacioli Workshop, Agricultural and Applied Economics Association annual meetings, USDA Economic Research Service

2016: American Chemical Society fall meetings*, Agricultural and Applied Economics annual meetings*, American Association of Wine Economists annual conference*, USDA Economic Research Service

2015: Iowa State University*, Earth Systems Modeling Group annual meeting*, International Consortium on Applied Bioeconomy Research conference*, Association of Environmental and Resource Economists annual meeting, USDA Economic Research Service (invited), University of Illinois (invited)

2014: Iowa State University, Agricultural and Applied Economics Association annual meeting, NBER-NSF Seminar on Bayesian Inference in Econometrics and Statistics, Iowa NSF EPSCoR Research (invited), Berkeley Bioeconomy Conference*, Iowa Water Conference

2013: Midwest Econometrics Group annual meeting, Agricultural and Applied Economics Association annual meeting

(* presented by co-author)

OTHER PRESENTATIONS

Government briefings

USDA (various agencies), 2017 – 19

Interagency presentations and invitations

Second International Precision Agriculture Roundtable, 2018

US Department of State, USDA Foreign Agricultural Service, USDA Chief Economist, 2018

USDA Foreign Agricultural Service, Cochran Fellows Program, 2017

Trainings

USDA-NASDA, Agricultural Resource Management Survey enumerator trainings, 2016 – 17

Webinar

The Council on Food, Agricultural and Resource Economics (C-FARE), 2016

TEACHING

Bayesian Econometrics (masters), spring 2020, University of Oklahoma

Intermediate Microeconomic Theory (undergraduate), fall 2019/spring 2020, University of Oklahoma

Principles of Microeconomics (undergraduate), summer 2014, Iowa State University

PROFESSIONAL AFFILIATIONS

American Economic Association

Association of Environmental and Resource Economists

Agricultural and Applied Economics Association

International Society of Precision Agriculture

PROFESSIONAL ACTIVITIES

University of Oklahoma, College of Arts and Sciences, Data Scholarship Program, 2019 – present

C-FARE/NASS steering committee for NASS data and statistical resources, 2019 – present

USDA Biotechnology Coordinating Group, 2018 – 19

USDA Agricultural Resource Management Survey planning committee, 2017 – 19

USDA Agricultural Resource Management Survey steering committee, 2015 – 19

C-FARE Big Data steering committee, 2015 – 16

PROFESSIONAL SERVICE

Staff analyses and reviews for: OECD, Congress, USDA (various agencies)

Supervision of research for 3 summer interns, 2017 – 18

REFEERING

American Journal of Agricultural Economics, Applied Economic Perspectives and Policy, Economics Bulletin, Food Policy, International Journal of Environmental Research and Public Health,

Journal of Participation and Employee Ownership, Precision Agriculture

Reports: USDA Economic Research Service, Union of Concerned Scientists

AWARDS AND HONORS

USDA Economic Research Service

Research awards for publication and impact of findings, 2017 – 19 (numerous)

Superior performance reviews, 2017 – 18

Contributions to the Agricultural Resource Management Survey, 2016 – 19 (numerous)

Agricultural and Applied Economics Association (AAEA)

Chester O. McCorkle, Jr. Award, 2014

Iowa State University

James R. Prescott Award for creativity in economics research, 2015

Caine-Bogle Family Graduate Fellowship, 2013

Iowa State University Teaching Excellence Award, 2010

Robert Thomas Service Award, 2010

F. Wendell Miller Graduate Fellowship, 2009 – 12

University of Oklahoma

Phi Beta Kappa, 2008