

Address

478F Heady Hall
Department of Economics
Iowa State University
518 Farm House Lane
Ames IA 50011

(515)294-9911
chart@iastate.edu

Education

Iowa State University, Ames, Iowa
Doctor of Philosophy, May 1999
Co-majors: Economics and Statistics

Southwest Missouri State University, Springfield, Missouri
Bachelor of Science, May 1991
Major: Economics
Minors: Astronomy, History, and Mathematics

Experience

Professor, August 2020 – present
Associate Professor, August 2012 – August 2020
Assistant Professor, August 2008 – August 2012
Department of Economics/Extension and Outreach, Iowa State University, Ames, Iowa
Serving as crop markets specialist for the department.

Scientist, March 2002 – July 2008
Center for Agricultural and Rural Development, Iowa State University, Ames, Iowa
Led the Biorenewables Policy division in CARD.
Conducted empirical research on biorenewable products, agricultural policy, and crop insurance; maintained the CARD loan deficiency payment web site.

U.S. Policy and Insurance Specialist, May 1996 – July 2008
Food and Agricultural Policy Research Institute, Iowa State University, Ames, Iowa
Maintained the FAPRI crop insurance model and conducted empirical research in agricultural policy and crop insurance.

Associate Scientist, March 2000 - March 2002
Center for Agricultural and Rural Development, Iowa State University, Ames, Iowa
Conducted empirical research in agricultural policy and crop insurance.

Postdoctoral Research Associate, May 1999 - February 2000
Center for Agricultural and Rural Development, Iowa State University, Ames, Iowa
Conducted empirical research in agricultural policy and crop insurance.

Publications

Articles in Academic Journals

- Albulena Basha, Wendong Zhang, and **Chad Hart**. “The Impacts of Interest Rate Changes on US Midwest Farmland Values.” *Agricultural Finance Review* 81(2021):746-766.
- Dermot J. Hayes, Lee L. Schulz, **Chad Hart**, and Keri L. Jacobs. “A Descriptive Analysis of the COVID-19 Impacts on the U.S. Pork, Turkey, and Egg Markets.” *Agribusiness* 37(2021):122-141.
- Wendong Zhang, Wei Zhang, and **Chad Hart**. “Are Agricultural Professionals' Farmland Value and Crop Price Forecasts Consistent?” *Journal of the ASFMRA* 81(2018):1-16.
- Tonya Haigh, Vikram Koundinya, **Chad Hart**, Jenna Klink, Maria Lemos, Amber Saylor Mase, Linda Prokopy, Ajay Singh, Dennis Todey, and Melissa Widhalm. “Provision of Climate Services for Agriculture: Public and Private Pathways to Farm Decision-making.” *Bulletin of the American Meteorological Society* 99(2018):1781-1790.
- Minghao Li, Wendong Zhang, and **Chad Hart**. “What Have We Learned from China's Past Trade Retaliation Strategies?” *Choices* 33(2018): individual article.
- Alejandro Plastina and **Chad Hart**. “Is ARC-CO Acting as a Safety Net Program? Evidence from Iowa.” *Choices* 33(2018): individual article.
- Jinzhi Xiao, **Chad Hart**, and Sergio H. Lence. “USDA Forecasts of Crop Ending Stocks: How Well Have They Performed?” *Applied Economic Perspectives and Policy* 39(2017):220-241.
- Yuba R. Kandel, Daren S. Mueller, **Chad Hart**, Nathan R. C. Bestor, Carl A. Bradley, Keith A. Ames, Loren J. Giesler, and Kiersten A. Wise. “Analyses of Yield and Economic Response from Foliar Fungicide and Insecticide Applications to Soybean in the North Central United States.” *Plant Health Progress* 17(2016):232-238.
- Adam J. Sisson, Yuba R. Kandel, **Chad Hart**, Amy Asmus, Stith N. Wiggs, and Daren S. Mueller. “Effect of Foliar Fungicide and Insecticide on Hail-Damaged Soybean.” *Plant Health Progress* 17(2016):141-148.
- Chad Hart**, Sergio H. Lence, Dermot J. Hayes, and Na Jin. “Price Mean Reversion, Seasonality, and Options Markets.” *American Journal of Agricultural Economics* 98(2016):707-725.
- Adam J. Sisson, Yuba R. Kandel, Alison E. Robertson, **Chad Hart**, Amy Asmus, Stith N. Wiggs, and Daren S. Mueller. “Effect of Foliar Fungicides Use on Hail-Damaged Corn.” *Plant Health Progress* 17(2016):6-12.
- Linda S. Prokopy, **Chad Hart**, Raymond Massey, Melissa Widhalm, Jenna Klink, Jeffrey Andresen, James Angel, Thomas Blewett, Otto C. Doering, Roger Elmore, Benjamin M. Gramig, Patrick Guinan, Beth L. Hall, Atul Jain, Cody L. Knutson, Maria C. Lemos, Lois W. Morton, Dev Niyogi, Rebecca Power, Martha D. Shulski, Carol X. Song, Eugene S. Takle, and Dennis Todey. “Using a Team Survey to Improve Team Communication for Enhanced Delivery of Agro-Climate Decision Support Tools.” *Agricultural Systems* 138(2015):31-37.
- Linda S. Prokopy, J. Stuart Carlton, J. Gordon Arbuckle Jr., Tonya Haigh, Maria C. Lemos, Amber S. Mase, Nicholas Babin, Mike Dunn, Jeff Andresen, Jim Angel, **Chad Hart**, and Rebecca Power. “Extension’s Role in Disseminating Information about Climate Change to Agricultural Stakeholders in the United States.” *Climatic Change* (2015):261-272.

- Sergio H. Lence, Herve G. Ott, and **Chad Hart**. “Long-term Futures Curves and Seasonal Structures of Wheat in the European Union and the United States.” *The Journal of Futures Markets* 33(2013):1118-1142.
- William M. Edwards and **Chad Hart**. “Sharing Financial Risk through Flexible Farm Lease Agreements.” *Journal of the ASFMRA* 76(2013):154-166.
- Linda S. Prokopy, Tonya Haigh, Amber S. Mase, Jim Angel, **Chad Hart**, Cody Knutson, Maria C. Lemos, Yun-Jia Lo, Jean McGuire, Lois W. Morton, Jennifer Perron, Dennis Today, and Melissa Widhalm. “Agricultural Advisors: A Receptive Audience for Weather and Climate Information?” *Weather, Climate, and Society* 5(2013):162-167.
- Ariel Singerman, **Chad Hart**, and Sergio H. Lence. “Revenue Protection for Organic Producers: Too Much or Too Little.” *Journal of Agricultural and Resource Economics* 37(2012):415-434.
- Na Jin, Sergio Lence, **Chad Hart**, and Dermot Hayes. “The Long-Term Structure of Commodity Futures.” *American Journal of Agricultural Economics* 94(2012):718-735.
- Tun-Hsiang Yu, **Chad Hart**, and Wen You. “Evaluating Food-Fuel Trade-Offs Via Market Choice: The Case of Iowa Corn Producers.” *Green: The International Journal of Sustainable Energy Conversion and Storage* 1(2011):123-126.
- Silvia Secchi, Lyubov Kurkalova, Philip W. Gassman, and **Chad Hart**. “Land Use Change in a Biofuels Hotspot: The Case of Iowa, USA.” *Biomass and Bioenergy* 35(2011):2391-2400.
- Nick D. Paulson, **Chad Hart**, and Dermot J. Hayes. “A Spatial Bayesian Approach to Weather Derivatives.” *Agricultural Finance Review* 70(2010):79-96.
- Hongli Feng and **Chad Hart**. “Willingness to Pay for Surplus Sugar in the United States.” *Contemporary Economic Policy* 28(2010):429-437.
- Dermot J. Hayes, Bruce A. Babcock, Jacinto F. Fabiosa, Simla Tokgoz, Amani Elobeid, Tun-Hsiang Yu, Fengxia Dong, **Chad Hart**, Edward Chavez, Suwen Pan, Miguel Carriquiry, and Jerome Dumortier. “Biofuels: Potential Production Capacity, Effects on Grain and Livestock Sectors, and Implications for Food Prices and Consumers.” *Journal of Agricultural and Applied Economics* 41(2009):465-491.
- Simla Tokgoz, Amani Elobeid, Jacinto F. Fabiosa, Dermot J. Hayes, Bruce A. Babcock, Tun-Hsiang Yu, Fengxia Dong, and **Chad Hart**. “Bottlenecks, Drought, and Oil Price Spikes: Impact on U.S. Ethanol and Agricultural Sectors.” *Review of Agricultural Economics* 30(2008):604-622.
- Nick D. Paulson, Bruce A. Babcock, **Chad Hart**, and Dermot J. Hayes. “An Insurance Approach to Risk Management in the Ethanol Industry.” *Agricultural and Resource Economics Review* 37(2008):51-62.
- Miguel Carriquiry, Bruce A. Babcock, and **Chad Hart**. “Using a Farmer's Beta for Improved Estimation of Expected Yields.” *Journal of Agricultural and Resource Economics* 33(2008):52-68.
- Amani Elobeid and **Chad Hart**. “Ethanol Expansion in the Food versus Fuel Debate: How Will Developing Countries Fare?” *Journal of Agricultural and Food Industrial Organization* 5(2007): Article 6.
- Amani Elobeid, Simla Tokgoz, Dermot J. Hayes, Bruce A. Babcock, and **Chad Hart**. “The Long-Run Impact of Corn-Based Ethanol on the Grain, Oilseed, and Livestock Sectors: A Preliminary Assessment.” *AgBioForum* 10(2007):11-18.

Patrick Westhoff, Scott Brown, and **Chad Hart**. “When Point Estimates Miss the Point: Stochastic Modeling of WTO Restrictions.” *Journal of International Agricultural Trade and Development* 2(2006).

Chad Hart, Dermot J. Hayes, and Bruce A. Babcock. “Insuring Eggs in Baskets: Should the Government Insure Individual Risks?” *Canadian Journal of Agricultural Economics* 54(2006):121-137.

Bruce A. Babcock, **Chad Hart**, and Dermot J. Hayes. “Actuarial Fairness of Crop Insurance Rates with Constant Rate Relativities.” *American Journal of Agricultural Economics* 86(2004):563-575.

Chad Hart and Sergio H. Lence. “Financial Constraints and Farm Investment: A Bayesian Examination.” *Journal of Business and Economic Statistics* 22(2004):51-63.

Chad Hart and Bruce A. Babcock. “U.S. Farm Policy and the WTO: How Do They Match Up?” *The Estey Centre Journal of International Law and Trade Policy* 3(2002):119-139.

Chad Hart, Bruce A. Babcock, and Dermot J. Hayes. “Livestock Revenue Insurance.” *The Journal of Futures Markets* 21(2001):553-580.

Sergio H. Lence and **Chad Hart**. “Index Models and Land Allocation Reconsidered.” *Canadian Journal of Agricultural Economics* 45(1997):267-284.

Invited Papers in Journals

Mahdi Al-Kaisi, Roger Elmore, Jose Guzman, Mark Hanna, **Chad Hart**, Matthew Helmers, Erin Hodgson, Andrew Lenssen, Antonio Mallarino, Alison Robertson, and John Sawyer. “Drought Impact on Crop Production and the Soil Environment: 2012 Experiences from Iowa.” *Journal of Soil and Water Conservation* 68(2013):19A-24A.

William Edwards and **Chad Hart**. “Introduction to the US Livestock Revenue Insurance System.” *Farm Policy Journal* 9(2012):47-51.

Amani Elobeid, Simla Tokgoz, and **Chad Hart**. “The Ethanol Outlook for Brazil and the United States and Implications for Livestock.” *International Sugar Journal* 109(2007):174-177.

Chad Hart. “Ethanol: Policies, Production, and Profitability in USA.” *International Sugar Journal* 106(2004):597-599.

Extension/Outreach Articles

“Market Shocks and Egg Prices.” Ag Decision Maker. University Extension and Department of Economics, Iowa State University, Ames, Iowa. August 2023. p. 7-10.

(with Jingyi Tong and Wendong Zhang). “The Continuing Evolution of Iowa Farmland Ownership and Tenure: Results from the 2022 Survey.” Agricultural Policy Review. CARD, Iowa State University, Ames, Iowa. June 2023.

Roughly 320 extension articles during my time at Iowa State

Extension Information Files

“Crop Planning Prices.” Ag Decision Maker File A1-10.

“To Grow or not to Grow: A Tool for Comparing Returns to Switchgrass for Bioenergy with Annual Crops and CRP.” Ag Decision Maker File A1-27.

“Estimated Cost of Establishment and Production of Miscanthus in Iowa.” Ag Decision Maker File A1-28.

“Estimated Cost of Establishment and Production of ‘Liberty’ Switchgrass in Iowa.” Ag Decision Maker File A1-29.

“Projected ACRE Payment Rates for Iowa Crops.” Ag Decision Maker File A1-33.
“Trade Assistance Package in 2018.” Ag Decision Maker File A1-37.
“Pricing Forage in the Field.” Ag Decision Maker File A1-65.
“Season Average Price Calculator.” Ag Decision Maker File A2-15.
“Corn Price Basis.” Ag Decision Maker File A2-41.
“Soybean Basis.” Ag Decision Maker File A2-42.
“July Corn Basis.” Ag Decision Maker File A2-43.
“July Soybean Basis.” Ag Decision Maker File A2-44.
“Estimating Corn Use by Iowa Livestock and Poultry.” Ag Decision Maker File B2-55.

Extension Decision Tools

“To Grow or not to Grow: A Tool for Comparing Returns to Switchgrass for Bioenergy with Annual Crops and CRP.” Ag Decision Maker File A1-27.
“Estimated Cost of Establishment and Production of Miscanthus in Iowa.” Ag Decision Maker File A1-28.
“Estimated Cost of Establishment and Production of ‘Liberty’ Switchgrass in Iowa.” Ag Decision Maker File A1-29.
“Projected ACRE Payment Rates for Iowa Crops.” Ag Decision Maker File A1-33.
“Agricultural Act of 2014 – 2014-2018 Base Acres Reallocation and Yield Update.” Ag Decision Maker File A1-35.
“Farm Bill Calculator.” Ag Decision Maker File A1-36.
“Season Average Price Calculator.” Ag Decision Maker File A2-15.
“Estimating Corn Use by Iowa Livestock and Poultry.” Ag Decision Maker File B2-55.

Book Chapters

Chad Hart. “The Economic Evolution of the Soybean Industry.” Chapter 1 in *The Soybean Genome*. Edited by H. T. Nguyen and M. K. Bhattacharyya. Springer International Publishing. 2017.

Chad Hart. “The Current State of Federally-Supported Livestock Insurance.” Chapter 14 in *The Economics of Livestock Disease Insurance: Concepts, Issues and International Case Studies*. Edited by S. R. Koontz, D. L. Hoag, D. D. Thilmany, J. W. Green, and J. L. Grannis. Wallingford: CABI Publishing. 2006.

Chad Hart and John C. Beghin. “Rethinking Agricultural Domestic Support under the World Trade Organization.” Chapter 8 in *Agricultural Trade Reform and the Doha Development Agenda*. Edited by K. Anderson and W. Martin. Basingstoke, U.K.: Palgrave Macmillan and The World Bank. 2006.

Bruce A. Babcock, **Chad Hart**, and Andrea Stoppa. “The Management of Agricultural Risk in the USA.” *The Management of Risk in Agriculture: Tools and Politics*. Volume 6 of the Notebooks of the International Forum of Agriculture and Feed. Rome, Italy: The International Forum of Agriculture and Feed. October 2004. p. 99-117. In Italian.

William H. Meyers, Michael D. Helmar, and **Chad Hart.** “Modelling the Outcomes of CAP Reform.” Chapter 5 in *The Reform of the Common Agricultural Policy*. Edited by K. A. Ingersent, A. J. Rayner, and R. C. Hine. London: Macmillan Press. 1998.

Proceedings Papers

- Chad Hart.** “Feed for Fuel: Coping with the new reality.” *Proceedings of the 2009 Annual Meeting of the Western Canadian Association of Swine Veterinarians*. Saskatoon, Canada, 2009, p. 3-16.
- Chad Hart** and Sergio H. Lence. “Bayesian Examination of Financial Constraints and Farm Investment.” *Proceedings of the Annual Meeting of the NC-221 Committee on Financing Agriculture and Rural America: Issues of Policy, Structure, and Technical Change, Denver, Colorado, October 7-8, 2002*. South Dakota State University, Department of Economics, Economics Pamphlet 2003-1, 2003, p. 203-215.
- Chad Hart**, Samarendu Mohanty, and Darnell B. Smith. “Estimating Expected Per Acre Indemnities of Yield and Revenue Insurance Products.” *Proceedings of the NCR-134 Conference: Applied Commodity Price Analysis, Forecasting, and Market Risk Management*. B. Wade Brorsen, editor, Oklahoma State University, Stillwater, Oklahoma, 1997, p. 84-93.
- Chad Hart**, Darnell B. Smith, and John R. Kruse. “The Dynamics of Flex.” *Proceedings of the NCR-134 Conference: Applied Commodity Price Analysis, Forecasting, and Market Risk Management*. B. Wade Brorsen, editor, Oklahoma State University, Stillwater, Oklahoma, 1995, p. 78-96.

Other Articles and Papers

- “How Does the U.S. Fit into Global Corn and Soybean Production?” *Farmland Insights* Volume 2, No. 2. July 2019. p. 1-3.
- “New Records in the Global Crop Markets.” *Farmland in Perspective* Volume 36, No. 1. Arcola, Illinois. March 2015. p. 1-3.

Over 100 research reports and industry articles since joining Iowa State

Congressional Testimony

- “Actuarial Methodology of Crop Insurance.” Presented to the U.S. House of Representatives, Agriculture Committee, Subcommittee on General Farm Commodities and Risk Management, Washington, DC, April 2009.
- “Crop Insurance within the World Trade Organization.” Presented to the U.S. House of Representatives, Agriculture Committee, Subcommittee on General Farm Commodities and Risk Management, Washington, DC, April 2006.

Outreach Activities

Recent Presentations

- “Soybean Outlook.” Presented at the Midwest Outlook Conference, Kansas City, Missouri, August 2023.
- “The Ag Economy.” Presented at the National Conference of State Legislatures Ag Task Force meeting, Chicago, Illinois, June 2023.

Over 1,200 presentations since 2007

Graduate Student Committees

Ryan Goodrich, Iowa State, Economics, member of PhD committee, current

Philip Herr, Iowa State, Economics, major professor of PhD committee, current
Stephen Herr, Iowa State, Economics, member of PhD committee, current
Jiayou Mei, Iowa State, Economics, member of PhD committee, current
Sulagna Sarkar, Iowa State, Economics, member of PhD committee, current
Mahendra Singh, Iowa State, Economics, member of PhD committee, current
Jingyi Tong, Iowa State, Economics, member of PhD committee, current
Xiaorui Qu, Iowa State, Economics, member of PhD committee, 2023
Dinesh Poddaturi, Iowa State, Economics, co-major professor of PhD committee, 2023
Oranuch Wongpiyabovorn, Iowa State, Economics, major professor of PhD committee, 2023
Christopher Pudenz, Iowa State, Economics, member of PhD committee, 2023
Jiayi Luo, Iowa State, Statistics, member of PhD committee, 2022
Sriramjee Singh, Iowa State, Economics, member of PhD committee, 2022
Chen-Ti Chen, Iowa State, Economics, member of PhD committee, 2021
Ming Jin, Iowa State, Economics, major professor of PhD committee, 2020
Tianyang Zhang, Iowa State, Economics, member of PhD committee, 2020
Zehui Jiang, Iowa State, Economics, member of PhD committee, 2018
Brandon Marshall, Iowa State, Physics and Astronomy, member of PhD committee, 2018
Shufen Chen, Iowa State, Economics, member of PhD committee, 2017
Xiaoguang Feng, Iowa State, Economics, member of PhD committee, 2017
Zabid Iqbal, Iowa State, Economics, member of PhD committee, 2017
Wenwen Xi, Iowa State, Economics, member of PhD committee, 2017
Daniel Alexander, Iowa State, Economics, major professor of MS committee, 2016
Chao Li, Iowa State, Economics, member of PhD committee, 2016
Kenneth Liao, Iowa State, Economics, member of PhD committee, 2016
Xiaohong Zhu, Iowa State, Economics, member of PhD committee, 2016
Jinzhi Xiao, Iowa State, Economics, co-major professor of PhD committee, 2015
Beth Miller, University of Illinois, Agricultural Economics, member of PhD committee, 2015
Michael Hudak, Iowa State, Economics, member of PhD committee, 2015
Camille Nelson, Iowa State, Agricultural Engineering, member of MS committee, 2015
Lisha Li, Iowa State, Economics, co-major professor of PhD committee, 2015
Wei Zhou, Iowa State, Economics, member of PhD committee, 2015
Yixing Peng, Iowa State, Economics, member of PhD committee, 2015
Miguel Carriquiry, Iowa State, Statistics, member of MS committee, 2013
Kodjo Drogenou, Iowa State, Economics, major professor of MS committee, 2013
Nate Kauffman, Iowa State, Economics, member of PhD committee, 2012
Na Jin, Iowa State, Economics, member of PhD committee, 2011
Ariel Singerman, Iowa State, Economics, member of PhD committee, 2011
Tian Yu, Iowa State, Economics, member of PhD committee, 2011
Qiye Sun, Iowa State, Economics, co-major professor of MS committee, 2010
Kuejai (Nan) Jungjaturapit, Iowa State, Economics, member of MS committee, 2009
Mindy (Baker) Mallory, Iowa State, Economics, member of PhD committee, 2009
Shoshana Hebshi, Iowa State, Journalism, member of MS committee, 2009
Brittany Teahan, Iowa State, Economics, member of MS committee, 2009
Hazen Kazaks, Brown University, Environmental Studies, member of MA committee, 2008
Nick Paulson, Iowa State, Economics, non-voting member of PhD committee, 2007
Nick Paulson, Iowa State, Economics, non-voting member of MS committee, 2004

Courses Taught

Spring 2023: Econ 337, Ag Marketing, 48 students, co-taught with Dr. Lee Schulz
Spring 2022: Econ 337, Ag Marketing, 46 students, co-taught with Dr. Lee Schulz
Fall 2021: Econ 490H, Independent Study, 1 student
Spring 2021: Econ 337, Ag Marketing, 74 students, co-taught with Dr. Lee Schulz
Fall 2020: Econ 460/560, Ag Policy, 49 students, co-taught with several others
Spring 2020: Econ 337, Ag Marketing, 48 students, co-taught with Dr. Lee Schulz
Spring 2019: Econ 337, Ag Marketing, 46 students, co-taught with Dr. Lee Schulz
Spring 2018: Econ 490, Independent Study, 1 student
Spring 2017: Econ 337, Ag Marketing, 47 students
Spring 2016: Econ 337, Ag Marketing, 46 students, co-taught with Dr. Lee Schulz
Spring 2015: Econ 337, Ag Marketing, 47 students, co-taught with Dr. Lee Schulz
Spring 2014: Econ 337, Ag Marketing, 48 students, co-taught with Dr. Lee Schulz
Fall 2013: Econ 490H, Independent Study, 1 student
Spring 2013: Econ 337, Ag Marketing, 43 students, co-taught with Dr. Lee Schulz
Spring 2012: Econ 337, Ag Marketing, 39 students
Spring 2011: Econ 339X, Ag Marketing, 36 students, co-taught with Dr. John Lawrence
Spring 2010: Econ 339X, Ag Marketing, 34 students, co-taught with Dr. John Lawrence
Summer 2009: Econ 490, Independent Study, 1 student
Spring 2009: Econ 338C, Applied Grain Marketing, 47 students

Institutional Service

Student Organizations:

Faculty Adviser, Ag Marketing and Management Org.: 2012/13 – present

Departmental Committees:

Budget Advisory: 2012/13 – 2015/16

CALS Faculty Recruiting: 2009/10, 2012/13 – 2014/15, and 2022/23

Economics Council: 2021/22 – 2022/23

Extension Coordinator: 2013/14 – present

Faculty Awards: 2011/12, 2013/14 – 2022/23

Graduate Student Recruiting and Admission: 2008/09, 2011/12, and 2012/13

Named Positions: 2020/21 – present

Promotion and Tenure: 2013/14 – 2017/18, 2023/24

Staff Planning: 2015/16, 2020/21, and 2022/23

College Committees:

CALS Associate Dean Search: 2022/23

University Committees:

2010-15 Strategic Plan Subcommittee, Treasures Task Force

2020/21 Workgroup to Advance Faculty Scholarship in Extension and Outreach

Professional Service

Review panelist for USDA-NIFA-AFRI Sustainable Agricultural Systems grant cycle, 2021

National Academy of Sciences Panel on Methods for Integrating Multiple Data Sources to Improve Crop Estimates, 2015/16
Midwest/Great Plains/Western Outlook Conference Organizer and Moderator, Des Moines, Iowa, Aug. 15-16, 2016
Extension Section Crops Outlook Organizer and Moderator, 2013 AAEA Meetings, Washington, DC, Aug. 4-6, 2013
Midwest/Great Plains/Western Outlook Conference Organizer and Moderator, Kansas City, Missouri, Aug. 20-21, 2012
Extension Section Crops Outlook Organizer and Moderator, 2012 AAEA Meetings, Seattle, Washington, Aug. 12-14, 2012
Extension Section Crops Outlook Organizer and Moderator, 2009 AAEA Meetings, Milwaukee, Wisconsin, July 26-28, 2009
Track Co-chair, Economics and Policy Track, 2008 Biobased Industry Outlook Conference, Ames, Iowa, Sept. 7-10, 2008

Articles reviewed for *American Journal of Agricultural Economics*, *Agricultural Finance Review*, *Agricultural and Resource Economics Review*, *Applied Economic Perspectives and Policy*, *Biomass and Bioenergy*, *Biotechnology for Biofuels*, *Canadian Journal of Agricultural Economics*, *Choices*, *Environmental Science and Technology*, *European Review of Agricultural Economics*, *Food Policy*, *Journal of Agricultural and Applied Economics*, *Journal of Dairy Science*, *Journal of International Agricultural Trade and Development*, *Operations Research*, and *Western Economics Forum*.

Grants and Contracts

Principal Investigator. Landowners Matter Too: Accelerating Adoption of In-field and Edge-of-field Nutrient Reduction Practices through Better Engaged Landowners. \$61,949. ISU-INRC, 2022.

Co-Principal Investigator. Agricultural Supply Chain Disruptions, Costs, and Mitigation Strategies to Enhance Resiliency of the U.S. Food Supply. \$457,011. USDA-NIFA, 2020.

Co-Principal Investigator. Stress on the Farm: Strategies to Help Each Other. \$30,000. Great Plains Center for Agricultural Health, 2019.

Co-Principal Investigator (replacing Dr. Sebastian Pouliot). A Regional Dynamic Model of U.S. Beef Cattle and the Economic Impacts of Movement Restrictions in an Event of Foot and Mouth Disease. \$361,234. USDA-NIFA, 2018.

Principal Investigator. Analysis of Grain Basis Behavior during Transportation Disruptions. \$41,363. USDA-AMS, 2014.

Co-Principal Investigator. Effects of Fungicide after Hail Injury on Corn and Soybeans. \$43,652. USDA-NIFA, 2013.

Co-Principal Investigator (ISU Co-Principal Investigator), Evaluating the Impact of Extreme Drought on Farm Advisors Perception of Climate Risks in the U.S. Corn Belt, \$142,092 (ISU \$20,103). NOAA, 2013.

Co-Principal Investigator. Transgenic Approaches in Managing Sudden Death Syndrome in Soybean. \$5,000,000. USDA-NIFA, 2013.

Principal Investigator. Balancing Environmental and Feed Availability Concerns. \$55,781. National Pork Producers Council and affiliated state councils. 2011.

Co-Principal Investigator (ISU Principal Investigator). Useful to Usable (U2U): Transforming Climate Variability and Change Information for Cereal Crop Producers. \$5,000,000 (ISU \$597,270). USDA-NIFA, 2011.

Co-Principal Investigator. Economic Assessment of the Ethanol Industry on Iowa and the Nation. \$21,042. Community Vitality Center, Iowa State University, 2011

Co-Principal Investigator. Environmental Credit Trading and Greenhouse Gas Emission Reporting. \$99,733. USDA-NRCS, 2010.

Co-Principal Investigator. Environmental Credit Trading and Greenhouse Gas Emission Reporting. \$193,239. USDA-NRCS, 2009.

Co-Principal Investigator. Iowa Grain and Biofuels Survey and Analysis. \$19,000. Iowa Department of Agriculture and Land Stewardship, 2007.

Co-Principal Investigator. Food and Agricultural Policy Research Institute. \$506,974. Hatch Funds-AES, 2007.

Co-Principal Investigator. Energy from Agriculture. \$275,000. USDA, 2006.

Co-Principal Investigator. FeedRisk OnLine: A Risk Management Tool for Livestock Producers. \$190,687. USDA-RMA, 2003.

Honors

CALS Dean's Citation for Extraordinary Contributions (with Dermot Hayes and Wendong Zhang), Iowa State University, College of Agriculture and Life Sciences, 2020

Bruce Gardner Memorial Prize for Applied Policy Analysis Award (with Ed Balistreri, Dermot Hayes, Minghao Li, Lee Schulz, Wendong Zhang, and John Crespi), Agricultural & Applied Economics Association, 2019

Exemplary Faculty Mentor Award, Iowa State University, 2016

Partnership Award for Mission Integration of Research, Education, and Extension (as part of the Useful to Usable grant team), USDA-National Institute of Food and Agriculture, 2015

CALS Special Research Award, Iowa State University, College of Agriculture and Life Sciences, 2015

Distinguished Extension/Outreach Program: Individual: Less than 10 Years Experience, Agricultural & Applied Economics Association, 2014

Premier Crop Forecaster Award, Agricultural & Applied Economics Association Extension Section, 2014

Editor's Choice Award (with Mahdi Al-Kaisi, Roger Elmore, Jose Guzman, Mark Hanna, Matthew Helmers, Erin Hodgson, Andrew Lenssen, Antonio Mallarino, Alison Robertson, and John Sawyer), Soil and Water Conservation Society, 2013

Gold Quill Award (in partnership with William Edwards), American Society of Farm Managers and Rural Appraisers, 2013

Team Achievement Award (as part of the Bioeconomy Conversations II: Food, Feed, and Fuel team), Iowa State University Extension and Outreach, 2009

Regents Award for Staff Excellence, Iowa Board of Regents, 2007

P&S Award for Achievement, Iowa State University, College of Agriculture, 2007

USDA Secretary's Group Honor Award for Excellence (as part of FAPRI), USDA, 2002

T. W. Schultz Fellowship Award, Iowa State University, Fall 1991