November 21, 2026

RUIQING MIAO

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EDUCATION

2012 **Ph.D. in Economics**, Iowa State University, Ames, Iowa, USA

PROFESSIONAL EXPERIENCE

08/2015 - present	Assistant, Associate, and Full Professor, Department of Agricultural Economics and Rural Sociology, Auburn University
01/2022 - 06/2022	Visiting Scholar, Department of Agricultural and Resource Economics, University of California, Berkeley
09/2012 - 08/2015	Postdoctoral Research Associate, Department of Agricultural and Consumer Economics and Energy Biosciences Institute, University of Illinois at Urbana-Champaign.

SELECTED HONORS AND AWARDS

2026	Presidential Recognition Award, Agricultural & Applied Economics Association (AAEA)
2026	Outstanding Reviewer Award 2025, *Food Policy*
2023 - 2025	Co-Editor, *Choices* Magazine (currently AEEE)
2023 - 2026	Associate Editor, *Natural Resource Modeling*
2024	Honorable mention for 2024 *Applied Economics Teaching Resources* Outstanding Article Award
2021 - 2024	Associate Editor, *Agricultural Economics*
2020 - 2023	Associate Editor, *American Journal of Agricultural Economics*
2022	Dean's Research Award, College of Agriculture, Auburn University
2021	Outstanding Journal Article 2020 of the *European Review of Agricultural Economics*, the European Agricultural and Applied Economics Publications (EAAEP) Foundation
2020	Outstanding Publication Award (High Scientific Impact), College of Agriculture, Auburn University
2019	Emerging Scholar Award, Southern Agricultural Economics Association (SAEA)
2017	Dean's Grantsmanship Award, College of Agriculture, Auburn University

BOOK

1. Zilberman, David, Ruiqing Miao, and Jian Rong. 2025. ***Agricultural Economics and Policy***. World Scientific Publishing Company. Singapore. doi: https://doi.org/10.1142/14016

SELECTED JOURNAL ARTICLES (27 out of 54)

(* indicates graduate students; ** post-docs; *** visiting scholars)

27. Ruiqing Miao, Anand, Mohit*, Bijesh Mishra**, Madhu Khanna, and Fahd Majeed. *forthcoming*. "Exploring Feedstock Pathways to Three Billion Gallons of Sustainable Aviation Fuel: The Role of Contracts and Bioenergy Crop Insurance." ***Applied Economic Perspectives & Policy***. doi: https://doi.org/10.1002/aepp.70129

26. Zhang, Jingfang, Emir Malikov, Ruiqing Miao, and Prasenjit Ghosh. 2026. "Geography of Climate Change Adaptation in U.S. Agriculture." ***Journal of Regional Science*** 66(1): 46-88. doi: https://doi.org/10.1111/jors.70014

25. Miao, Ruiqing, Yijia Li, Madhu Khanna, Christopher Clark, Dallas Burkholder, and Luoye Chen. 2026. "Quantifying the Land-Use Change Due to Soybean-Based Biodiesel in the United States." ***Applied Economic Perspectives and Policy*** 48(1): 20-27. doi: https://doi.org/10.1002/aepp.70005

24. Wilson, Norbert and Ruiqing Miao. 2025. "Food Waste, Date Labels, and Lost Aversion: An Experimental Exploration." ***Applied Economic Perspectives and Policy*** 47(3): 1029-1057. doi: https://doi.org/10.1002/aepp.13507

23. Zhang, Jingfang, Emir Malikov, and Ruiqing Miao. 2024. "Distributional Effects of the Increasing Heat Incidence on Labor Productivity." ***Journal of Environmental Economics and Management*** 125: 102998. doi: https://doi.org/10.1016/j.jeem.2024.102998

22. Miao, Ruiqing, Recep Ulucak***, and David Zilberman. 2024. "Public Agricultural Research, Political Economy, and Climate Change: A Literature Review." ***Applied Economic Perspectives and Policy*** 46(3): 954-982. doi: https://doi.org/10.1002/aepp.13455

21. Cuffey, Joel, Wenying Li, Yang Yu, and Ruiqing Miao. 2023. Retail food environment and household food waste: An empirical study. ***Food Policy*** 117(102457). doi: https://doi.org/10.1016/j.foodpol.2023.102457

20. Miao, Ruiqing, Hongli Feng, David A. Hennessy, Gaurav Arora, and Charles R. Loesch. 2023. "Grassland Easement Acquisition: Conversion Hazard Rate, Additionality, Spatial Spillover, and Heuristics." ***Applied Economic Perspectives and Policy*** 45(2): 928-946. doi: https://doi.org/10.1002/aepp.13318

19. Miao, Ruiqing, Jerrod Penn, and Loka Ashwood. 2023. "How to Thrive in Agricultural Economics PhD Programs: SAEA Emerging Scholar Award Winners' Experience and Advice." ***Applied Economics Teaching Resources*** 5: 1-20. doi: https://doi.org/10.22004/ag.econ.333522 (**Award:** Honorable mention for the 2024 AETR Outstanding Article Award)

18. Yu, Shi, Yajie Zhang, Bingyan Wu, Hao Shi, Linchao Li, Ning Jin, Bin Wang, DeLi Liu, Ruiqing Miao, Xiaoliang Lu, Qingling Geng, Chaoqun Lu, Liang He, Nufang Fang, Chao Yue, Jianqiang He, Hao Feng, Shufen Pan, Hanqin Tian, Qiang Yu. 2022. "Building social resilience in North Korea can mitigate the impacts of climate change on food security." ***Nature Food*** (3):499-511. doi: https://doi.org/10.1038/s43016-022-00551-6

17. Cornish, Brian*, Ruiqing Miao, and Madhu Khanna. 2022. "Impact of changes in Title II of the 2018 Farm Bill on the Acreage and Environmental Benefits of Conservation Reserve Program." ***Applied Economic Perspectives and Policy*** 44(2):1100-1122. doi: http://doi.org/10.1002/aepp.13185

16. Yu, Chengzheng*, Ruiqing Miao, and Madhu Khanna. 2021. "Maladaptation of U.S. Corn and Soybeans to a Changing Climate." ***Scientific Reports*** 11:12351. doi: https://doi.org/10.1038/s41598-021-91192-5

15. Malikov, Emir, Ruiqing Miao, and Jingfang Zhang*. 2020. "Distributional and Temporal Heterogeneity in the Climate Change Effects on U.S. Agriculture." ***Journal of Environmental Economics and Management***. 104:1-10. doi: https://doi.org/10.1016/j.jeem.2020.102386

14. Li, Yijia*, Ruiqing Miao, and Madhu Khanna. 2020. "Neonicotinoids and Decline in Bird Biodiversity in the United States." ***Nature Sustainability*** 3:1027-1035. doi: https://doi.org/10.1038/s41893-020-0582-x

13. Miao, Ruiqing. 2020. "Climate, Insurance, and Innovation: The Case of Drought and Innovations in Drought-Tolerant Traits in U.S. Agriculture." ***European Review of Agricultural Economics*** 47(5):1826-1860. doi: https://doi.org/10.1093/erae/jbaa010 (**Award:** Outstanding Journal Article 2020)

12. Miao, Ruiqing and Madhu Khanna. 2020. "Harnessing Advances in Agricultural Technologies to Optimize Resource Utilization in the Food-Energy-Water Nexus." ***Annual Review of Resource Economics*** 12:65-85. doi: https://doi.org/10.1146/annurev-resource-110319-115428

11. Li, Yijia*, Ruiqing Miao, and Madhu Khanna. 2019. "Effects of Ethanol Plant Proximity and Crop Prices on Land-Use Change in the United States." ***American Journal of Agricultural Economics*** 101(2):467-491. doi: https://doi.org/10.1093/ajae/aay080

10. Miao, Ruiqing, Prasenjit N. Ghosh*, Madhu Khanna, Weiwei Wang, and Jian Rong. 2019. "Effect of Wind Turbines on Bird Abundance: a National Scale Analysis based on Fixed Effects Models." ***Energy Policy*** 132:357-366. doi: https://doi.org/10.1016/j.enpol.2019.04.040

9. Anand, Mohit*, Ruiqing Miao, and Madhu Khanna. 2019. "Adopting Bioenergy Crops: Does Farmers' Attitude toward Loss Matter?" ***Agricultural Economics*** 50(4):435-450. doi: https://doi.org/10.1111/agec.12501

8. Miao, Ruiqing and Madhu Khanna. 2017. "Effectiveness of the Biomass Crop Assistance Program: Roles of Behavioral Factors, Credit Constraint, and Program Design." ***Applied Economic Perspectives and Policy*** 39(4): 584-608. doi: https://doi.org/10.1093/aepp/ppx031

7. Miao, Ruiqing and Madhu Khanna. 2017. "Costs of Meeting a Cellulosic Biofuel Mandate with Perennial Energy Crops: Implications for Policy." ***Energy Economics*** 64: 321-334. doi: https://doi.org/10.1016/j.eneco.2017.03.018

6. Miao, Ruiqing, Madhu Khanna, and Haixiao Huang. 2016. "Responsiveness of Crop Yield and Acreage to Price and Climate." ***American Journal of Agricultural Economics*** 98(1): 191-211. doi: https://doi.org/10.1093/ajae/aav025

5. Miao, Ruiqing, Hongli Feng, David A. Hennessy, and Xiaodong Du. 2016. "Assessing Cost-effectiveness of the Conservation Reserve Program and Its Interaction with Crop Insurance Subsidies". ***Land Economics*** 92(4): 593-617. doi: https://doi.org/10.3368/le.92.4.593

4. Miao, Ruiqing, David A. Hennessy, and Hongli Feng. 2014. "Sodbusting, Crop Insurance and Sunk Conversion Costs." ***Land Economics***. 90(4): 601-622. doi: https://doi.org/10.3368/le.90.4.601

3. Miao, Ruiqing. 2013. "Impact of Ethanol Plants on Local Land Use Change." ***Agricultural and Resource Economics Review***. 42(2): 275-293. doi: https://doi.org/10.22004/ag.econ.155314

2. Feng, Hongli, David A. Hennessy, and Ruiqing Miao. 2013. "The Effects of Government Payments on Native Grassland Conversion, the CRP, and Corn Acreage Changes in the Dakotas." ***American Journal of Agricultural Economics*** (proceedings issue). 95(2): 412-418. doi: https://doi.org/10.1093/ajae/aas112

1. Miao, Ruiqing, David A. Hennessy, and Bruce A. Babcock. 2012. "Investment in Cellulosic Biofuel Refineries: Do Waivable Biofuel Mandates Matter?" ***American Journal of Agricultural Economics***. 94(3): 750-762. doi: https://doi.org/10.1093/ajae/aar142

GRANTS AND CONTRACTS

Secured approximately $16 million in extramural research funding as PI or Co-PI, of which approximately $1.1 million was allocated to my research program.

CONSULTING WORK

11/2021 - 04/2023	U.S. Environmental Protection Agency (USEPA) via Research Triangle Institute (RTI International). Project: "Technical Support for the Triennial Report to Congress on Biofuels: Phase 3 (RtC3 and RtC4)."

OUTREACH ARTICLES (* indicates students)

12. Miao, Ruiqing, Bijesh Mishra, Anand, Mohit, Madhu Khanna, and Fahd Majeed. 2026. "Growth of Sustainable Aviation Fuel May Create a Potential Market for Miscanthus and Switchgrass in the Southern U.S." Southern Ag Today 6(47.3). November 18, 2026. Available at: Here.

11. Miao, Ruiqing and Madhu Khanna. 2020. "The Food-Energy-Water Nexus and Emerging Agricultural Technologies." Farmdoc daily (10):137, Department of Agricultural and Consumer Economics, University of Illinois at Urbana-Champaign, July 24. Available at: Here.

10. Miao, Ruiqing. 2020. "Tradeoff between Short-Term and Long-Term Risk Management Tools: New Study Shows that Crop Insurance May Hinder Agricultural Innovations in Drought-Tolerant Technologies." Farmdoc daily (10):115, Department of Agricultural and Consumer Economics, University of Illinois at Urbana-Champaign, June 24. Available at: Here.

9. Ghosh, Prasenjit N.*, Ruiqing Miao, and Madhu Khanna. 2019. "Wind Energy and Birds: Taller Turbines with Shorter Blades Are More Friendly to Breeding Birds." PolicyMatters. University of Illinois at Urbana-Champaign, July 9th. Available at: Here.

8. Miao, Ruiqing, Madhu Khanna, and Mohit Annad. 2019. "Fear of Losses: Study Shows that Farmers' Loss Aversion Attitude Renders Miscanthus Less Appealing but Switchgrass More Attractive." Farmdoc daily (9):120, Gardner Policy Series. Department of Agricultural and Consumer Economics, University of Illinois at Urbana-Champaign, June 28, 2019. Available at: Here.

7. Miao, Ruiqing, Yijia Li*, and Madhu Khanna. 2018. "New Study Shows that Corn Acreage and Total Crop Acreage are not very Responsive to Local Ethanol Production and Crop Prices." Farmdoc Daily (8):233, Department of Agricultural and Consumer Economics, University of Illinois at Urbana-Champaign, December 20. Available at: Here

6. Wilson, Norbert L.W., Ruiqing Miao, and Carter S. Weis*. 2018. "Study Shows New Evidence That Consumers Are Confused By Date Labels On Food Items." PolicyMatters. University of Illinois at Urbana-Champaign. Available at: Here.

5. Miao, Ruiqing and Madhu Khanna. 2017. "Limited Impact of Biomass Crop Assistance Program (BCAP) Under Current Funding Levels." Farmdoc Daily (7):155, Department of Agricultural and Consumer Economics, University of Illinois at Urbana-Champaign, August 24. Available at: Here.

4. Miao, Ruiqing and Madhu Khanna. 2017. "Reducing costs of meeting a cellulosic biofuel mandate with perennial energy crops: potential roles of energy crop insurance and establishment cost subsidies." PolicyMatters. University of Illinois at Urbana-Champaign. Available at: Here.

3. Miao, Ruiqing, David A. Hennessy, and Hongli Feng. 2017. "How much can the Sodsaver Provision in the 2014 Farm Bill Save Sod? It Depends on Crop Prices." PolicyMatters. University of Illinois at Urbana-Champaign. Available at: Here.

2. Miao, Ruiqing, Hongli Feng, David A. Hennessy, and Xiaodong Du. 2016. "Linkage between Federal Crop Insurance Program and the Conservation Reserve Program: Implications for Budgetary Outlays and Environmental Efficiency." PolicyMatters, November 16. University of Illinois at Urbana-Champaign. Available at: Here.

1. Khanna, Madhu and Ruiqing Miao. 2014. "Policy Incentives for Energy Crop Production: Role of the Biomass Crop Assistance Program." PolicyMatters, June 3rd. University of Illinois at Urbana-Champaign. Available at Here.

SELECTED PRESENTATIONS (26 out of 88)

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26. "Biofuel and ILUC: Evidence from corn and soybean markets in the US." Biofuel Land Use Change (BLU-C) Webinar. Institute of Transportation Studies, University of California, Davis. Tuesday, December 15, 2026. 11:00 AM to 12:00 PM Central Time. Online. (invited, scheduled)

25. "Effects of Heat Stress across the U.S. Farm Profitability Distribution." Department of Economics, University of Oklahoma, March 9, 2026, Norman, OK. (invited)

24. "Adapting to Change: Geography of Climate Change Adaptation in U.S. Agriculture." Department of Agriculture Economics, Purdue University. March 29, 2024. West Lafayette, IN. (invited)

23. "Adapting to Change: Geography of Climate Change Adaptation in U.S. Agriculture." Department of Agricultural and Consumer Economics, University of Illinois Urbana-Champaign. January 18, 2024. Urbana-Champaign, IL. (invited)

22. "Meeting Editors of Applied Economic Perspectives and Policy (AEPP) and of Choices." Southern Agricultural Economics Association (SAEA) Annual Meetings, February 3-6, 2024, Atlanta, GA.

21. "The Political Economy of Agricultural Innovation: A Review." Agricultural & Applied Economics Association (AAEA) Annual Meeting, July 23-25, 2023, Washington, D.C. (invited)

20. "Geography of Climate Change Adaptation in U.S. Agriculture." Department of Agricultural Economics, Texas A&M University, April 24, 2023, College Station, TX. (invited)

19. "Mitigating Climate Change with the Conservation Reserve Program in the United States: The Role of Program Redesign." Allied Social Science Associations (ASSA) Annual Meeting, January 6-8, 2023, New Orleans, Louisiana. (invited)

18. "Local Adaptation to a Warming Climate in U.S. Agriculture." Department of Agricultural and Applied Economics (AAE), University of Wisconsin-Madison, December 9, 2022, Madison, WI. (invited)

17. "Adaptation to Climate Change of US Agriculture: Technology and Policy." Center on Food Security and the Environment, Stanford University. June 1, 2022, Stanford, CA. (invited)

16. "Local Adaptation and Maladaptation to Climate Change of US Agriculture." Leo K. Simon Agriculture & Natural Resources Thursday Seminar Series, Department of Agricultural and Resource Economics, University of California, Berkeley. March 17, 2022, Berkeley, CA. (invited)

15. "Grassland Easement Acquisition: Conversion Hazard Rate, Additionality, and Spatial Spillover." Allied Social Science Associations (ASSA) Annual Meeting, January 7-9, 2022, Boston, MA. (invited)

14. "The Impact of Crop Insurance on Fertilizer Use in the United States." Biosystems Engineering Graduate Seminar, Auburn University, December 2, 2021, Auburn, AL. (invited)

13. "Impact of changes in Title II of the 2018 Farm Bill on the Acreage and Environmental Benefits of Conservation Reserve Program." Program in Environmental and Resource Economics (pERE) Weekly Seminar, Agricultural and Consumer Economics, University of Illinois at Urbana-Champaign. May 3, 2021. (invited)

12. "Climate Change Effects on U.S. Agriculture: Distributional Heterogeneity, Technological Adaptability, and Spatial Spillovers." Department of Economics, Iowa State University, December 2, 2019, Ames, IA. (invited)

11. "Climate Change Effects on U.S. Agriculture: Distributional Heterogeneity, Technological Adaptability, and Spatial Spillovers." Department of Agricultural, Environmental, and Development Economics, Ohio State University, October 17, 2019, Columbus, OH. (invited)

10. "Economics of Switchgrass as Feedstock for Livestock and Bioenergy." Alabama Grazing Academy, Perdido River Farms, September 20, 2019, Atmore, Alabama. (extension presentation)

9. "Climate, Insurance, and Innovation: the Case of U.S. Agriculture." Department of Agricultural and Applied Economics, University of Georgia, March 1, 2019, Athens, GA. (invited)

8. "Climate, Insurance, and Innovation: The Case of the U.S. Agriculture." Department of Agricultural and Resource Economics, Colorado State University, January 22, 2018, Fort Collins, CO. (invited)

7. "Investments in New Technologies — Markets, Risk, and Policy." Department of Agricultural Economics and Rural Sociology, Auburn University, March 5, 2015, Auburn, AL. (invited)

6. "Sodbusting, Crop Insurance and Sunk Conversion Costs." Department of Agricultural Economics and Agribusiness, Louisiana State University, January 28, 2015, Baton Rouge, LA. (invited)

5. "Effectiveness of Alternative Policy Instruments to Induce Energy Crop Production with Establishment Cost and Yield Risk." Department of Agricultural and Applied Economics, University of Georgia, September 22, 2014, Athens, GA. (invited)

4. "Investment in Cellulosic Biofuel Refineries: Do Waivable Biofuel Mandates Matter?" New Mexico State University, May 18, 2012. Las Cruces, NM. (invited)

3. "Crop Insurance Subsidies, Supplemental Revenue Assistance Payments, and Land Use Change." University of Arkansas, May 15, 2012. Fayetteville, AR. (invited)

2. "To Learn or To Change: Optimal R&D Investments under Uncertainties in the Case of Climate Change." East Carolina University, April 13, 2012. Greenville, NC. (invited)

1. "Investment in Cellulosic Biofuel Refineries: Do Waivable Biofuel Mandates Matter?" Energy Biosciences Institute, University of Illinois at Urbana-Champaign, March 2, 2012. Urbana-Champaign, IL. (invited)