

RUIQING MIAO

208B, Comer Hall, Auburn, AL, 36830

Email: miaorong@auburn.edu

Phone : (334) 844-3273

Homepage: www.miaorong.org

Education

Ph.D. in Economics, Iowa State University, Ames, Iowa, USA, 02/2012

Dissertation: *Essays on Investments in New Technologies—Policy, Information, and Learning*. Advisor: David A. Hennessy.

M.A. in Economics, University of Shanghai for Science and Technology, Shanghai, China, 06/2004

B.A. in Economics (double major in International Business Management and Computer Science and Applications), Ocean University of China, Qingdao, China, 07/2001

Professional Experience

Associate Professor

08/2020 – present, Department of Agricultural Economics and Rural Sociology, Auburn University;

Assistant Professor

08/2015 – 08/2020, Department of Agricultural Economics and Rural Sociology, Auburn University;

Affiliated Faculty

09/2015 – present, International Center for Climate and Global Change Research, Auburn University

Postdoctoral and Predoctoral Research Associate

09/2012 – 08/2015, Postdoc, Department of Agricultural and Consumer Economics and Energy Biosciences Institute, University of Illinois at Urbana-Champaign. Advisor: Madhu Khanna

03/2012 – 08/2012, Postdoc, Center for Agricultural and Rural Development (CARD), Iowa State University. Advisor: David A. Hennessy

06/2011 – 02/2012, Predoc, Center for Agricultural and Rural Development (CARD), Iowa State University. Advisor: David A. Hennessy

Instructor and Graduate Assistant

2009 and 2010, Instructor, Summer sessions, Iowa State University

02/2005 – 06/2006, Instructor, Fudan University, China

02/2003 – 06/2003 and 09/2004 - 01/2005, Instructor, University of Shanghai for Science and Technology, China

08/2006 - 05/2011, Graduate Assistant, Department of Economics and Center for Agricultural and Rural Development (CARD), Iowa State University

09/2004 - 07/2006, Graduate Assistant, Department of Economics, Fudan University, China

Selected Honors and Awards

- 2020-2023 Associate Editor, *American Journal of Agricultural Economics*.
2020 Outstanding Publication Award (High Scientific Impact), College of Agriculture, Auburn University.
2019 Emerging Scholar Award, Southern Agricultural Economics Association.
2017 Dean's Grantsmanship Award, College of Agriculture, Auburn University.
2010 Graduate Teaching Excellence Award, Iowa State University.
2010 Graduate and Professional Student Senate Peer Research Award, Iowa State.
2010 Graduate and Professional Student Senate Peer Teaching Award, Iowa State.

Journal Articles (* indicates student co-authors)

25. 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>
24. 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>
23. 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>
22. 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>
21. 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>
20. 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>
19. Schillerberg, Tayler A.*, Di Tian, and Ruiqing Miao. 2019. "Spatiotemporal patterns of maize and winter wheat yields in the United States: predictability and impact from climate oscillations." *Agricultural and Forest Meteorology* 275:208-222. doi: <https://doi.org/10.1016/j.agrformet.2019.05.019>

18. 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>
17. Wilson, Norbert L.W., Ruiqing Miao, and Carter S. Weis*. 2019. "When in Doubt Throw It Out! The Complicated Decision to Consume or Waste Food by Date Labels." *Choices* 34(1):1-7.
16. Wilson, Norbert L.W., Ruiqing Miao, and Carter S. Weis*. 2018. "Seeing is Not Believing: Perceptions of Date Labels over Food and Attributes." *Journal of Food Products Marketing* 24(5):611-631. doi: <https://doi.org/10.1080/10454446.2018.1472700>
15. Tian, Hanqin, Chaoqun Lu, Shufen Pan, Jia Yang, Ruiqing Miao, Wen Ren, Qiang Yu, Bojie Fu, Fei-Fei Jin, Yonglong Lu, Jerry Melillo, Zhiyun Ouyang, Cheryl Palm, John Reilly. 2018. "Optimizing Resource Use Efficiencies in the Food-Energy-Water nexus for Sustainable Agriculture: From Conceptual Model to Decision Support System." *Current Opinion in Environmental Sustainability* 33:104-113. doi: <https://doi.org/10.1016/j.cosust.2018.04.003>
14. 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/aep/px031>
13. 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>
12. 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>
11. Miao, Ruiqing, David A. Hennessy, and Hongli Feng. 2016. "The Effect of Crop Insurance Subsidies and Sodsaver on Land Use Change." *Journal of Agricultural and Resource Economics* 41(2): 247-265.
10. 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>
9. Miao, Ruiqing and David A. Hennessy. 2015. "Optimal Protein Segregation Strategies for Wheat Growers." *Canadian Journal of Agricultural Economics*. 63(3): 309-331. doi: <https://doi.org/10.1111/cjag.12046>

8. Du, Xiaodong, Cindy L. Yu, David A. Hennessy, and Ruiqing Miao. 2015. "Geography of Crop Yield Skewness." *Agricultural Economics*. 46(4): 463-473 (lead article). doi: <https://doi.org/10.1111/agec.12174>
7. 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>
6. Miao, Ruiqing and Madhu Khanna. 2014. "Are Bioenergy Crops Riskier than Corn? Implications for Biomass Price". *Choices*. 29(1).
5. Miao, Ruiqing and David A. Hennessy. 2014. "To Learn or To Change: Optimal R&D Investments under Uncertainty in the Case of Climate Change." *Natural Resource Modeling*. 27(2): 235-257. doi: <https://doi.org/10.1111/nrm.12032>
4. 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>
3. 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>
2. 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>
1. Miao, Ruiqing. 2011. "Bargaining between Firms and Environmental Protection Bureaus: Water Pollution in China." *China Agricultural Economic Review*. 3(1): 80-91. doi: <https://doi.org/10.1108/17561371111103561>

Book Chapter

1. Khanna, Madhu, David Zilberman, and Ruiqing Miao. 2017. "Innovation in Agriculture: Incentives for Adoption and Supply Chain Development for Energy Crops." In Madhu Khanna and David Zilberman ed. *Handbook of Bioenergy Economics and Policy (Volume II)*, Springer Publishers.

Outreach Articles, Conference Proceedings, and Reports (* indicates students)

14. 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: <https://farmdocdaily.illinois.edu/2020/07/the-food-energy-water-nexus-and-emerging-agricultural-technologies.html>

13. 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: <https://farmdocdaily.illinois.edu/2020/06/tradeoff-between-short-term-and-long-term-risk-management-tools.html>
12. 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: <http://policymatters.illinois.edu/wind-energy-and-birds/>
11. 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: <https://farmdocdaily.illinois.edu/2019/06/fear-of-losses-study-shows-that-farmers-loss-aversion-attitude-renders-miscanthus-less-appealing-but-switchgrass-more-attractive.html>
10. 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: <https://farmdocdaily.illinois.edu/2018/12/new-study-shows-that-corn-acreage-and-total-crop-acreage-are-not-very-responsive-to-local-ethanol-production-and-crop-prices.html>
9. 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: <http://policymatters.illinois.edu/study-shows-new-evidence-that-consumers-are-confused-by-date-labels-on-food-items/>
8. 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: <http://farmdocdaily.illinois.edu/2017/08/limited-impact-biomass-crop-assistance-program.html>
7. 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: <http://policymatters.illinois.edu/reducing-costs-of-meeting-a->

[cellulosic-biofuel-mandate-with-perennial-energy-crops-potential-roles-of-energy-crop-insurance-and-establishment-cost-subsidies/](#)

6. 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: <http://policymatters.illinois.edu/how-much-can-the-sodsaver-provision-in-the-2014-farm-bill-save-sod-it-depends-on-crop-prices/>
5. 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: <http://policymatters.illinois.edu/linkage-between-federal-crop-insurance-program-and-the-conservation-reserve-program-implications-for-budgetary-outlays-and-environmental-efficiency/>
4. Miao, Ruiqing, David A. Hennessy, and Hongli Feng. 2014. “Risk Management Subsidies, Production System Switching Costs, and Native Grassland Conversion.” In Proceedings of the 2nd America’s Grasslands Conference --- America's Grasslands: The Future of Grasslands in a Changing Landscape, August 12-14, 2013, Manhattan, Kansas. Available at http://www.nwf.org/~media/PDFs/Media%20Center%20-%20Press%20Releases/2014/Americas-Grasslands-Conference-Proceedings_FINAL_MED_RES-031314.pdf .
3. 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 <http://policymatters.illinois.edu/policy-incentives-for-energy-crop-production-role-of-the-biomass-crop-assistance-program/>.
2. Miao, Ruiqing and Madhu Khanna. 2014. “Economic and Social Impacts of Biofuels.” in *Energy Biosciences Institute Annual Report 2013*. Available at http://www.energybiosciencesinstitute.org/sites/default/files/publications/2013_EBI_AR_small.pdf .
1. Miao, Ruiqing, David A. Hennessy, and Hongli Feng. 2011. “Land Use Consequences of Crop Insurance Subsidies.” In Proceedings of America’s Grasslands Conference --- America’s Grasslands: Status, Threats and Opportunities, August 15-17, 2011, Sioux Falls, SD. Available at <http://www.nwf.org/pdf/Policy-Solutions/Americas%20Grasslands%20Conference%20Proceedings061312.pdf> .

Papers under Review (* indicates graduate students)

-
6. Yu, Chengzheng*, Ruiqing Miao, and Madhu Khanna. “Maladaptation of U.S. Corn and Soybean Yields to a Changing Climate.”

5. Khanna, Madhu and Ruiqing Miao. “Inducing Sustainable Intensification of Agriculture: Insights from Applied Economics.” (R&R at *Australian J. of Agricultural and Resource Economics*)
4. Awolala, David Olufemi, Igbekele Amos Ajibefun, Kehinde Ogunjobi, and Ruiqing Miao. “Integrated Assessment of Human Vulnerability to Climate Hazards: Insights for Allocating Adaptation Resources in the Mangrove Rainforest of Nigeria.” (R&R at *Climate and Development*)
3. Cornish, Brian*, Ruiqing Miao, and Madhu Khanna. “Impact of changes in Title II of the 2018 Farm Bill on the Acreage and Environmental Benefits of Conservation Reserve Program.” (R&R at *Applied Economic Perspectives and Policy*)
2. Miao, Ruiqing, David A. Hennessy, and Hongli Feng. “Grassland Easement Evaluation and Acquisition: An Integrated Framework.”
1. Ghosh, Prasenjit*, Ruiqing Miao, and Emir Malikov. “Crop Insurance Premium Subsidy and Irrigation Water Withdrawals in the United States.”

Selected Work in Progress (* indicates graduate students)

16. “Long Differences with Quantile: Distributional Heterogeneity in U.S. Agricultural Adaptation to Climate Change.” with Jingfang Zhang* and Emir Malikov.
15. “On Economics of Enhancing Food Supply Chain Resilience via Diversifying Distribution Channels: The Case of U.S. Dairy.” with Shijin Wang and Marin Bozic.
14. “Retail Food Access and Household Food Waste.” with Wenying Li, Joel Cuffey, and Yu Yang.
13. “Spatial aggregation of weather variables and its implication in climate change analysis: The case of U.S. Corn and Soybeans.” with Yongjie Ji.
12. “Spatio-temporal Variance, Environmental Risk Assessment, and Economic Analysis of Nitrogen Fertilizer Application over 1985-2016 in Mainland China.” with Bangbang Zhang, Licheng Wang, and Qiang Yu.
11. “Aiming a Smooth Ride on a Rocky Road: A Survey on the PhD Study Experience of 2014-2020 SAEA Emerging Scholar Award Winners.” with Jerrod Penn and Loka Ashwood.
10. “Crop Insurance and Farm Productivity in the United States: Based on a Panel Dataset Constructed from ARMS Data.” with Emir Malikov.
9. “Perennial Energy Crops, Carbon Sequestration, and Optimal Carbon Payment.” with Bijay P. Sharma and Madhu Khanna.

8. "The Effect of Crop Insurance Program on Crop Yields: A Revisit of the Case for U.S. Agriculture." with John Ng'ombe and Joel Cuffey.
7. "Food Waste, Date Labels, and Risk Preferences: An Experimental Exploration." with Norbert Wilson and Carter Weis*.
6. "Ambiguity, Date Labels, and Food Waste." with Roshell Rosales-Aguilar* and Norbert Wilson.
5. "Effectiveness of Payments for GHG mitigation to induce low carbon bioenergy production." with Fahd Majeed* and Madhu Khanna.
4. "Contracting in the Presence of Insurance: The Case of Bioenergy Crop Production." with Mohit Anand* and Madhu Khanna.
3. "Moral Hazard in Hog Insurance: The Case of Henan Province, China." (in Chinese) with Yuhua Zhang and Junyi Liu*.
2. "Grassland Easement Acquisition: Conversion Hazard Rate, Additionality, and Spatial Spillover." with David A. Hennessy, Hongli Feng, and Gaurav Arora.
1. "'Bee' Productive and 'Bee' Safe: A Study of Apiculture Productivity and Apiculture Pilot Insurance Program." with Brian Cornish*, Hayes Grogan*, and Brittney Goodrich.

Publications in Chinese

7. "Welfare Analysis of Economic Growth," (with Jin Feng, Yongping Liu, and Jian Rong). In Zhigang Yuan, ed. *Economic Growth of China: Institution, Structure and Welfare*. Shanghai, China: Fudan University Press, 2006. pp. 287-308.
6. "Improving Welfare: Approaches and Policies," (with Jin Feng, Yongping Liu, and Jian Rong). In Zhigang Yuan, ed. *Economic Growth of China: Institution, Structure and Welfare*. Shanghai, China: Fudan University Press, 2006. pp. 309-328.
5. "Effects of U.S. FDI on its Balance of Payments," (with Jian Rong), *World Economics and Politics (Shijie Jingji yu Zhengzhi)*, 2005, No. 5, pp. 76-80. Reprinted in *Review of Economic Research (Jingji Yanjiu Cankao)*, July 2005 (No. 55).
4. "Analysis of Factors Affecting the Speed and Quantity of China's Rural-Urban Labor Migration: a Revised Todaro Model," (with Jian Rong and Shuhua Zheng), *China Rural Survey (Zhongguo Nongcun Guancha)*, 2004, No.2, pp. 39-45.
3. "Review of the Current Urbanization Strategy from the Perspective of the Ultimate Objective of China's Urbanization," (with Xinyu Wang), *Guangxi Economy (Guangxi Jingji)*, 2003, No.4, pp. 24-25.

2. “Agglomeration and Regional Economic Development,” (with Xinyu Wang), *Learned Journal of Heilongjiang Financial College (Harbin Shangye Daxue Xuebao)*, 2003, No.3, pp. 3-5.
1. “Independent Directors: Not Necessarily a Recipe for Corporate Governance Structure,” (with Xinyu Wang and Tian Tao), *Value Engineering (Jiazhi Gongcheng)*, 2003, No.6.

Unpublished Manuscripts

3. Miao, Ruiqing and David A. Hennessy. “Economic Value of Information: Wheat Protein Measurement.” Iowa State University, 2012.
2. Miao, Ruiqing and Bruce A. Babcock. “Double Irreversibilities and the Development of Advanced Biofuels.” Iowa State University, 2009.
1. Miao, Ruiqing and Bruce A. Babcock. “Is the Carbon Debt of Land-Use Change Caused by Biofuel Growth Too High to Repay?” Iowa State University, 2008.

Grant Applications

Pending

6. Co-PI, “Managing the Climate-Land-Water Nexus towards a climate-resilient sustainable agricultural system in the Southeastern US: A systems approach to enhancing soil health and water resource,” with PI Hanqin Tian (School of Forestry and Wildlife Sciences (SFWS), Auburn) and Co-PIs: Latif Kalin (SFWS, Auburn), Shufen Pan (SFWS, Auburn), Becky Barlow (SFWS, Auburn), Di Tian (Department of Crop, Soil and Environmental Sciences, Auburn), Karen McNeal (Department of Geosciences, Auburn), John King (Department of Forestry and Environmental Resources, NC State), Wei Ren (Department of Plant and Soil Sciences, U. of Kentucky), Jia Yang (Department of Forestry, Mississippi State), Clyde Fraisse (Dept. of Agricultural and Biological Engineering, U. of Florida), Pam Knox (Dept. of Crop and Soil Sciences, U. of Georgia), Dafeng Hui (Dept. of Biological Sciences, Tennessee State), Wenghong Li (Nicholas School of the Environment, Duke U.), Steven McNulty (USDA Southeastern Climate Hub), Ge Sun (Eastern Forest Environmental Threat Assessment Center, USDA Forest Service), and Stephen A. Prior (USDA ARS National Soil Dynamic Laboratory). Agriculture and Food Research Initiative - Sustainable Agricultural Systems, USDA. \$10 million. (LOI submitted on 1/7/2021).
5. Co-PI, “BD INSPIRE: Biomass Derivatives technology to Improve Nationwide Sustainable Productivity In Rural Economies,” with PI Alan Allgeier (Chemical and Petroleum Engineering, U. of Kansas (KU)); Co-PIs at KU: Thomas Binder (Center for Environmentally Beneficial Catalysis), Mark Shiflett (Chemical & Petroleum Engineering), Laurence R. Weatherley (Chemical & Petroleum Engineering), Bala Subramaniam (Chemical & Petroleum Engineering), Juan J. Bravo-Suarez (Chemical & Petroleum Engineering), Kevin C Leonard (Chemical & Petroleum Engineering), Aaron Scurto (Chemical & Petroleum Engineering), Gibum Kwon (Mechanical Engineering); Co-PIs at other institutions: Yonghui Li (Grain Science and Industry, Kansas State), Yi Wang (Biosystems Engineering, Auburn), David R. Nielsen (School for Engineering of

Matter, Transport and Energy, Arizona State), Andrew Magenau (Material Science and Engineering, Drexel U.), Jeffrey McFarlane (Chemistry and Biochemistry, Fort Lewis College), Ron Hector (National Center for Agricultural Utilization Research, USDA), Chris Skory (ARS, USDA), Derek Butler (Scientist III, ADM), and Ortwin Ertl (CEO, Annikki GmbH). Agriculture and Food Research Initiative - Sustainable Agricultural Systems, USDA. \$10 million. (LOI submitted on 1/7/2021).

4. Co-PI, “Designing Agrivoltaics for Sustainably Intensifying Food and Energy Production,” with PI Madhu Khanna (Department of Agricultural and Consumer Economics, UIUC) and Co-PIs Carl Bernacchi (USDA), Evan DeLucia (Department of Plant Biology, UIUC), Greg Barron-Gafford (School of Geography and Development, U. of Arizona), Bruce Branham (Department of Crop Sciences, UIUC), Kaiyu Guan (Department of Natural Resources & Environmental Sciences, UIUC), Bin Peng (Department of Natural Resources & Environmental Sciences, UIUC), Alan Knapp (Department of Biology, Colorado State U.), Chad Lane (Department of Educational Psychology, UIUC), DK Lee (Department of Crop Sciences, UIUC), Nenad Miljkovic (Department of Mechanical Science and Engineering, UIUC), Nuria Gomez-Casanovas (Department of Plant Biology, UIUC), Iris Caldwell (Energy Resource Management, UI-Chicago), Samantha Lindgren (Education Policy, Organization and Leadership, UIUC), Dennis Bowman (Agriculture and Natural Resources, University of Illinois Extension, Urbana-Champaign), Jordan Macknick (National Renewable Energy Laboratory, Golden), and Ron Meyer (Agronomist, Colorado State University Extension). Agriculture and Food Research Initiative - Sustainable Agricultural Systems, USDA. \$10 million. (LOI submitted on 1/7/2021).
3. Co-PI, “A transdisciplinary approach to secure the safety of the food supply system while protecting the environment,” with PI Ken Macklin (Poultry Science, Auburn) and Co-PIs Kristin Woods (Alabama Cooperative Extension System/ Produce Safety Alliance, Auburn University/Cornell University), Christopher Clemons (Agriscience Education, Auburn), Rishi Prasad (Crop, Soil, and Environmental Sciences, Auburn), Yucheng Feng (Crop, Soil, & Environmental Sciences, Auburn), Stuart Price (Pathobiology, Auburn), Daniel Wells (Horticultural Science, Auburn), Tung-Shi Huang (Poultry Science, Auburn), Joe Kemble (Horticulture, Auburn), Soren Rodning (Animal Sciences, Auburn), Ayanava Majumdar (Entomology and Plant Pathology, Auburn), Dianna Bourassa (Poultry Science, Auburn), Jasmeet Lamba (Biosystems Engineering), Aaron S. Kiess (Poultry Science, Mississippi State), Juan Silva (Food Science, Nutrition, and Health Promotion, Mississippi State), Chris Gunter (Horticultural Science, North Carolina State), Brian Fairchild (Poultry Science, University of Georgia), and Kristen Gibson (Food Science, University of Arkansas). Agriculture and Food Research Initiative - Sustainable Agricultural Systems, USDA. \$10 million. (LOI submitted on 1/7/2021)
2. Co-PI. “EFRI E3P Preliminary Proposal: Super Critical Extraction for the Elimination of End-of-Life Plastics (SCE3P).” with PI Edward Davis (Mechanical Engineering, Auburn), Co-PIs Virginia Davis (Chemical Engineering, Auburn), Yucheng Peng (Forestry & Wildlife Sciences, Auburn). NSF (EFMA-EFRI Research Projects). 8/15/2021-8/14/2025. \$1,272,384. (submitted on 1/12/2021)

1. Co-PI, “Development of food service paperboards with enhanced greaseproof property and recyclability,” with PI Brian Via (Forestry & Wildlife Sciences, Auburn), and Co-PIs: Yucheng Peng (Forestry & Wildlife Sciences, Auburn), Soledad Peresin (Forestry & Wildlife Sciences, Auburn), Ronalds Gonzalez (Forest Biomaterials, NC State). 2020 Southeastern Sun Grant Regional Grants (2021-2024). 02/01/2021-01/31/2024. \$337,397. (submitted on 10/1/2020)

Funded

9. Co-PI, “INFEWS U.S.-China: Integrated Systems Modeling for Sustainable FEW Nexus under Multi-factor Global Changes: Innovative Comparison between the Yellow River and Mississippi River Basins,” with PI Hanqin Tian (Auburn) and Co-PIs: Chaoqun Lu (Iowa State), Susan Pan (Auburn), Qiang Yu (Northwest Agriculture and Forestry U. (NWAUFU) and Chinese Academy of Sciences), and Hao Feng, Jianqiang He, Bangbang Zhang (NWAUFU); Xiaojun Wang and Anbang Peng (State Key Laboratory of Hydrology-Water Resources and Hydraulic Engineering, Nanjing Hydraulic Research Institute (NHRI)). NSF/NSFC Joint Research on Environmental Sustainability Challenges (INFEWS: U.S.-China). 07/1/2019-6/30/2023. \$500,000 for U.S.-based researchers from NSF and ¥2,998,600 for China-based researchers from NSFC in the team. Award number: 1903722. (submitted in 10/2018; award abstract available at: https://www.nsf.gov/awardsearch/showAward?AWD_ID=1903722)
8. Co-PI, “Exploring plant-microbiome-environment interactions towards tailoring plant disease management,” with PI Neha Potnis (Auburn, Entomology and Plant Pathology) and Co-PIs Edward Sikora (Auburn, Entomology and Plant Pathology), Di Tian (Auburn, Crop Soil and Environmental Sciences), and Karen Garrett (U. of Florida, Plant Pathology). Foundation for Food and Agriculture Research (FFAR), 2019 New Innovator in Food and Agriculture Research Award. \$581,992.89 (FFAR funds and matching funds). (submitted in 04/2019).
7. PI, “‘Bee’ Productive and ‘Bee’ Safe: A Study of Apiculture Productivity and Apiculture Pilot Insurance Program,” with Co-PI Brittney Goodrich (Department of Agricultural Economics and Rural Sociology, Auburn University). FY2019 AAES Award for Agricultural Research Enhancement, Exploration and Development (AAES-AgR-SEED) program, Alabama Agricultural Experiment Station, Auburn University. 10/1/2018-9/30/2020. \$50,000. (submitted in 06/2018; proposal ranked top 1 among 24 submissions to the 2018 AAES-AgR-SEED program)
6. Co-PI, “Reducing Antibiotic Use in Catfish Aquaculture: A New Approach to Control Enteric Septicemia of Catfish (ESC) Using CRISP,” with Yi Wang (PI, Biosystems Engineering), Co-PIs Cova Arias and Allen Davis (both of School of Fisheries, Aquaculture and Aquatic Sciences). All PIs are from Auburn University. FY2019 AAES Award for Interdisciplinary Research (AAES-AIR) program, Alabama Agricultural Experiment Station, Auburn University. 10/1/2018-9/30/2020. \$140,000. (submitted in 06/2018)

5. PI, “Production Risk of Alabama Agriculture: Its Determinants and the Effects of Risk Management Tools on Farmers’ Production Efficiency and Welfare,” with Co-PIs Emir Malikov, Denis Nadolnyak, and Max Runge, all in Department of Agricultural Economics and Rural Sociology, Auburn University. Production Agriculture Research Funding Program, Alabama Agricultural Experiment Station, Auburn University. 5/1/2017-4/30/2019. \$35,000. (submitted in 02/2017)
4. Co-PI, “Understanding and Advancing Agroclimate Forecasting for Decision Making,” with Di Tian (PI, Crop, Soil, and Environmental Sciences, Auburn University), and Co-PIs: William D. Batchelor (Biosystems Engineering, Auburn University), Hanqin Tian (School of Forestry and Wildlife Sciences, Auburn University), and Senthold Asseng (Agricultural and Biological Engineering, University of Florida). Intramural Grants Program, Auburn University. 5/1/2017-4/30/2019. \$40,000. (submitted in 12/2016)
3. PI, “Incentivizing Feedstock Supply for the Bioeconomy: Implications for Ecosystem Services and Policy Design” with Madhu Khanna (Co-PI) and Evan DeLucia (Co-PI), Agriculture and Food Research Initiative: Foundational Program, National Institute of Food and Agriculture, USDA. \$499,886. 05/01/2017 - 4/30/2020. Award number: 2017-67019-26283. (submitted in 07/2016; proposal ranked top 1 among 23 submissions to the same priority area)
2. Co-PI, “Establishing and Promoting Regional and Farm-Specific Brands for Specialty Crops in Alabama” with Deacue Fields (PI), Loka Ashwood (Co-PI), and Joe Kemble (Co-PI), USDA Specialty Crop Block Grant. \$25,000. 01/02/2017 to 5/31/2018. (submitted in 05/2016)
1. Co-PI, “Risk Mitigation Strategies to Induce Participation in the Advanced Biofuel Industry by Small/Medium-Sized Farmers: Effectiveness and Implications for Policy Design,” with Madhu Khanna (PI) and Nicholas Paulson (Co-PI), Agriculture and Food Research Initiative: Foundational Program, National Institute of Food and Agriculture, USDA. \$495,000. Award number: 2014-68006-21872. 04/01/2014 - 03/31/2017. (submitted in 05/2013)

Unfunded

17. Co-PI. “Development of food service paperboards with enhanced greaseproof property and recyclability,” with PI Yucheng Peng (School of Forestry and Wildlife Sciences, Auburn) and Co-PIs: Zhihua Jiang (Department of Chemical Engineering, Auburn), Soledad Peresin (School of Forestry and Wildlife Sciences, Auburn), Yi Wang (Biosystems Engineering, Auburn), and Brian Via (School of Forestry and Wildlife Sciences, Auburn). FY2021 AAES Award for Interdisciplinary Research (AAES-AIR) program, Alabama Agricultural Experiment Station, Auburn University. 10/1/2020-9/30/2022. \$149,480. (submitted in 05/2020)
16. SP, “Transforming Food and Solar Energy Production Using Agrivoltaics,” with PI Madhu Khanna (Department of Agricultural and Consumer Economics, UIUC) and Co-PIs or SPs Carl Bernacchi (USDA), Evan DeLucia (Department of Plant Biology,

UIUC), Greg Barron-Gafford (School of Geography and Development, U. of Arizona), Bruce Branham (Department of Crop Sciences, UIUC), Kaiyu Guan (Department of Natural Resources & Environmental Sciences, UIUC), Bin Peng (Department of Natural Resources & Environmental Sciences, UIUC), Alan Knapp (Department of Biology, Colorado State U.), Chad Lane (Department of Educational Psychology, UIUC), Nenad Miljkovic (Department of Mechanical Science and Engineering, UIUC), Nuria Gomez-Casanovas (Department of Plant Biology, UIUC), Steve John (Agricultural Watershed Institute, Decatur, Illinois). Agriculture and Food Research Initiative - Sustainable Agricultural Systems, USDA. \$10 million. (LOI submitted on 06/03/2019, full proposal submission invited on 06/27/2019, full proposal submitted on 09/26/2019).

15. Co-PI, “A transdisciplinary approach to secure the safety of the food supply system while protecting the environment,” with PI Ken Macklin (Poultry Science, Auburn) and Co-PIs Kristin Woods (Alabama Cooperative Extension System/ Produce Safety Alliance, Auburn University/Cornell University), Christopher Clemons (Agriscience Education, Auburn), Rishi Prasad (Crop, Soil, and Environmental Sciences, Auburn), Yucheng Feng (Crop, Soil, & Environmental Sciences, Auburn), Stuart Price (Pathobiology, Auburn), Daniel Wells (Horticultural Science, Auburn), Tung-Shi Huang (Poultry Science, Auburn), Joe Kemble (Horticulture, Auburn), Soren Rodning (Animal Sciences, Auburn), Ayanava Majumdar (Entomology and Plant Pathology, Auburn), Dianna Bourassa (Poultry Science, Auburn), Jasmeet Lamba (Biosystems Engineering), Aaron S. Kiess (Poultry Science, Mississippi State), Juan Silva (Food Science, Nutrition, and Health Promotion, Mississippi State), Chris Gunter (Horticultural Science, North Carolina State), Brian Fairchild (Poultry Science, University of Georgia), and Kristen Gibson (Food Science, University of Arkansas). Agriculture and Food Research Initiative - Sustainable Agricultural Systems, USDA. \$10 million. (LOI submitted on 06/04/2019, full proposal submission invited on 06/27/2019, full proposal submitted on 09/26/2019, proposal declined for review on 10/02/2019 due to 3 minutes and 54 seconds later than deadline).
14. Co-PI, “Developing Model, Multi-disciplinary Efforts to Combat Food Insecurity on College Campuses,” with PI Amit Morey (Poultry Science) and Co-PIs Glenn Loughridge (Campus Dining), Shashank Rao (Department of Systems and Technology), Drew Fruge (Nutrition, Dietetics, & Hospitality Management), Alicia Powers (Nutrition, Dietetics, & Hospitality Management), Joel Cuffey (Agricultural Economics and Rural Sociology), all at Auburn. Foundation for Food and Agriculture Research (FFAR). \$1,000,000 (FFAR funds and matching funds). (LOI submitted in 04/2019, full proposal submission invited on 06/13/2019, PI decided not to submit in 2019).
13. Co-PI, “A Pilot Unified Decision Support System for Cotton Target Spot Management,” with Di Tian (PI, Crop, Soil, and Environmental Sciences, Auburn University), Co-PIs William Batchelor (Biosystems Engineering, Auburn University), Kira Bowen (Entomology and Plant Pathology, Auburn University), Austin Hagan (Entomology and Plant Pathology, Auburn University), Ian Small (Plant Pathology, University of Florida), and Clyde Fraisse (Agricultural and Biological Engineering, University of Florida).

Agriculture and Food Research Initiative: Foundational Program, National Institute of Food and Agriculture, USDA. \$500,000. (submitted in 07/2018).

12. Co-PI, “CHESS Research Initiative for Sustainable Earth and Society (CHESS-RISES),” with PI Hanqin Tian (School of Forestry and Wildlife Sciences) and about 30 Co-PIs across ten colleges, all at Auburn. Presidential Awards for Interdisciplinary Research (PAIR), Tier III – High Impact Teams, Auburn University. \$1.5 million for three years. (submitted in 03/2018)
11. Co-PI, “Integrating Big Data into Coupled Ecosystem and Economic Modelling to Assess Impact of Climate Variability on Crop Yield in Africa and Its Implications to U.S. Agricultural Economy,” with PI Susan Pan (School of Forestry and Wildlife Sciences), Co-PIs Ryan Goodrich (Agricultural Economics and Rural Sociology), Bo Liu (Computer Science and Software Engineering), Yang Zhou (Computer Science and Software Engineering), Christopher Burton (Geosciences), all at Auburn University. Presidential Awards for Interdisciplinary Research (PAIR), Tier I – New Teams, Auburn University. \$300,000 for three years. (submitted in 03/2018)
10. Co-I, “Sustainable Water Allocation for Food Production: Development of a Stakeholder Decision Support Process and Associated Models for Evaluation of Consequences of Water Management Alternatives,” with PI William Batchelor (Biosystems Engineering, Auburn U.) and Co-PIs Elise Irwin (USGS and School of Fisheries, Aquaculture and Aquatic Sciences, Auburn University), Puneet Srivastava (Biosystems Engineering, Auburn U.), David Blersch (Biosystems Engineering, Auburn U.), Brenda Ortiz (Crop, Soil and Environmental Sciences, Auburn U.), Eve Brantley (Crop, Soil and Environmental Sciences, Auburn U.), Xing Fang (Civil Engineering, Auburn U), Ming-Kuo Lee (Geosciences, Auburn U.), Chris Anderson (Forestry and Wildlife Sciences, Auburn U), Stacey Blersch (Earth and Space Sciences, Columbus State U.), Mike Colvin (Wildlife, Fisheries and Aquaculture, Mississippi State U.), and Gregory Kiker (Agriculture and Biological Engineering, U. of Florida). USDA/AFRI: Water for Food Production Systems. Program Area Priority Code: A9101. \$5,199,998. (submitted in 08/2017).
9. Collaborator/consultant, “Linking Physiology and Hydrology for Water-Resilient Landscapes that Enhance and Sustain Agricultural Production in the US Corn Belt,” with PI Evan H. DeLucia (Department of Plant Biology and Institute for Sustainability, Energy, and Environment, U. of Illinois); Co-PIs Raymond Arritt (Agronomy, Iowa State), Carl Bernacchi (Plant Biology, U. of Illinois), Ximing Cai (Civil and Environmental Engineering, U. of Illinois), Adam Davis (USDA ARS and Crop Sciences, U. of Illinois), Nuria Gomez-Casanovas (Sustainability, Energy, and Environment, U. of Illinois), Kaiyu Guan (Natural Resources and Environmental Sciences, U. of Illinois), Carol Hays (Prairie Rivers Network), Nick Jordan (Agronomy and Plant Genetics, U. of Minnesota), Madhu Khanna (Agricultural and Consumer Economics, U. of Illinois), David Mulla (Soil, Water, and Climate, University of Minnesota), Tracy Twine (Soil, Water, and Climate, University of Minnesota), Andy

- VanLoocke (Agronomy, Iowa State). USDA/AFRI: Water for Food Production Systems. Program Area Priority Code: A9101. \$5 million. (submitted in 08/2017).
8. Co-PI, “Understanding and quantifying the nexus of food-energy-water systems: optimizing resource use toward sustainable agriculture in the Mississippi River Basin and the Yellow River Basin,” with PI Hanqin Tian (Auburn) and Co-PIs: Chaoqun Lu (Iowa State), Jia Yang (Auburn), Qiang Yu (Chinese Academy of Sciences), and Hao Feng, Jianqiang He (NWAFU); Changhe Lu, Huimin Yan (Institute of Geographical and Natural Resources Research (IGNRR), Chinese Academy of Sciences), and Xiaojun Wang and Anbang Peng (State Key Laboratory of Hydrology-Water Resources and Hydraulic Engineering, Nanjing Hydraulic Research Institute (NHRI)). NSF ENG/CBET Environmental Sustainability Program (7643) on NSF/NSFC Joint Research on Environmental Sustainability Challenges (INFEWS: U.S. - China). \$499,817 for U.S.-based researchers and ¥3,000,000 for China-based researchers in the team. (submitted in 10/2017).
 7. Co-PI, “Biogas Derived Single Cell Protein as an Aquaculture Feed,” with PI Jin Wang (Chemical Engineering, Auburn University); Co-PIs Qinghua He (Chemical Engineering, Auburn University), and Brendan Higgins (Biosystems Engineering, Auburn University). Agriculture and Food Research Initiative: Foundational Program, National Institute of Food and Agriculture, USDA. \$500,000. (submitted in 06/2017).
 6. Co-PI, “A Decision Support System for Target Spot Disease in the Southeastern Cotton Belt,” with PI Di Tian (Crop, Soil, and Environmental Sciences, Auburn University), Co-PIs William Batchelor (Biosystems Engineering, Auburn University), Kira Bowen (Entomology and Plant Pathology, Auburn University), Austin Hagan (Entomology and Plant Pathology, Auburn University), Ian Small (Plant Pathology, University of Florida), and Eric Wood (Civil and Environmental Engineering, Princeton University). Agriculture and Food Research Initiative: Foundational Program, National Institute of Food and Agriculture, USDA. \$500,000. (submitted in 06/2017).
 5. Co-PI, “INFEWS/T3: W2FEW: A Next-generation Scalable and Sustainable Waste Conversion Technology,” with PI Jin Wang (Chemical Engineering, Auburn University); Co-PIs Qinghua He (Chemical Engineering, Auburn University), Brendan Higgins (Biosystems Engineering, Auburn University), Mary Lidstrom (Microbiology, University of Washington at Seattle); and Senior Investigators Gene Simpson (Agricultural Economics and Rural Sociology, Auburn University), Lee Schulz (Economics, Iowa State University). National Science Foundation, Innovations at the Nexus of Food, Energy and Water Systems. 2017-2021. \$1,691,855 (among which \$199,952 for social economic analysis led by Co-PI Miao) (submitted in 03/2017).
 4. Co-PI, “Global Changes and Agriculture Sustainability in Monsoon Asia,” with Hanqin Tian (PI, Auburn University); Co-PIs at Auburn University: Shufen Pan, Sanjiv Kumar, William Batchelor, Di Tian, Ming-Kuo Lee, Kelly Alley, Kai Chang, Bo Liu; and Co-PIs at other institutions: John Reilly (MIT), Jerry Melillo (MBL), Karen Seto (Yale), Z. Ouyang (Chinese Academy of Sciences), Z. Li (China Agri. Univ.), J. Huang (Zhejiang

- Univ.), VK Dadhwal, P.R. Roy (India), J. Liu (UNEP); H. Virji (START), Akihiko Ito (Japan). National Science Foundation, Partnerships for International Research and Education. 2017-2021. \$4 million. (submitted in 09/2016)
3. Senior Investigator, “REEU Site: Preparing Future Research and Extension Leaders for Biofuels and Bioproducts Production from Lignocellulosic Biomass” with Sushil Adhikari (PI) and many others, USDA-NIFA. 10/01/2016-9/31/2019. \$299,738. (submitted in 03/2016)
 2. Co-PI, “Effects of Ethanol Refineries on Land Use Change and Greenhouse Gas Emissions in U.S. Prairie Pothole Region,” with David A. Hennessy (PI) and Hongli Feng (Co-PI), Agriculture and Food Research Initiative Competitive Grants Program: Sustainable Bioenergy, National Institute of Food and Agriculture, USDA. (submitted in 10/2011)
 1. Co-PI, “Effects of U.S. Ethanol Refineries on Local Land-use and on Greenhouse Gas Emissions” (\$30,000), with David A. Hennessy (PI) and Hongli Feng (Co-PI), Biobased Industry Center Grants Program, Biobased Industry Center at Iowa State University. (submitted in 02/2011)

Media Coverage

16. “Neonicotinoids and Decline in Bird Biodiversity in the United States.” Nature Sustainability. doi: <https://doi.org/10.1038/s41893-020-0582-x> covered by: The Guardian (<https://www.theguardian.com/environment/2020/aug/10/pesticides-us-birds-species-biodiversity-study>), Scimex (<https://www.scimex.org/newsfeed/neonicotinoid-pesticides-harm-birds-in-usa>), Gizmodo (<https://earther.gizmodo.com/popular-pesticides-are-killing-birds-too-1844673035>), Trends Wide (<https://trendswide.com/alarm-as-pesticides-spur-rapid-decline-of-us-bird-species-environment/>), BirdWatching (<https://www.birdwatchingdaily.com/news/science/grassland-bird-decline-neonicotinoids/>). A brief YouTube video about the research: https://www.youtube.com/watch?v=mBH_wQ0t9dE. A Podcast about the research: <https://soundcloud.com/user-451767727-776956376/01-ceos-podcast-birds-and-neonic-pesticides>. Also featured in “Member in the News” sponsored by Agricultural and Applied Economics Association on August 24, 2020. Available at: <http://blog.aaea.org/>
15. “Tradeoff between Short-Term and Long-Term Risk Management Tools.” Farms.com News, June 25, 2020. Also featured in “Member in the News” sponsored by Agricultural and Applied Economics Association on July 6, 2020. Available at: <http://blog.aaea.org/>
14. “Survey Endorses Local Branding for Alabama Specialty Crops.” Featured in “Member in the News” sponsored by Agricultural and Applied Economics Association on June 22, 2020. Available at: <http://blog.aaea.org/>
13. “Faculty Achievement Highlights” in *Auburn Research* magazine, Spring 2020 Issue. Available at: <http://ocm.auburn.edu/research-magazine/2020-spring/> (accessed May 6, 2020).

12. “Auburn’s Department of Agricultural Economics and Rural Sociology conducts integrated research to look at the human side of science.” Office of Communications & Marketing News Articles, Auburn University. December 6, 2019.
11. “AU faculty members receive major NSF grant.” Opelika-Auburn News, Sunday, October 27, 2019.
10. “Auburn faculty members receive major NSF funding to study the sustainability of two mother river basins.” Office of Communications & Marketing News Articles, Auburn University. October 24, 2019.
9. “Integrated research looks at human side of science.” The Season, Auburn University College of Agriculture Magazine, October 8, 2019.
8. “Wind turbine design and placement can mitigate negative effect on birds.” Ohio’s Country Journal (July 26, 2019) and University of Illinois College of Agricultural, Consumer and Environmental Sciences News (July 18, 2019). Also featured in “Member in the News” sponsored by Agricultural and Applied Economics Association on August 5, 2019.
7. “Survey endorses local branding for Alabama specialty crops.” GrowingAmerica, July 1, 2019; Opelika-Auburn News, Wednesday, July 10, 2019. Also covered by WLTZ NBC 38 and CW GA-BAMA on August 29, 2019.
6. “Survey endorses local branding for Alabama specialty crops.” Office of Communications & Marketing News Articles, Auburn University. June 28, 2019.
5. “Incentivizing Feedstock Supply for the Bioeconomy.” National Institute of Food and Agriculture (NIFA) of USDA, NIFA Impacts. April 12, 2019.
4. “Empirical Evidence Suggests Negligible Indirect Land Use Effect of Corn Ethanol in the U.S.” Agricultural & Applied Economics Association Press Releases. January 28, 2019.
3. “Corn ethanol production has minimal effect on cropland use, study shows.” Illinois College of Agricultural, Consumer and Environmental Sciences News. December 20, 2018.
2. “Auburn research to help expand bioenergy markets.” Office of Communications & Marketing News Articles, Auburn University. February 9, 2018.
1. “Study shows how crop prices and climate variables affect yield and acreage.” Phys.org and University of Illinois College of Agricultural, Consumer and Environmental Sciences News. November 17, 2015.

Presentations

55. "Time-Varying Adaptation of U.S. Corn and Soybean Yields to a Changing Climate." Applied Microeconomics Seminar, Department of Economics, Auburn University, November 4, 2020, Auburn, AL.
54. "Time-Varying Adaptation of U.S. Corn and Soybean Yields to a Changing Climate." Department of Agricultural Economics and Rural Sociology, Auburn University, October 26, 2020, Auburn, AL.
53. "Grassland Easement Acquisition: Conversion Hazard Rate, Additionality, and Spatial Spillover." The 2020 Annual Association of Environmental and Resource Economists (AERE) Summer Conference. June 4-5. Virtual conference (originally planned location: Hyatt Regency Miami, FL).
52. "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.
51. "Climate Change Effects on U.S. Agriculture: Distributional Heterogeneity, Technological Adaptability, and Spatial Spillovers." Department of Agricultural Economics and Rural Sociology, Auburn University, November 18, 2019, Auburn, AL.
50. "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.
49. "Economics of Switchgrass as Feedstock for Livestock and Bioenergy." Alabama Grazing Academy, Perdido River Farms, September 20, 2019, Atmore, Alabama. (extension presentation)
48. "Climate, Insurance, and Innovation: the Case of U.S. Agriculture." Department of Agricultural and Applied Economics, University of Georgia, March 1st, 2019, Athens, GA.
47. "Climate, Insurance, and Innovation: the Case of U.S. Agriculture." Emerging Scholar Invited Symposium, Southern Agricultural Economics Association (SAEA) Annual Meetings, February 2-5, 2019, Birmingham, AL.
46. "The Determinants of Conservation Reserve Program Acreage Supply in the United States." Applied Microeconomics Lunch Seminar, Department of Economics, Auburn University, November 28, 2018, Auburn, AL.
45. "Climate Change Effects on U.S. Agriculture: Distributional Heterogeneity, Technological Adaptability, and Spatial Spillovers." Auburn Research Faculty Symposium, October 23, 2018, Auburn, AL. (poster presentation)

44. “Nonparametric Estimates of the Climate Change Effects on U.S. Agriculture: Heterogeneity, Nonlinearities, Nonseparabilities and Spatial Spillovers.” Agricultural & Applied Economics Association (AAEA) Annual Meeting, August 5-7, 2018, Washington, D.C.
43. “Climate, Insurance, and Innovation: The Case of the U.S. Agriculture.” Department of Agricultural and Resource Economics, Colorado State University, January 22nd, 2018, Fort Collins, CO.
42. “Incentivizing Feedstock Supply for the Bioeconomy: Implications for Ecosystem Services and Policy Design.” USDA-NIFA Bioeconomy Agroecosystem and Natural Resources Project Directors Meeting, October 20-23, 2017, Tampa, FL.
41. “Adopting Bio-Energy Crops: Does Farmers’ Attitude toward Loss Matter?” (Poster Presentation). USDA-NIFA Bioeconomy Agroecosystem and Natural Resources Project Directors Meeting, October 20-23, 2017, Tampa, FL.
40. “Climate, Insurance, and Innovation: The Case of the U.S. Agriculture.” Department of Economics, Auburn University, September 15, 2017, Auburn, AL.
39. “Climate, Insurance, and Innovation: The Case of the U.S. Agriculture.” The 1st CHES Workshop on Coupled Human-Earth System Solutions for Global Sustainability. Auburn University, August 14, 2017, Auburn, AL.
38. “Grassland Easement Evaluation and Acquisition: A Stochastic Dynamic Perspective.” The 6th Annual Association of Environmental and Resource Economists (AERE) Summer Conference, May 31st – June 2nd, 2017, Pittsburgh, PA.
37. “Climate, Insurance, and Innovation: The Case of the U.S. Agriculture.” 2017 Annual Meeting of SCC-76 (Economics and Management of Risk in Agriculture and Natural Resources), March 30 – April 1, 2017, Pensacola Beach, FL.
36. “Incentivizing Feedstock Supply for the Bioeconomy: Implications for Ecosystem Services and Policy Design.” International Center for Climate and Global Change Research, Auburn University, February 10, 2017, Auburn, AL.
35. “Grassland Easement Evaluation and Acquisition: an Integrated Framework.” Southern Agricultural Economics Association (SAEA) Annual Meetings, February 4-7, 2017, Mobile, AL.
34. “Climate, Insurance, and Innovation: The Case of the U.S. Agriculture.” The 74th Professional Agricultural Workers Conference, Tuskegee University, December 6, 2016, Tuskegee, Alabama.

33. "Grassland Easement Evaluation and Acquisition: A Stochastic Dynamic Perspective." Agricultural & Applied Economics Association (AAEA) Annual Meeting, July 31-August 2, 2016, Boston, MA.
32. "Crop Yield, Land Use, and Land Conservation." International Center for Climate and Global Change Research, Auburn University, June 15, 2016, Auburn, AL.
31. "Climate, Insurance, and Innovation: The Case of the U.S. Agriculture." The 5th Annual Association of Environmental and Resource Economists (AERE) Summer Conference, Sponsored Session, June 9-11, 2016, Breckenridge, CO.
30. "Climate, Insurance, and Innovation: The Case of the U.S. Agriculture." The 15th Occasional Workshop in Environmental and Resource Economics. University of California, Santa Barbara, October 2-3, 2015, Santa Barbara, CA.
29. "The Biomass Crop Assistance Program: Critical, Notional, or Distortional Support for Cellulosic Biofuels?" Agricultural & Applied Economics Association (AAEA) Annual Meeting, July 26-28, 2015, San Francisco, CA.
28. "Investments in New Technologies – Markets, Risk, and Policy." Department of Agricultural Economics and Rural Sociology, Auburn University, March 5th, 2015, Auburn, AL.
27. "Sodbusting, Crop Insurance and Sunk Conversion Costs." Department of Agricultural Economics and Agribusiness, Louisiana State University, January 28th, 2015, Baton Rouge, LA.
26. "Assessing Cost-effectiveness of the Conservation Reserve Program and Its Interaction with Crop Insurance Subsidies." Departmental Workshop of the Program in Environmental and Resource Economics, Department of Agricultural and Consumer Economics, University of Illinois at Urbana-Champaign, Urbana, IL. December 1st, 2014.
25. "Effectiveness of Alternative Policy Instruments to Induce Energy Crop Production with Establishment Cost and Yield Risk." Departmental Workshop of the Program in Environmental and Resource Economics, Department of Agricultural and Consumer Economics, University of Illinois at Urbana-Champaign, Urbana IL. October 6th, 2014.
24. "Effectiveness of Alternative Policy Instruments to Induce Energy Crop Production with Establishment Cost and Yield Risk." Energy Biosciences Institute Internal Seminar, September 25th, 2014, University of Illinois at Urbana-Champaign, Urbana, IL.
23. "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 22nd, 2014, Athens, GA.

22. “Why Price Subsidies May Not be Enough to Induce Production of Energy Crops for Cellulosic Biofuels.” In the Invited Paper session “What Will It Take to Get Energy Crops Off the Ground: Land Use Subsidies, Price Subsidies, and Crop Insurance?” at Agricultural & Applied Economics Association (AAEA) Annual Meeting, July 27-29, 2014, Minneapolis, MN.
21. “Sodbusting, Crop Insurance and Sunk Conversion Costs.” Department of Agricultural Economics, Kansas State University, July 22nd, 2014, Manhattan, KS.
20. “Crop Insurance for Energy Grasses.” 2013 Crop Insurance and the Farm Bill Symposium, October 8-9, 2013, Louisville, KY.
19. “Responsiveness of Crop Yield and Acreage to Price and Climate.” In the organized symposium “Measuring the Impacts of Weather on Crop Yields: Different Approaches for Different Purposes” at Agricultural & Applied Economics Association (AAEA) Annual Meeting, August 4-6, 2013, Washington D.C.
18. “Riskiness of Bioenergy Crop Production in the United States.” (Poster Presentation) Agricultural & Applied Economics Association (AAEA) Annual Meeting, August 4-6, 2013, Washington D.C.
17. “Responsiveness of Crop Yield and Acreage to Price and Climate.” Departmental Workshop of the Program in Environmental and Resource Economics, Department of Agricultural and Consumer Economics, University of Illinois at Urbana-Champaign. April 30, 2013.
16. “To Learn or To Change: Optimal R&D Investments under Uncertainties in the Case of Climate Change.” Allied Social Science Associations (ASSA) Annual Meeting. January 4-6, 2013. San Diego, CA.
15. “To Learn or To Change: Optimal R&D Investments under Uncertainties in the Case of Climate Change.” Association of Environmental and Resource Economists Summer Conference. June 3-5, 2012. Asheville, NC.
14. “Land Use Consequences of Crop Insurance Subsidies and Sodsaver.” Environmental and Resource Economics Workshop, Iowa State University, May 9th, 2012. Ames, IA.
13. “Investment in Cellulosic Biofuel Refineries: Do Waivable Biofuel Mandates Matter?” New Mexico State University, May 18th, 2012. Las Cruces, NM.
12. “Crop Insurance Subsidies, Supplemental Revenue Assistance Payments, and Land Use Change.” University of Arkansas, May 15th, 2012. Fayetteville, AR.
11. “To Learn or To Change: Optimal R&D Investments under Uncertainties in the Case of Climate Change.” East Carolina University, April 13th, 2012. Greenville, NC.

10. "Investment in Cellulosic Biofuel Refineries: Do Waivable Biofuel Mandates Matter?" Energy Biosciences Institute, University of Illinois at Urbana-Champaign, March 2nd, 2012. Urbana-Champaign, IL.
9. "Land Use Consequences of Crop Insurance Subsidies." Heartland Environmental and Resource Economics Workshop. October 22, 2011. Urbana-Champaign, IL.
8. "Land Retirement Program Design and Empirical Assessments in the Presence of Crop Insurance Subsidies." America's Grasslands Conference --- America's Grasslands: Status, Threats and Opportunities, August 15-17, 2011, Sioux Falls, SD.
7. "Economic Value of Information: Wheat Protein Measurement." Agricultural & Applied Economics Association (AAEA) Annual Meeting, July 24-26, 2011, Pittsburgh, PA.
6. "Investment in Cellulosic Biofuel Refineries: Do Biofuel Mandates Matter?" Agricultural Economics Workshop, Iowa State University, April 20, 2011, Ames, IA.
5. "The Land-Use Change Effect of Ethanol Plants in Iowa: 1997-2009." American Economic Association (AEA) Annual Meeting, January 7-9, 2011, Denver, CO.
4. "The Land-Use Change Effect of Ethanol Plants in Iowa: 1997-2009." Global Land Project Open Science Meeting, October 17-19, 2010, Arizona State University, Tempe, AZ.
3. "Does Waivability in Renewable Fuel Standard Matter for Investment in Cellulosic Biofuel Refineries?" (Poster Presentation) Agricultural & Applied Economics Association (AAEA) Annual Meeting, July 25-27, 2010, Denver, CO.
2. "To Learn or To Change: Optimal R&D Investments under Uncertainties and Purchased Learning in the Case of Climate Change." Tenth Annual Missouri Economics Conference, March 26-27, 2010, University of Missouri-Columbia and Research Division of Fed. Reserve Bank of St. Louis, Columbia, MO.
1. "Double Irreversibilities and the Development of Advanced Biofuels." Southern Economic Association 79th Annual Meetings, November 21-23, 2009, San Antonio, TX.

Presentations by Student Co-authors

12. Cornish, Brian. "Impacts of Small Refinery Exemption Waivers on Renewable Fuel Demand." Applied Microeconomics Seminar, Department of Economics, Auburn University, November 4, 2020, Auburn, AL.
11. Cornish, Brian. "Impact of changes in Title II of the 2018 Farm Bill on the Acreage and Environmental Benefits of Conservation Reserve Program." Co-authors: Ruiqing Miao and Madhu Khanna. Agricultural & Applied Economics Association (AAEA) Annual Meeting, August 10-11, 2020. Online virtual meeting.

10. Ghosh, Prasenjit. "The Effects of Federal Crop Insurance Program on Irrigation Water Use in the United States." (Poster Presentation) Co-authors: Ruiqing Miao and Emir Malikov. Agricultural & Applied Economics Association (AAEA) Annual Meeting, July 21-23, 2019, Atlanta, GA.
9. Cornish, Brian. "Determinants of Conservation Reserve Program Acreage Supply and Potential Effects of the 2018 Farm Bill." Co-author: Ruiqing Miao. The 34th Annual Career Fair and Training Conference, Minorities in Agriculture Natural Resources and Related Sciences (MANRRS), April 5th, 2019, Overland Park, KS.
8. Ghosh, Prasenjit. "The Effects of Federal Crop Insurance Program on Irrigation Water Use in the United States." Co-authors: Ruiqing Miao and Emir Malikov. Southern Agricultural Economics Association (SAEA) Annual Meetings, February 2-5, 2019, Birmingham, AL.
7. Anand, Mohit. "Contracting in the Presence of Insurance: The Case of Bioenergy Crop Production." Southern Agricultural Economics Association (SAEA) Annual Meetings, February 2-5, 2019, Birmingham, AL.
6. Brian Cornish. "Potential Effects of the 2018 Farm Bill on the Conservation Reserve Program." Southern Agricultural Economics Association (SAEA) Annual Meetings, February 2-5, 2019, Birmingham, AL.
5. Ghosh, Prasenjit. "The Effects of Federal Crop Insurance Program on Irrigation Water Use in the United States." Allied Social Science Associations (ASSA) Annual Meeting, January 4-6, 2019, Atlanta, GA.
4. Ghosh, Prasenjit. "Agricultural Irrigation's Responses to Federal Crop Insurance in the United States." Agricultural & Applied Economics Association (AAEA) Annual Meeting, August 5-7, 2018, Washington, D.C.
3. Anand, Mohit. "Adopting Energy Crops: Does Farmers' Attitude toward Loss Matter?" Co-authors: Ruiqing Miao and Madhu Khanna. Southern Agricultural Economics Association (SAEA) Annual Meetings, February 2-6, 2018, Jacksonville, Florida.
2. Anand, Mohit. "Adopting Energy Crops: Does Farmers' Attitude toward Loss Matter?" Co-authors: Ruiqing Miao and Madhu Khanna. Agricultural & Applied Economics Association (AAEA) Annual Meeting, July 30 - August 1, 2017, Chicago, IL.
1. Ghosh, Prasenjit. "Have They Gone with the Wind? Indirect Effects of Wind Turbines on Bird Abundance." Co-authors: Jian Rong, Ruiqing Miao, Madhu Khanna, and Weiwei Wang. Agricultural & Applied Economics Association (AAEA) Annual Meeting, July 30 - August 1, 2017, Chicago, IL.

Conferences/Workshops Attended without Making Presentations

36. University of California, Davis, Agricultural Economics Workshop “Conservation Priorities and Environmental Offsets: Markets for Florida Wetlands,” presented by Will Rafey. January 21, 2021 (scheduled).
35. The 2021 American Economic Association (AEA) Continuing Education Online Classes: Markets for Innovation: Market Failures and Public Policies. Lecturers: Kevin Bryan (U. of Toronto) and Heidi Williams (Stanford). January 6-7, 2021.
34. American Economic Association (AEA) 2021 Virtual Annual Meeting, January 3-5, 2021.
33. The 15th James S. Palmer Lecture in the School of Public Policy, University of Calgary. Speaker: Esther Duflo, MIT. Wednesday, December 16, 2020, 10:00 AM - 12:00 PM (MST). Online virtual lecture.
32. Hearing the Diverse Voices of AAEA webinar. Organized by the AAEA Mentoring Committee. Friday, December 11, 11:30 am - 1:00 pm (Central Time).
31. Beahrs ELP 20th Anniversary Webinar Series: The Biden-Harris Administration and the Future of the Global Environment. Organized by the Beahrs Environmental Leadership Program. Speaker: Max Auffhammer, UC Berkeley. Tuesday, December 1st 12:00 PM - 1:00 PM PST.
30. Federal Reserve Bank of Richmond Climate Change Workshop. Organized by Federal Reserve Bank of Richmond. November 19-20, 2020. Online virtual meeting.
29. Climate Adaptation Research Symposium: Measuring and Reducing Social Impacts. Organized by UCLA Luskin Center for Innovation. September 21, 2020. Online virtual meeting.
28. Online Summer Workshop in Environment, Energy, and Transportation (Economics) (OSWEET). Twice a month on a Friday, 1pm Pacific Time. Organized by Sarah Jacobson, Williams; Ed Rubin, U of Oregon; Catie Hausman, Michigan; Ariel Ortiz-Bobea, Cornell; Antonio Bento, USC; and Max Auffhammer, UC Berkeley. Online virtual meeting.
27. Integrated modeling of sustainable food, energy, and water systems from regional to global scales (AAEA Environmental mini-conference). August 19, 2020 12:30-3:45pm Central Time. Online virtual meeting.
26. Economic and Environmental Implications of Biofuels (2020 AAEA Organized Symposium). Aug 17, 2020 02:00 PM Central Time. Online virtual meeting.

25. The Econometric Society and Bocconi University Virtual World Congress. August 17-21, 2020. Online virtual meeting.
24. Agricultural & Applied Economics Association (AAEA) Annual Meeting. August 10-11, 2020. Online virtual meeting.
23. The 25th Annual Conference of the European Association of Environmental and Resource Economists. Online via Zoom. June 23 – July 3, 2020.
22. Advancing Digital Agriculture and Conservation: A Virtual, Multi-Day Policy Workshop (<https://www.advancingdigitalagandconservation.com/>). Organized by Farm Foundation, the Cornell University Initiative for Digital Agriculture (CIDA), the Center for the Economics of Sustainability at the University of Illinois, and the University of Illinois Center for Digital Agriculture (CDA). Online via Zoom. May 20, May 27, May 29 & June 3, 2020.
21. Online Agricultural and Resource Economics Seminar. Organized by Dr. Marc Bellemare and Dr. Jeffrey Bloem (link: <https://sites.google.com/view/oares/home>). Online via Zoom. May–December, 2020.
20. Rapid Response Webinar for COVID-19: Integrated Economic Analysis Needed to Advance Short Term Decision-Making in the Novel Coronavirus Pandemic. Organized by Eli Fenichel, Cathy Kling, and J Shogren. Online via Zoom. April 7, 2020, 1-2:30 EST.
19. American Economic Association (AEA) 2020 Annual Meeting, January 3-5, 2020, San Diego, CA.
18. Farmdoc webinar “Is farmdoc the Future of Agricultural Extension?” conducted by College of Agricultural, Consumer, and Environmental Sciences, University of Illinois at Urbana-Champaign, Tuesday, Sep 10, 2019 12:00 PM - 1:00 PM CDT.
17. Alabama Agribusiness Council 2019 Annual Meeting, June 23-25, 2019, Perdido Beach Resort, Orange Beach, AL.
16. American Economic Association (AEA) 2019 Annual Meeting, January 4-6, 2019, Atlanta, GA.
15. 2018 Commodity Producers Conference and Expo, August 2-5, Montgomery, AL.
14. Alabama Agribusiness Council 2018 Annual Meeting, June 24-26, 2018, Perdido Beach Resort, Orange Beach, AL.
13. 2018 Global Change and Food-Energy-Water Symposium, February 9, 2018, Auburn University, Auburn, AL.

12. Alabama Agribusiness Council 2017 Annual Meeting, June 25-27, 2017, Perdido Beach Resort, Orange Beach, AL.
11. 2017 Alabama Stormwater Forum, May 11-12, 2017, Auburn University, Auburn, AL.
10. Alabama Agribusiness Council 2016 Annual Meeting, June 26-28, 2016, Orange Beach, AL.
9. American Economic Association (AEA) 2015 Annual Meeting, January 3-5, 2015, Boston, MA.
8. Heartland Environmental and Resource Economics Conference, November 1-2, 2014, Urbana, IL.
7. iSEE Congress 2014 – Feeding 9 Billion, September 30 – October 2, 2014, University of Illinois at Urbana-Champaign, Urbana, IL.
6. American Economic Association (AEA) 2014 Annual Meeting, January 3-5, 2014, Philadelphia, PA.
5. Heartland Environmental and Resource Economics Conference, November 2-3, 2013, Urbana, IL.
4. Heartland Environmental and Resource Economics Conference, November 10, 2012, Urbana, IL.
3. American Economic Association (AEA) 2012 Annual Meeting, January 6-8, 2012, Chicago, IL.
2. American Economic Association (AEA) 2008 Annual Meeting, January 4-6, 2008, New Orleans, LA.
1. American Economic Association (AEA) 2007 Annual Meeting, January 5-7, 2007, Chicago, IL.

Teaching

Auburn University (student evaluation score in the brackets).

- | | |
|-------------|---|
| Spring 2021 | Independent Study with Directed Readings (AGEC 4960) |
| Fall 2020 | Food and Agricultural Policy (AGEC 8090, PhD level), online [5.6/6] |
| Fall 2020 | Computer Applications in Agricultural Economics (AGEC 3100), online [5.2/6] |
| Spring 2020 | Guest lecture for Mineral Resources: Processing and Availability (MATL 2230), February 13, 2020 |
| Fall 2019 | Production Economics (I) (AGEC 7080, PhD level) [5.3/6] |

Fall 2019	Computer Applications in Agricultural Economics (AGEC 3100) [5.2/6]
Spring 2019	Food and Agricultural Policy (AGEC 8090, PhD level) [6/6]
Fall 2018	Computer Applications in Agricultural Economics (AGEC 3100) [5.3/6]
Fall 2018	Guest lecture for Mineral Resources: Processing and Availability (MATL 2230), September 27, 2018
Fall 2018	Guest lecture for Food, Agriculture, and Society (RSOC 3190), October 8, 2018
Fall 2017	Computer Applications in Agricultural Economics (AGEC 3100) [4.9/6]
Fall 2017	Independent Study with Directed Readings (AGEC 4960)
Fall 2017	Food and Agricultural Policy (AGEC 8090, PhD level) [5.7/6]
Fall 2016	Computer Applications in Agricultural Economics (AGEC 3100) [5.1/6]
Spring 2016	Computer Applications in Agricultural Economics (AGEC 3100) [4.8/6]

Iowa State University

Summer, 2010	Instructor, <i>Environment, Humans, and Economics</i> , Precollegiate Programs for Talented and Gifted
Summer, 2009	Instructor, <i>Principles of Microeconomics</i> , Department of Economics, Student evaluation score: 4.1/5
Summer, 2009	Instructor, <i>Game Theory</i> , Precollegiate Programs for Talented and Gifted
08/2006 ~ 12/2010	Teaching Assistant for: <i>Principles of Microeconomics, Principles of Macroeconomics, Intermediate Microeconomics, Introduction to Agricultural Markets, Applied Economics Optimizations, Macroeconomic Theory (graduate level)</i>

Fudan University

02/2006 - 06/2006	Instructor, <i>International Economic Law</i>
09/2005 - 01/2006	Instructor, <i>Economic Law</i>
02/2005 - 06/2005	Instructor, <i>International Economic Law</i>
11/2005 - 01/2006	Head Teaching Assistant for: <i>Microeconomics (PhD level)</i>
09/2005 - 10/2005	Teaching Assistant for: <i>Contract Theory (Master's level)</i>

University of Shanghai for Science and Technology

09/2004 - 01/2005	Instructor, <i>Introduction to World Economy</i>
02/2003 - 06/2003	Instructor, <i>Principles of Insurance Science</i>

Other Institutions

09/2004 - 01/2005	Instructor, <i>WTO: An Overview</i> , Putuo TV University of Shanghai, Shanghai, China
-------------------	--

Research Assistant Experience

Iowa State University

01/2011 - 05/2011	Research Assistant for Professor David A. Hennessy, Project: " <i>Land Use Consequences of Crop Insurance Subsidies.</i> "
05/2010 - 12/2010	Research Assistant for Professor David A. Hennessy,

- Project: “*Economic Value of Information: Wheat and Barley Protein Measurement.*”
- 07/2008 - 08/2009 Research Assistant for Professor Bruce A. Babcock,
Project: “*Reducing the Greenhouse Gas Emissions Associated with Indirect Land Use Changes through Higher Crop Yields, Policy Changes and On-Farm Greenhouse Gas Reduction Strategies.*”
- Fudan University**
- 09/2005 - 01/2006 Research Assistant for Professor Zhigang Yuan,
Project: “*The Economic Growth of China: Institution, Structure and Welfare*”
- 06/2005 - 09/2005 Research Assistant for Employment and Social Security Research Center (ESSRC), Fudan University.
Project: “*Urbanization, Land Exchange, and Social Security*”
- 12/2004 - 01/2005 Research Assistant for Employment and Social Security Research Center (ESSRC), Fudan University.
Project: “*the Study of Immigrant Worker Policy of Shanghai During Its 11th Five-Year Plan*”

Certificates

Graduate Student Teaching Certificate	Fall 2010
Preparing Future Faculty Scholar	Spring 2010
Preparing Future Faculty Fellow	Spring 2010
Preparing Future Faculty Associate	Spring 2009

Awards, Honors, Fellowships, and Mini-grants

2020-2023	Associate Editor, <i>American Journal of Agricultural Economics</i>
2020	Outstanding Publication Award (High Scientific Impact), College of Agriculture, Auburn University.
2019	Emerging Scholar Award, Southern Agricultural Economics Association.
2017	Dean’s Grantsmanship Award, Auburn University College of Agriculture.
2017	Multistate Travel Grant Program at Auburn University, \$750 for SCC-76 2017 Annual Meeting in Pensacola Beach, FL.
2016	Biggio Center for the Enhancement of Learning and Teaching, \$5,000 for redesigning course AGEC 3100 (Computer Applications in Agricultural Economics), Auburn University.
2016	Association of Environmental and Resource Economists (AERE) 5 th Annual Summer Conference, Sponsored session travel stipend, \$1,300.83.
2015	The 15th Occasional Workshop in Environmental and Resource Economics Travel Stipend Award, \$982.2, U. of California, Santa Barbara.
2014	Energy Biosciences Institute Travel Award, \$1,000, U. of Illinois.
2007 - 2011	Professional Advancement Grant, six times, Iowa State University
2010	Graduate and Professional Student Senate Peer Research Award, Iowa State University
2010	Travel Grant, The Global Land Project of the International Geosphere Biosphere Programme
2010	Graduate Teaching Excellence Award, Iowa State University

Curriculum Vitae

Ruiqing Miao

- 2010 Graduate and Professional Student Senate Peer Teaching Award, Iowa State University
- 2004 - 2006 Graduate Fellowship, Fudan University, China
- 1997 - 2006 Zhang Wang Zhuang Scholarship, four times, RMB29,000 in total, Linyi, China
- 2001 - 2004 Graduate Fellowship, University of Shanghai for Science and Technology, China

Human Resource Service Training History

- 07/2020 Deep Dives into the Four Instructional Modalities. Biggio Center for the Enhancement of Teaching & Learning, Auburn University, Auburn, AL.
- 07/2020 Virtual Workshop on Best Practices for Grant and Contract Processing. College of Agriculture, Auburn University, Auburn, AL.
- 09/2019 Search Committee Online Training, Auburn University, Auburn, AL.
- 04/2019 Farming Basics. Online course offered by Alabama Cooperative Extension System, Auburn University, Auburn, AL.
- 02/2019 Human Resource Development Training Course: Emotional Intelligence. February 6, 2019. Auburn University.
- 06/2017 NSF Grantsmanship Workshop. June 9, 2017, Auburn, AL.
- 12/2016 The 2016 Alabama Corn and Wheat Short Course (offered by the Alabama Cooperative Extension System). December 12-13, 2016, Auburn, AL.
- 5-6/2016 Summer Course (Re)Design Seminar (offered by the Biggio Center for the Enhancement of Learning and Teaching at Auburn U), Auburn, AL.

Courses offered by the Office of Learning and Development at Iowa State University:

- 10/2007 Graduate Student Teaching and Learning Circle: *McKeachie's Teaching Tips*
- 9-10/2008 Graduate Student Teaching and Learning Circle: *A Whack on the Side of the Head*
- 1-2/2009 Graduate Student Teaching and Learning Circle: *Generation Me*
- 02/18/2009 Engaging Students in the Classroom Panel
- 03/08/2010 Morrison Grant Writing workshop: Write Winning Grants
- 03/09/2010 Morrison Grant Writing workshop: Write Winning Revisions

Referee Service

Agricultural Economics

Agricultural and Resource Economics Review

Agricultural Finance Review

Agronomy

American Journal of Agricultural Economics

Applied Economic Perspectives and Policy

Canadian Journal of Agricultural Economics

Climate Change Economics

China Agricultural Economic Review

Energy Policy

Environmental Research Letters

European Review of Agricultural Economics

Food Policy

Global Environmental Change
J. of Agricultural Economics
J. of Agricultural and Applied Economics
J. of Agricultural and Resource Economics
J. of the Association of Environmental and Resource Economists
J. of the Royal Statistical Society
Land Economics
Land Use Policy
Natural Resource Modeling
PLOS One
Q Open
Resource and Energy Economics
The Energy Journal
AAEA annual meeting 2014-2019, 2021 (selected papers)

Review Panels

7. Peer Review Panel for proposals submitted to the 2020 Agricultural and Food Research Initiative (AFRI) Competitive Grants Program — Agriculture Economics and Rural Communities (AERC): Environmental and Natural Resource Economics Program. USDA National Institute of Food and Agriculture (NIFA). July 7-8, 2020.
6. Expert Reviewer for the Second Order Draft (SOD) of the Working Group I (WGI) contribution to the Sixth Assessment Report (AR6) of Intergovernmental Panel on Climate Change (IPCC). March-April, 2020.
5. Peer Review Panel for the 2019-2020 Intramural Grants Program (IGP) at Auburn University. Spring semester, 2020.
4. Expert Reviewer for the First Order Draft (FOD) of the Working Group I (WGI) contribution to the Sixth Assessment Report (AR6) of Intergovernmental Panel on Climate Change (IPCC). May-June, 2019.
3. Peer Review Panel for proposals submitted to the 2018 USDA National Institute of Food and Agriculture (NIFA) programs: Environment and Natural Resource Economics (A1651), Center for Behavioral and Experimental Economics for Agri-Environmental and Risk Management Policy Research (A1655), and Valuing Environmental Benefits from Natural Resource Conservation Programs (A1654). November 13-15, 2018.
2. Peer Review Panel for the 2018 Alabama Agricultural Experiment Station (AAES) Production Agriculture Research Funding Program, College of Agriculture, Auburn University. April 18, 2018.
1. Peer Review Panel for the FY 2016 National Needs Graduate and Postgraduate Fellowship Grants Program (NNF), the National Institute of Food and Agriculture (NIFA), USDA. 2017. February 14-16, 2017.

Graduate Student Advising

 PhD students on whose committees I served as a chair or co-chair (Auburn University):

Brian Cornish (ongoing, chair)
 Prasenjit Ghosh (ongoing, co-chair with Henry Kinnucan)
 Mohit Anand (2018, co-chair with Patricia Duffy)
 first placement: faculty member and division chair, Division of Business and Accounting, Miles College, AL, USA.

 Master's students on whose committees I served as a Chair (Auburn University):

George Richburg (ongoing), Agricultural Economics and Rural Sociology
 Hayes Grogan (2020), Agricultural Economics and Rural Sociology
 Brian Cornish (2019), Agricultural Economics and Rural Sociology
 first placement: PhD program in agricultural economics at Auburn University

PhD students on whose committees I served as a committee member:

Auburn University

Yuxi Luo (2016)	Agricultural Economics and Rural Sociology first placement: Assistant Professor, Guangxi Normal University, Guilin, China; and Institute for Southwestern City and Regional Development, China
Togo Traore (2016)	Agricultural Economics and Rural Sociology first placement: Model Validation Analyst, Freddie Mac in Fairfax, VA, USA
Meijuan Wang (2018)	Agricultural Economics and Rural Sociology first placement: Research Management Office, Hebei Normal University of Science and Technology, Qinhuangdao, Hebei, China
Ping Wang (2018)	Agricultural Economics and Rural Sociology first placement: Assistant Professor, Zhongnan University of Economics and Law, Wuhan, China
Suzan Odabasi (2019)	Agricultural Economics and Rural Sociology first placement: Assistant Professor in Economics, Usak University, Turkey
Matthew Muntifering (2020)	Agricultural Economics and Rural Sociology
Charles Karau Machatha (ongoing)	Agricultural Economics and Rural Sociology
Jingfang Zhang (ongoing)	Agricultural Economics and Rural Sociology
Yousef Alkilany (ongoing)	Agricultural Economics and Rural Sociology
Nisha Sehrawat (ongoing)	Agricultural Economics and Rural Sociology

University of Illinois at Urbana-Champaign

Yijia Li (ongoing)	Department of Agricultural and Consumer Economics first placement: Assistant Professor, School of Management and Economics, Beijing Institute of Technology, China
--------------------	---

 PhD students on whose committees I served as a university reader (Auburn University):

-
- Jie Zhang (2020) Department of Economics
dissertation: Three Essays on Economics of the Parliaments
first placement: Assistant Professor (tenure-track), Center for Economics, Finance
and Management Studies (CEFMS) at Hunan University, China
- Yecheng Xu (2019) School of Forestry and Wildlife Sciences
dissertation: The Population, Livestock, and Cropland in Changing Society and
Climate in Mongolia
first placement: Assistant Professor, Department of Economics, Zhejiang University
of Finance and Economics, Hangzhou, China.
- Jagdish Poudel (2017) School of Forestry and Wildlife Sciences
first placement: Forest Economist Specialist, Michigan Department of Natural
Resources-Forest Resource Division, Lansing, MI, USA
-

Master's students on whose committees I served as a committee member (Auburn
University):

- Taylor Schillerberg (2019) Crop, Soil, and Environmental Sciences
first placement: PhD program in Crop, Soil, and Environmental Sciences,
Auburn University
- Taylor Johnson (2018) Agricultural Economics and Rural Sociology
first placement: Associate Bank Examiner, Farm Credit Administration
(FCA), McLean, VA, USA

PhD students for whom I served as an intake advisor

- Derick Adu (Spring 2020) Agricultural Economics and Rural Sociology

Undergraduate Student Advising

Undergraduate Student Research:

- Roshell Rosales Aguilar. Summer 2020 – Spring 2021. Project “Food Waste and Food
Loss: Causes and Remedies.” Undergraduate Research Fellow, Auburn University.
- Seth Ingram. Fall 2020. Project “Impact of the China-US Trade War on the Alabama
Soybean Industry.” Undergraduate Research Fellow, Auburn University.
- Nathan Scarff. Summer 2017 to December 2017. Project “Production Risk of Alabama
Agriculture: Its Determinants and the Effects of Risk Management Tools on Farmers’
Production Efficiency and Welfare.”
First placement: Investment Specialist, Merrill Edge, Bank of America, Baltimore,
MD, USA.
- Carter Weis. Spring 2016 to Summer 2017, with Norbert Wilson. Project “Food Waste:
Consumer Response to Information, Technology, and Risk.”
First placement: Master of Science Program, Charles H. Dyson School of Applied
Economics and Management, Cornell University.

Undergraduate Academic Advisor:

Fall 2015 – Spring 2016 Advise on average 8 undergraduate students on courses and provide general guidance.

Teaching Advising

Igbekele Amos Ajibefun. Spring 2020. Computer Applications in Agricultural Economics (AGEC 3100). Auburn University.

Brian Cornish. Spring 2019. Computer Applications in Agricultural Economics (AGEC 3100). Auburn University.

Ly Nguyen. Spring 2018. Computer Applications in Agricultural Economics (AGEC 3100). Auburn University.

Departmental Service

Auburn University

Spring 2021-Present	Chair, Graduate Program Committee
Spring 2021-Present	Graduate Program Officer, PhD program
Fall 2020-Present	Associate professor member, Promotion and Tenure Committee
Fall 2020-Present	Member, PhD Research Paper Committee
Spring 2020-Present	Member, Assessment Team
Spring 2020	Peer Teaching Evaluation for John Ng'ombe (AGEC8080 Production Economics II)
Spring 2020	Proposal reviewer for Dr. Joel Cuffey's Hatch Project "Food marketing in Alabama and the Southeast"
Spring 2020	Department Faculty Meeting Secretary
Fall 2019	Department Faculty Meeting Secretary Substitute
2020	MS Program Graduate Program Officer
Fall 2019 – Spring 2020	Member, Faculty search committee (ALFA Eminent Scholar position)
Fall 2019	Chair, Faculty search committee (agribusiness/experimental economics position)
Fall 2018 – Spring 2019	Member, Faculty search committee (ALFA Eminent Scholar position)
Spring and Fall 2017	Member, Faculty search committee (ALFA Eminent Scholar position)
Fall 2015 – Present	Member, Undergraduate curriculum/teaching committee
Fall 2015 – Present	Member, Scholarship committee
Spring and Fall 2016	Member, Faculty search committee (Assistant professor/Extension Risk Management position)
Spring and Fall 2016	Member, Fire escape project review committee
Spring 2016	Graduate student brown bag seminar coordinator (with Henry Kinnucan)
Fall 2015 – Fall 2016	Co-advisor, AgriBusiness Club

Iowa State University

08/2009 - 08/2012	Economics Graduate Student Association Mentor Program
Spring 2010	Senator of Graduate and Professional Student Senate

College-level Service

Auburn University

2017-2019 Faculty representative, E.T. York Distinguished Lecture Series Committee, College of Agriculture

University-level Service

Auburn University

2020-2022 Committee member, Auburn University (AU) – HuaZhong Agricultural University (HZAU) Research and Scholarship Committee, AU-HZAU Partnership for International Research and Education.

Service in Profession

2020-2023 Associate Editor, *American Journal of Agricultural Economics*.

2020-2022 PhD student job market paper evaluation committee member, Southern Agricultural Economics Association.

2018-2019 Topic leader for topic area “Resource and Environmental Policy Analysis” of AAEA annual meetings.

2019 Judge for student oral and poster competition at the 77th Professional Agricultural Workers Conference (PAWC), Tuskegee University’s Chapter of Gamma Sigma Delta (GSD). December 9.

2017 Moderator, the session of “Resource and Ecosystem Studies: Renewable Resources” at Association of Environmental and Resource Economists 6th Annual Summer Conference, May 31 – June 2, 2017, Pittsburgh, PA.

Memberships

Agricultural & Applied Economics Association (AAEA)

American Economic Association (AEA)

American Risk and Insurance Association (ARIA)

Association of Environmental and Resource Economists (AERE)

Econometric Society (ES)

Economics and Management of Risks in Agriculture and Natural Resources (SCC-76)

Southern Agricultural Economics Association (SAEA)

(Updated January 18, 2021)