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Education

- Ph.D. Economics, Iowa State University, 2007- 2013
Dissertation Title: Three Essays on Environmental Economics and Energy Economics
- M.S. Human Geography, Chinese Academy of Sciences, China 2005
- B.S. Atmospheric Science, Peking University, China 2002
- B.A. Economics, Peking University, China 2002

Research Interests

Agricultural Economics, Applied Microeconometrics, Energy Economics, Environmental and Resource Economics, Non-market Valuation

Profession

- Research Scientist III, Center for Agricultural and Rural Development at Iowa State University, Jul, 2021 - Present
- Research Scientist II, Center for Agricultural and Rural Development at Iowa State University, Sep, 2020 - Jun, 2021
- Assistant Scientist, Center for Agricultural and Rural Development at Iowa State University, May, 2016 - Aug, 2020
- Post-Doc Associate, Center for Agricultural and Rural Development at Iowa State University, Sep, 2013 - Apr, 2016
- Pre-Doc Associate, Center for Agricultural and Rural Development at Iowa State University, Aug, 2012 - Aug, 2013
- Research Associate (Supervised under Prof. Jintao Xu), World Bank DC, Oct, 2011 - Jul, 2012
- Research Assistant in College of Environmental Sciences, Peking University, China, Jun, 2006 - Jul, 2007
- Research Assistant in Center of Chinese Agricultural Policy, Chinese Academy of Sciences, China, Jul, 2005 - May, 2006

Journal Articles

English

1. "Uncovering disparities in water-based outdoor recreation using cell phone mobility data." with (Wan, Xibo, Wendong Zhang, and Wenran Fan) Environmental Research Letters (2024).
2. "Environmental Justice and the Clean Water Act: Implications for Economic Analyses of Clean Water Regulations." with (Andarge, Tihitina, Bonnie L. Keeler, David A. Keiser, and Conor McKenzie) Environmental and Energy Policy and the Economy 5, no. 1 (2024): 70-126.

3. "The economics of nutrient pollution from agriculture." with (Del Rossi, Gemma, Mohammad Mainul Hoque, and Catherine L. Kling), *Annual Review of Resource Economics* 15, no. 1 (2023): 105-130.
4. Agricultural Innovation and Adaptation to Climate Change: Insights from Genetically Engineered Maize. with (Seungki Lee, and GianCarlo Moschini), *Journal of the Agricultural and Applied Economics Association* 2022 1(2), 165-179
5. Revenue and Distributional Consequences of Alternative Outdoor Recreation Pricing Mechanisms: Evidence from a Micropanel Data Set. (with David A. Keiser, Catherine L. Kling, and Daniel J. Phaneuf) *Land Economics* 2022 98(3), pp.478-494.
6. The roots of agricultural innovation: Patent evidence of knowledge spillovers. In *Economics of Research and Innovation in Agriculture*. University of Chicago Press. (with Clancy, M., Heisey, P., and Moschini, G., 2020)
7. Temporal Reliability of Welfare Estimates from Revealed Preferences. (with David A. Keiser and Catherine L. Kling) Accepted at *Journal of the Association of Environmental and Resource Economists*. February 2020.
8. Modeling Recreation when Access Points are Unknown. (with Joseph Herriges and Catherine L. Kling), *American Journal of Agricultural Economics* 2016 98(3):860-880
9. Post-reform Forestland Markets in China (with Jintao Xu and Juha Siikamaki) *Land Economics* 2015 91(2), pp. 211-234
10. Effective Pollution Control Policy for China. (with Jintao Xu and William F. Hyde) *Journal of Productivity Analysis* 2010 33(1), pp 47-66

Chinese

1. Environmental Policies and Firms' Technical Efficiency: Exemplified with Paper Mills (with Jintao Xu) *Journal of Beijing Forestry University (Social Sciences)*, 2006 5(2), pp.78-82
2. Empirical Study of Reform and Development in the Key State-owned Forest Area. (with Xuemei Jiang and Jintao Xu) *Forestry Economics* 2006 1 pp. 10-15
3. Residential Water Demand Analysis in North China. (with Xiaoguang Chen and Jintao Xu) *Journal of Natural Resources* 2007 22(2), pp. 275-280
4. Villagers' Preference, Election Quality and Rural Electoral System in China - An Alternative Approach of Measuring Election Quality and it's Application. (with Zhigang Xu, Ran Tao and Mingxing Liu) *China Agricultural Economic Review* 2007 5(1), pp. 14-27

Working Papers

1. Misclassification Errors in Remote Sensing Data and Land Use Modeling, 2019
2. Inter-temporal Benefit Transfer with Revealed Preference Data: Evidence from a Five Year Panel of Lake Recreation Usage. (with David Keiser and Catherine Kling) 2017
3. Water-based Recreation and Water Quality Indices: A Revealed Preference Approach. (with David A. Keiser) 2016
4. Estimating Adoption of Cover Crops Using Preferences Revealed by a Dynamic Crop Choice Model. (with Sergey Rabotyagov and Adriana Valcu-Lisman) 2015
5. Crop Choice, Climate Change and Rotational Effects: A Dynamic Model of Land Use in Iowa Recent Years. (with Sergey Rabotyagov) 2014

6. Modeling Recreation with Partial Trip Information (with Joseph Herriges and Catherine L. Kling) 2013

Other Publication

1. "Linking Water Quality Improvement with Economic Benefits to the Iowa Population." with (Gassman, Phil, and Tássia Mattos Brighenti) *Agricultural Policy Review, Fall 2023* Center for Agricultural and Rural Development (CARD) at Iowa State University.
2. "New survey targeting underrepresented Iowans reveals limited usage of lake resources." with (Wenran Fan, and Wendong Zhang) *Agricultural Policy Review, Spring 2023* Center for Agricultural and Rural Development (CARD) at Iowa State University.
3. A Report to the Iowa Department of Natural Resources-The Iowa Lakes Valuation Project 2019: Summary and Findings.(with Xibo Wand and Wendong Zhang) *Agricultural Policy Review, Winter 2021* Center for Agricultural and Rural Development (CARD) at Iowa State University.
4. Corn Yields and Climate Change: The Innovation Challenge. (with GianCarlo Moschini, and Seungki Lee) *Agricultural Policy Review, Winter 2021* Center for Agricultural and Rural Development, Iowa State University.
5. The United States' Competitive Positions in Beef, Corn, Pork, Soy, and Wheat Exports: 1980 - 2019. (with Chen,Chen-Ti and John Crespi) *Agricultural Policy Review, Winter 2021* Center for Agricultural and Rural Development, Iowa State University
6. World's Largest Pork Producer in Crisis: China's African Swine Fever Outbreak. (with Yongtong Shao, Minghao Li, Wendong Zhang, and Dermot Hayes) *Agricultural Policy Review, Fall 2018* Center for Agricultural and Rural Development, Iowa State University.
7. Economic benefits of nitrogen reductions in Iowa. (with Tang, Chuan, Gabriel E. Lade, David Keiser, Catherine Kling, and Yau-Huo Shr) 2018
8. Understanding the Usage Patterns and Most Desirable Characteristics of Iowa's Rivers and Streams. (Project Report)
9. Agricultural Land Use Change in the Corn Belt. (with Jimena Gonzalez-Ramirez) *CARD Agricultural Policy Review 2015* Vol. 2015: Iss. 2, Article 1.
10. Degraded water quality in lakes: consequences for use. (with HoCheol, Jeon and Catherine L. Kling) *CARD Agricultural Policy Review* Fall 2015 Vol.2015: Iss. 10-11.

Conference Presentation

1. 2024 AERE Annual Meeting at Washington DC. "Local Economic Condition and Demand for Recreation" with Mainul Hoque (Presentation)
2. 2023 AAEA Annual Meeting at Washington DC. "The Value of Clean Water in Rivers and Streams: Evidence from Water-Adjacent Property Values " with (Mainul Hoque)-Presentation
3. 2023 AAEA Annual Meeting at Washington DC. "An Integrated Assessment Framework to Evaluate Conservation Practices' Environmental and Economic Benefits: A Case for Three Central Iowa Watersheds" with (Tassia Mattos Brighenti and Philip Gassman) - Poster
4. 2020 AAEA Annual Meeting " What A Deep Learning Approach Say about Future US Soybean Yields"(Poster)
5. 2019 AAEA Annual Meeting at Atlanta, GA; "Misclassification Errors in Remote Sensing Data and Land Use Modeling"

6. 2017 AERE Annual Meeting at Pittsburgh, PA; "The Use of Social Media Data for Nonmarket Valuation"
7. 2017 AAEA Annual Meeting at Chicago, IL; "Inter-temporal Benefit Transfer with Revealed Preference Data: Evidence from a Five Year Panel of Lake Recreational Usage"
8. 2016 AERE Annual Meeting at Breckenridge, CO; "Model Selection in Recreation Models"
9. 2015 AAEA Annual Meeting at San Francisco, CA; "Estimating Adoption of Cover Crops Using Preferences Revealed by a Dynamic Crop Choice Model"
10. 2015 AERE Annual Meeting at San Diego, CA; "Crop Choice, Rotational Effects and Water Quality Consequence in Up-Mississippi River Basin: Connecting SWAT Model with Dynamic Land Use Model."(Poster)
11. 2014 AAEA Annual Meeting at Minneapolis, MN; "Crop Choice, Climate Change and Rotational Effects: A Dynamic Model of Land Use in Iowa Recent Years.", "Crop Choice, Rotational Effects and Water Quality Consequence in Up-Mississippi River Basin: Connecting SWAT Model with Dynamic Land Use Model."(Poster)
12. 2011 1st AERE Annual Meeting at Seattle, Washington. "Modeling Recreation with Partial trip information"
13. 2011 W2133 Annual Meeting at Albuquerque, NM; 2011 MEA Annual Meeting at St.Louis, Missouri. "Modeling Recreation when Access Points are Unknown"

Grants

1. EPA STAR Program, Valuing Water Quality Improvements in Nationwide Ecosystems: Total Value based on the Biological Condition Gradient, 2022 - 2025, \$24,280 (co-PI, sub-awardee)
2. National Institute of Food and Agriculture, USDA, Measuring the Social Costs of Nutrient Pollution through Integrated Assessment Modeling, 2022 - 2025, \$35,000 (co-PI, sub-awardee)
3. Iowa Water Center and Iowa Nutrient Research Center, Environmental Justice for All: Nutrient Impacts on Lake-Based Recreation and Tourism by Rural and Socially Disadvantaged Iowans (co-PI/PI) 2021 - 2022, \$39,700
4. Iowa Department of Natural Resources, Economic Impact and Value of Preserving and Restoring Water Quality in Iowa's Lakes- A survey of lake usage for Iowa lakes and the economic impact for local communities (co-PI) 2019 - 2021, \$165,505

Data Visualization Work

1. Interactive Iowa County Map on Iowa Land Value Survey
Link: <http://www.card.iastate.edu/land-value/interactive-county-maps/>
2. Iowa Lake Survey 2014 Interactive Map
Link: http://www.card.iastate.edu/ag_policy_review/f15-lakes/
3. ARC/PLC Payments per Base Acre in Iowa
Link: <https://www.card.iastate.edu/tools/farm-bill/arc-plc/>
4. Iowa Cash Rents by Land Quality
Link: <https://www.card.iastate.edu/tools/ag-risk/cash-rental-rates/>
5. PSI-CARD Corn Yield Prediction Project
Link: <https://www.card.iastate.edu/tools/yield-prediction/>
6. CARD COVID-19 Pandemic Research and Resources (A subset of Graphics)
Link: <https://www.card.iastate.edu/covid-19/>
7. Historical Biofuel Operating Margins
Link: <https://www.card.iastate.edu/tools/operating-margins/>
8. Web portal for Iowa Lake Project
Link: <https://www.card.iastate.edu/lakes/>
9. Bivariate Choropleth US Map on Land Use and Nutrients Use
Link: <https://observablehq.com/@econvis/bivariate-choropleth-us-map-on-land-use-and-nutrients-use>

Software Skills

Statistical: Matlab, STATA, R, GAUSS
 Optimization: AMPL, GAMS
 Office: MS Office, Latex
 Other: ArcGIS, Javascript, D3js/Observablehq, Python, SQL

Languages

Chinese (native), English (fluent)