JINHUA ZHAO

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EDUCATION

Ph.D. Agricultural and Resource Economics, University of California at Berkeley, May, 1997

M.Sc. Agricultural Economics, University of Guelph, Canada, 1992, Distinguished Thesis

B.Eng. Industrial Engineering, University of Science and Technology Beijing, People's Republic of China, *Distinguished Graduate*

PROFESSIONAL EXPERIENCE

Professor, Department of Economics, Department of Agricultural, Food and Resource Economics, Michigan State University, 2010 – present

Director, Environmental Science and Policy Program, Michigan State University, 2010 – present

Associate Professor, Department of Economics, Department of Agriculture, Food and Resource Economics, Michigan State University, 2008 – 2010

Special Term Professor, School of Economics, Shanghai University of Finance and Economics, Shanghai, China, 2008 – present

Special Term Professor, Southwest University of Finance and Economics, Chengdu, China, 2006 – 2008

Associate Professor, Department of Economics, Iowa State University, 2003 – 2008 Assistant Professor, Department of Economics, Iowa State University, 1997 – 2003

TEACHING EXPERIENCE

Economics of Climate Change, Topics of Advanced Microeconomics, Undergraduate Environmental and Resource Economics, Graduate Environmental Economics, Graduate Resource Economics, Graduate Microeconomics I (PhD core), Graduate Microeconomics II (PhD core), Mathematical Applications in Economics, Experiments with Microeconomic Principles

RESEARCH FIELDS

Applied Microeconomics, Natural Resource and Environmental Economics, Energy, Environment in China, Information, Real Options, Technology Adoption, International Trade and the Environment

AWARDS AND PROFESSIONAL SERVICE

Member, US EPA Science Advisory Board, Environmental Economics Advisory Committee, 2009 – present

- Member, US EPA Board of Scientific Counselors, Air, Climate and Energy Subcommittee, 2015 2017
- Editorial Committee, Annual Review of Resource Economics, 2012 present
- Editorial Council, Frontier of Economics in China, 2011 present
- Guest editor, Special Issue on Environmental Economics and Policy, *Frontier of Economics in China*, 9(1), 2014.
- Co-editor, Journal of Environmental Economics and Management, 2005 2007
- Editorial Council, *Journal of Environmental Economics and Management*, 2001 2004, 2007 2011
- Editorial Council, Review of Development Economics, 2000 2012
- Winner, Harvard Project on International Climate Agreements Research Paper Competition, "A Proposal for the Design of the Successor to the Kyoto Protocol," (with Larry Karp) 2008
- Outstanding Journal Article Award, Canadian Journal of Agricultural Economics, 2007, for "The Subsidy for Adopting Conservation Tillage: Estimation from Observed Behavior," (with Lyubov A. Kurkalova and Catherine L. Kling)
- Honorable mention, Land, Water and Environmental Economics (ENV) Section Outstanding Poster Award, *AAEA Annual Meetings 2017*, for "Farmer Decisions on Nitrogen Application: the Role of Learning and Messages," (with Qi Tian)
- Second Place Poster Award, *AAEA Annual Meetings 2007*, for "Measuring the Impact of Livestock Operations Using Hedonic Model: What Kind of Distances Matter?" (with Tao Ran and Huizhen Niu)
- College of Agriculture Team Award, ISU, 2001

STUDENT ADVISING

Served on over thirty PhD and over a dozen MSc committees; Chaired or co-chaired ten PhD and five MSc committees.

GRANTS

- USDA NIFA/NSF INFEWS/T1, (co-PI, with David Hyndman, Robert Anex, Bruno Basso, and Jonathan Winter), "Developing Pathways Toward Sustainable Irrigation across the United States Using Process-based Systems Models (SIRUS)," 2018-2023, \$2,473,000.
- National Natural Science Foundation of China, (co-PI, with Yazhen Gong, Ke Chen, and Shumin An), "Factors Affecting Urban Residents' Preventive Measures to Reduce Health Risks from Smog: Survey and Experimental Evidence," 2018-2021, 480,000CNY.
- NASA, (co-I, with Jiaguo Qi, Peilei Fan, Dave Hyndman, Dan Kramer, Bill McConnell, Joe Messina, Yadu Pokhrel, William Salas, Venkataramana Sridhar, and Nathan Torbick), "Quantifying Human and Climate Impacts on Wetland Ecosystems in the Lower Mekong River Basin," 2017-2020, \$2,173,112.
- USDA NIFA, (co-PI, with Nathan Hendricks and David Steward), "Mixed Approaches Towards Effective Collective Management of Groundwater Resources," 2017-2021, \$499,917.
- Environmental Protection Agency STAR, (co-PI, with Catherine Kling, David Keiser, Dan Phaneuf, Christian Vossler, and Jacques Finlay), "Valuing Water Quality Improvements in Midwestern Ecosystems," 2016-2019, \$800,000.

- USDA NIFA, (co-PI, with Bruno Basso, David Hyndman, Joyce Parker, Jeff Andresen, Phil Robertson, Anthony Kendall, and Jane Rice), "Developing and Promoting Water-, Nutrient-, and Climate-smart Technologies to Help Agricultural Systems Adapt to Climate and Societal Changes," 2015-2020, \$4,900,000.
- National Science Foundation CNH, (co-PI, with Diana Stuart, Bruno Basso, Sandra Marquart-Pyatt, and Phil Robertson), "A Social-Ecological Analysis of Nitrogen in Agricultural Systems of the Upper Midwest," 2013-2017, \$1,462.073.
- National Science Foundation IBSS, (co-PI, with Maria Lapinski and John Kerr), "The Influence of Short-Term Financial Incentives on Social Norms and Behaviors," 2013-2016, \$600,714.
- National Science Foundation WSC, (co-PI, with David Hyndman, Warren Wood, Stephen Gasteyer, Nathan Moore, Bruno Basso, and Anthony Kendall), "Toward Sustainability of the High Plains Aquifer Region: Coupled Landscape, Atmosphere, and Socioeconomic Systems (CLASS)," 2010-2016, \$1,224,356.
- Rackham Foundation, (co-PI, with Soren Anderson), "The Land-Use Impacts of U.S. Biofuels Policies: An Econometric Approach," 2010-2013, \$87,000.
- National Science Foundation CNH, (co-PI, with Julie Winkler, Suzanne Thornsbury, Pang-Ning Tan, Jeffrey Andresen, Roy Black, Scott Loveridge, Shiyuan Zhong, and Amy Iezzoni), "Towards an Integrated Framework for Climate Change Impact Assessments for International Market Systems with Long-term Investments," 2009-2013, \$1,499,763.
- Michigan Economic Development Corporation, "The Effects of Carbon Regulation on Industry Competitiveness," 2009-2010, \$18,540.
- Michigan Economic Development Corporation, "Carbon Footprints of Biofuels and Carbon Market," 2008-2010, \$94,734.
- Michigan Economic Development Corporation, (co-PI, with Thomas Dietz), "Network Events and Conference on Bioeconomy and Global Climate Change," 2008-2010, \$127,700.
- China National Social Science Foundation, (with Xingming Fang), "The Role of Energy and Energy Intensive Sectors in China's Balanced Growth," 2007-2009, 100,000RMB.
- ISU International Grant, (co-PI, with Joydeep Bhattacharya), "Development of a New Course on Chinese and Indian Economies," 2007, \$5,000.
- EPA National Center for Environmental Economics, (with Cathy Kling, Joseph Herriges, and Quinn Weninger), "Innovations in Academic Communication at the Heartland Environmental and Resource Economics Workshop," 2005-07, \$52,630.
- NSF/EPA, "Valuing Water Quality in Midwestern Lake Ecosystems: Temporal Stability and the Role of Information in Value Formation," (with Joe Herriges, Cathy Kling and John Downing), four years starting 2003, \$429,000.
- EPA/Kansas State University, "Consortium for Agricultural Soils Mitigation of Greenhouse Gases (CASMGS)," (with Cathy Kling, Michael Thompson, Tom Fenton, Mahdi Al-Kaisi and David Laird), two years starting 2002, \$1,136,890.
- USDA/ERS, "Environmental Challenges of Livestock Production," (with John Lawrence), one year starting 10/2002, \$20,000.
- USDA-NRICGP, "Information Exchange in Farmers' Adoption of Conservation Tillage Practices," (with Joe Herriges), two years starting 2000, \$89,000.

REFEREED PUBLICATIONS

- 1. Li, Haoyang and Jinhua Zhao, "Rebound Effects of New Irrigation Technologies: The Role of Water Rights," *American Journal of Agricultural Economics*, 2018 (forthcoming)
- 2. Lapinski, Maira K., Rain Wuyu Liu, John M. Kerr, Jinhua Zhao, and Tsering Bum, "Characterizing Interpersonal Influence for Grassland Conservation Behaviors in a Unique Population," *Environmental Communication*, 2018 (forthcoming)
- 3. Kerr, John M., Maria K. Lapinski, Maria K., Rain Wuyu Liu, and Jinhua Zhao, "Long-Term Effects of Payments for Environmental Services: Combining Insights from Communication and Economics," *Sustainability*, 2017, 9, 1627; doi:10.3390/su9091627
- 4. Reimer, Adam., Julie E. Doll, Bruno Basso, Sandra T. Marquart-Pyatt, G. Philip Robertson, Diana Stuart, and Jinhua Zhao, "Moving toward sustainable farming systems: Insights from private and public sector dialogues on nitrogen management," *Journal of Soil and Water Conservation*, 2017, 72(1), 5A-9A.
- 5. Lapinski, Maria K., John Kerr, Jinhua Zhao, and Robert Shupp, "Social Norms, Behavioral Payment Programs, and Cooperative Behaviors: Toward a Theory of Financial Incentives in Normative Systems," *Human Communication Research*, 2016, http://dx.doi.org/10.1111/hcre.12099
- 6. Ye, Guangliang and Jinhua Zhao, "Environmental Regulation in a Mixed Economy," *Environmental and Resource Economics*, 2016, 65, 273-295.
- 7. Kim, Younjun, Catherine L. Kling and Jinhua Zhao, "Understanding Behavioral Explanations of the WTP-WTA Divergence Through a Neoclassical Lens: Implications for Environmental Policy," *Annual Review of Resource Economics*, 2015, 7, 169-187.
- 8. Rausser, Gordon C., Leo K. Simon, and Jinhua Zhao, "Rational Exaggeration and Counter-Exaggeration in Information Aggregation Games," *Economic Theory*, 2015, 59(1), 109-146.
- 9. Wang, Min, Jinhua Zhao, and Joydeep Bhattacharya "Optimal Health and Environmental Policies in a Pollution-Growth Nexus," *Journal of Environmental Economics and Management*, 2015, 71, 160-179.
- 10. Stuart, Diana, Bruno Basso, Sandy Marquart-Pyatt, Adam P. Reimer, G. Philip Robertson, and Jinhua Zhao, "The Need for a Coupled Human and Natural Systems Understanding of Agricultural Nitrogen Loss," *BioScience*, 2015, 65(6), 571-578.
- 11. Fenichel, Eli and Jinhua Zhao, "Sustainability and Substitutability," *Bulletin of Mathematical Biology*, 2015, 77, 348-367.
- 12. Tan, Jijun and Jinhua Zhao, "The Value of Clean Air in China: Evidence from Beijing and Shanghai," *Frontiers of Economics in China*, 9(1), 2014, 109-137.
- 13. Wang, Min and Jinhua Zhao, "Monopoly Extraction of a Nonrenewable Resource Facing Capacity Constrained Renewable Competition," *Economics Letters*, September 2013, 120, 503-508.
- 14. Kling, Catherine, L., John List, and Jinhua Zhao, "The WTP/WTA Disparity: Have We Been Observing Dynamic Values But Interpreting Them as Static," *Economic Inquiry*, 59(1), January 2013, 909-921.
- 15. Kling, Catherine L. Daniel J. Phaneuf, and Jinhua Zhao, "From Exxon to BP: Has Some Number Become Better Than No Number?" *Journal of Economic Perspectives*, 26(4), 2012, 3-26.
- 16. Zilberman, David, Jinhua Zhao, and Amir Heiman "Adaptation versus Adoption: with Emphasis on Climate Change," *Annual Review of Resource Economics*, 4, 2012, 27-53.

- 17. Zhao, Jinhua, "Uncertainty and Hysteresis in Adapting to Climate Change," in Sarah C. Pryor eds., *Climate change in the Midwest: impacts, risks, vulnerability and adaptation*, Indiana University Press, Chapter 4, 2012
- 18. Dietz, Thomas and Jinhua Zhao, "Paths to Climate Cooperation," *Proceedings of the National Academy of Sciences*, 108(38), September 20, 2011, 15671-15672.
- 19. Song, Feng, Jinhua Zhao, and Scott Swinton "Switching to Perennial Energy Crops under Uncertainty and Costly Irreversibility," *American Journal of Agricultural Economics*, 93(3), 2011, 768-783.
- 20. Karp, Larry and Jinhua Zhao, "International Environmental Agreements Emissions Trade, Safety Valves and Escape Clauses," *Revue Economique*, 61, January 2010, 153-182
- 21. Zhao, Jinhua and Catherine L. Kling, "Welfare Measures When Consumers Can Learn: A Unifying Theory," *Economic Journal*, v 119 (540), October 2009, 1560-1585.
- 22. Karp, Larry and Jinhua Zhao, "A Proposal for the Design of the Successor to the Kyoto Protocol," (in Joseph E. Aldy and Robert N. Stavins eds., *Post-Kyoto International Climate Policy: Implementing Architectures for Agreement*, Chapter 17, Cambridge University Press, 2009.
- 23. Corrigan, Jay R., Catherine L. Kling, and Jinhua Zhao "Willingness to pay and the cost of commitment: An empirical specification and test," *Environmental and Resource Economics*, v 40, 2008, 285-298
- 24. Bose, Subir and Jinhua Zhao "Optimal Use of Correlated Information in Mechanism Design When Full Surplus Extraction May Be Impossible," *Journal of Economic Theory*, v 135, 2007, 357-381
- 25. Zhao, Jinhua, "The Role of Information in Technology Adoption under Poverty," Chapter 8, in Machiko Nissanke and Erik Thorbecke ed., *The Impact of Globalization on the World's Poor*, Palgrave Macmillan, 2007
- 26. Kurkalova, Lyubov A., Catherine L. Kling, and Jinhua Zhao, "Green Subsidies in Agriculture: Estimating the Adoption Costs of Conservation Tillage From Observed Behavior," *Canadian Journal of Agricultural Economics*, v 54, 2006, 247-267
- 27. Feng, Hongli and Jinhua Zhao, "Alternative Intertemporal Permit Trading Regimes with Stochastic Abatement Costs," *Resource and Energy Economics*, v 28, 2006, 24-40
- 28. Zhao, Jinhua and Catherine L. Kling, "Environmental Valuation Under Dynamic Consumer Behavior," Chapter 9, in R. Hoverson and D. Layton eds., *Explorations in Environmental and Natural Resource Economics: Essays in Honor of Gardner M. Brown, Jr.*, Edward Elgar, 2006
- 29. Kurkalova, Lyubov A., Catherine L. Kling, and Jinhua Zhao, "Value of agricultural non-point source pollution measurement technology: assessment from a policy perspective," *Applied Economics*, v 36, n 20, Nov. 2004, 2287-2298
- 30. Zhao, Jinhua and Catherine L. Kling, "Willingness-to-Pay, Compensating Variation, and the Cost of Commitment," *Economic Inquiry*, v 42, n 3, July 2004, 503-517
- 31. Kurkalova, Lyubov A., Catherine L. Kling, and Jinhua Zhao, "Alternative Green Payment Policies Under Heterogeneity When Multiple Benefits Matter," *Agricultural and Resource Economics Review*, v 33, n 1, April, 2004, 148-158
- 32. Kurkalova, Lyubov A., Catherine L. Kling, and Jinhua Zhao, "Multiple Benefits of Carbon-Friendly Agricultural Practices: Empirical Assessment of Conservation Tillage," *Environmental Management*, v 33, n 4, August 2004, 519-527
- 33. Karp, Larry and Jinhua Zhao, "The Dynamic Effects of Trade Liberalization and Policy Harmonization," Chapter 18, in E. Kwan Choi and James C. Hartigan eds., *Handbook of*

- International Trade, Vol II: Economic and Legal Analyses of Trade Policy and Institutions, Blackwell, 2004
- 34. Zhao, Jinhua, "Irreversible Abatement Investment under Cost Uncertainties: Tradable Emission Permits and Emissions Charges," *Journal of Public Economics*, v 87, December 2003, 2765-2789
- 35. Zhao, Jinhua and Catherine L. Kling, "Policy Persistence in Environmental Regulation," *Resource and Energy Economics*, v 25, 2003, 255-268
- 36. Mila, A.L., A.L. Carriquiry, J. Zhao, and X.B. Yang, "Impact of Management Practices on Regional Prevalence of Soybean Sclerotinia Stem Rot in the North-Central Region of the United States and on Farmers' Decisions Under Uncertainty," *Plant Disease*, v 87, n 9, 2003, 1048-1058
- 37. Karp, Larry, Jinhua Zhao, and Sandeep Sacheti, "The Long-run Effects of Environmental Reform in Open Economies," *Journal of Environmental Economics and Management*, v 45, n 2, March 2003, 246-264
- 38. Heiman, Amir, Bruce McWilliams, Jinhua Zhao, and David Zilberman "Valuation and management of money-back guarantee options," *Journal of Retailing*, v78, n2, Autumn 2002, 193-205
- 39. Feng, Hongli, Jinhua Zhao, and Catherine L. Kling, "The Time Path and Implementation of Carbon Sequestration," *American Journal of Agricultural Economics*, v 84, n 1, Feb 2002, 134-149
- 40. Zhao, Jinhua, "Uncertainty, Irreversibility and Water Project Assessment," *Water Resources Update*, Jan. 2002, issue 121, 51-57
- 41. Fisher, Anthony and Jinhua Zhao, "Notes on Irreversibility, Sustainability and the Limits to Growth," in Bengt Kriström, Partha Dasgupta, and Karl-Gustaf Löfgren ed., *Econmic Theory for the Environment: Essays in Honour of Karl-Goran Maler*, Edward Elgar, UK, 2002
- 42. Zhao, Jinhua and Catherine L. Kling, "A New Explanation for the WTP/WTA Disparity," *Economics Letters*, v73, 2001, 293-300
- 43. Karp, Larry, Sandeep Sacheti, and Jinhua Zhao, "Common Ground Between Free-Traders and Environmentalists," *International Economic Review*, v 42, n 3, August 2001, 617-647
- 44. Zhao, Jinhua and David Zilberman, "Fixed Costs, Efficient Resource Management and Conservation," *American Journal of Agricultural Economics*, v 83, n 4, Nov 2001, 942-957
- 45. Feng, Hongli, Catherine L. Kling, and Jinhua Zhao, "Towards Implementing Carbon Markets in Agriculture," *Choices*, 2nd Ouarter, 2001, 16-19
- 46. Zhao, Jinhua, "Trade and Environmental Distortions: Coordinated Intervention," *Environment and Development Economics*, v 5 (special issue on international trade and the environment), 2000, 361-375
- 47. Kling, Catherine L. and Jinhua Zhao, "On the Long-Run Efficiency of Auctioned vs. Free Permits," *Economics Letters*, v 69, n 2, November 2000, 235-238
- 48. Zhao, Jinhua and David Zilberman, "Irreversibility and Restoration in Natural Resource Development," *Oxford Economic Papers*, v 51, n 3, July 1999, 559-573
- 49. Rausser, Gordon C., Leo K. Simon, and Jinhua Zhao, "Information Asymmetries, Uncertainties, and Cleanup Delays at Superfund Sites," *Journal of Environmental Economics and Management*, v 35, n 1, January 1998, 48-68
- 50. Zhao, Jinhua, "Gradualism or Big Bang? A Dynamic Approach," *Revue D'économie Du Développement*, No. 1-2, 1996, 5-31

NONREFEREED PUBLICATIONS

- 1. Zhao, Jinhua, "Environmental Economics and Policy: Two Way Learning Between China and the Rest of the World," *Frontiers of Economics in China*, 9(1), 2014, 1-5.
- 2. Zhao, Jinhua, "Economic Impacts of Reducing GHG Emissions," in *Climate Change and Michigan*, Report of the Climate Change Working Group, MSU UM, 2009
- 3. Karp, Larry and Jinhua Zhao, "Suggestions for the Road to Copenhagen," Report to the Expert Group on Environmental Studies, Ministry of Finance, Regeringskansliet, 2009
- 4. Zhao, Jinhua and Catherine L. Kling, "Willingness-to-Pay, Compensating Variation, and the Cost of Commitment," in Richard O. Zerbe Jr. eds., *Benefit-Cost Analysis (International Library of Critical Writings in Economics)*, vol 1, Edward Elgar, 2008 (Reprinted from Economic Inquiry v 42, n 3, July 2004, 503-517.)
- 5. Rausser, Gordon C., Leo K. Simon, and Jinhua Zhao, "Information Asymmetries, Uncertainties, and Cleanup Delays at Superfund Sites," in Hilary Sigman eds., *The Economics Of Hazardous Waste And Contaminated Land*, Edward Elgar, 2008 (Reprinted from JEEM 35(1): 48-68.)
- 6. Feng, Hongli, Jinhua Zhao, and Catherine L. Kling, "The Time Path and Implementation of Carbon Sequestration," in S. Batie and R. Horan eds., *The Economics of Agri-Environmental Policy*. Vol 2. International Library of Environmental Economics and Policy. Aldershot, U.K. and Burlington, Vt.: Ashgate, 2004 (Reprinted from AJAE 84(1): 134-149.)
- 7. Hueth, Brent, Catherine L. Kling, and Jinhua Zhao, "What Iowans Want Iowa to Look Like," Chapter 6, *Iowa's Land and Environment Serving Competing Needs*, College of Agriculture, Iowa State University, 2000
- 8. Babcock, Bruce, John Beghin, Michael Duffy, Hongli Feng, Brent Hueth, Catherine L. Kling, Lyubov Kurkalova, Uwe Schneider, Silvia Secchi, Quinn Weninger, and Jinhua Zhao, "Conservation Payments: Challenges in Design and Implementation," Department of Economics, Iowa State University, 2001

PAPERS UNDER REVIEW

- Zhao, Jinhua, "Aggregate Emission Intensity Targets: Applications to the Paris Agreement," 2018
- Zhao, Jinhua, John M. Kerr, Maria K. Lapinski and Rob Shupp, "The Influence of Short-Term Financial Incentives on Social Norms and Behaviors," 2017
- Zhao, Jinhua, "Adoption of GM Crops: the Role of Uncertainties in Regulatory Delay, Approval and Profitability," 2017
- Wang, Min and Jinhua Zhao, "Are Renewable Energy Policies Climate Friendly? The Role of Capacity Constraints and Market Power," revise and resubmit, *Journal of Environmental Economics and Management*, 2018
- Zhao, Jinhua, "Information Externalities and Strategic Delay in Technology Adoption and Diffusion," 2016

WORKING PAPERS

Lee, Sangjun and Jinhua Zhao, "Adaptation to Climate Change: Gradual Changes vs. Extreme Events," 2017

- Rausser, Gordon C., Leo K. Simon, and Jinhua Zhao, "Polarization and Strategic Exaggeration," 2017
- Tan, Jijun and Jinhua Zhao, "Experiences and Environmental Preferences: the Case of Beijing Olympics," 2015
- Andersen, Soren, Chenguang Wang, and Jinhua Zhao, "Let Them Eat Switchgrass? Modeling the Displacement of Existing Food Crops by New Bioenergy Feedstocks," 2013
- Karp, Larry, and Jinhua Zhao, "A Proposal to Reform the Kyoto Protocol: the Role of Escape Clauses and Farsight," 2013
- Song, Feng, Jinhua Zhao, and Scott Swinton, "Alternative Land Use Policies: Real Options with Costly Reversibility," 2015
- Kim, Jong Duk and Jinhua Zhao, "What Determined Permit Allocation in EU-ETS: Economic Theory vs. Political Rhetoric," 2012
- Marwah, Shikha and Jinhua Zhao, "Double Irreversibilities and Endogenous Learning in Land Conversion Decisions," 2013
- Zhao, Jinhua, "Will Protecting ANWR Hurt or Help the Growth of Biofuel and Solar Energy?" 2009

PAPER PRESENTATIONS

- 2018: Annual Meeting of the Society for Benefit-Cost Analysis, Washington DC Workshop on the Economics of Environment, Energy and Climate, Peking University, Beijing, China
- 2017: Annual Meeting of the European Environmental and Resource Economics Association, Athens, Greece Workshop on the Economics of Environment, Energy and Climate, Peking University, Beijing, China Shenyang Agricultural University, Shenyang, China Xi'an Jiaotong University, Xi'an China Singapore Economic Review Conference, Singapore ADBI Globalization and Environment Conference, Asian Development Bank Institute, Tokyo Renmin University of China, Beijing, China Lingnan University, Hong Kong Hong Kong University of Science and Technology Indiana University at Bloomington US-China Joint Symposium on the Nexus of Food, Energy, and Water Systems, Franklin, Tennessee
- 2016: University of Alberta NTU Environmental Economics Workshop, Singapore Peking University AAEA Annual Meetings, Boston, MA China-US Joint Annual Symposium on International Nexus of Food, Energy, Water, and Soil, Yixing, China Health Effects of Environmental Pollution and Policy Responses in China, Shanghai, China
- 2015: ASSA Annual Meeting, AERE/AEA session, Boston, MA Korean Energy Economics Institute, Ulsan, Korea 34th International Energy Workshop, Abu Dhabi, UAE Capital University of Economics and Trade, Beijing, China Singapore Economic Review conference, Singapore China-US Climate Action and Cooperation Workshop, Duke Kunshan University, Kunshan, China Coupling Economic Models with Agronomic, Hydrologic, and Bioenergy Models for Sustainable Food, Energy, and Water Systems, Ames, Iowa 15th Annual China Economics Conference, Shanghai, China
- 2014: International Conference on China's Environmental Challenges: A Global Perspective, Shanghai, China Seventh Annual Berkeley Bioeconomy Conference: Biofuel as Part of a Sustainable Strategy, UC Berkeley the Economics of Complex Systems Conference,

- Beijer Institute, The Royal Swedish Academy of Sciences, Stockholm, Sweden Nanyang Technological University International Workshop on Environmental Economics, Singapore
- 2013: Peking University, China Western Economic Association International Conference, Tokyo, Japan • AERE Annual Meeting, Banff, Canada • Asian Development Review Conference, Manila, Philippines • Singapore Economic Review Conference, Singapore
- 2012: ASSA/AERE Winter Meeting, Chicago Chinese Economist Society Summer Meeting, Kaifeng, China Global Environmental Challenges: the Role of China, Shanghai, China
- 2011: LKY School of Public Policy, National University of Singapore Public Utilities Meeting, MSU Central Michigan University AERE Annual Meeting, Seattle PACE Summer Camp, Hangzhou, China Singapore Economic Review Conference, Singapore
- 2010: MSU Climate Change Research Forum Energy Forum with US Senator Debbie Stabenow Expert Consultation on Developing a Sustainable Bioenergy Program in Africa, Dakar, Senegal Shanghai University of Finance and Economics, Shanghai, China Fourth World Congress of Environmental and Resource Economists, Montreal, Canada Workshop on Climate Change Impacts, Vulnerability and Adaptation in the Midwest, Indiana University, Bloomington Yangling International Agri-Science Forum, Yangling, China School of Economics, Renmin University, Beijing, China
- 2009: The World Bank; International Conference on Modeling Water Pollution at Watershed Level, Hangzhou, China Heartland Environmental and Resource Economics Workshop, UIUC
- 2008: UC Santa Barbara; Michigan State
- 2007: University of Nebraska, Lincoln; NBER Summer Institute on Public Economics and Environmental Economics
- 2006: Texas A&M University; University of Central Florida; AERE sessions, AAEA Annual Meetings, Long Beach, CA; School of Environment, Peking University, China
- 2005: Michigan State University; UC Berkeley
- 2004: University of Maryland; WIDER conference on Globalization and Poverty, Helsinki, Finland; UC Davis; 6th Heartland Environmental and Resource Economics Conference, Ames, Iowa; International Symposium on China's Agriculture After WTO, Hangzhou, China; AAEA Annual Meetings, Denver
- 2003: Second Tilburg Symposium on Psychology and Economics: Games and Decisions, Tilburg, the Netherlands; Frontiers in Natural Resource and Environmental Economics, A Conference in Honor of Gardner M. Brown; UC Davis
- 2002: University of Minnesota; Camp Resources X, Wilmington, North Carolina; Center for Chinese Agricultural Policy, Chinese Academy of Sciences, Beijing, China; China Center for Economics Research, Peking University, China; University of Illinois at Urbana-Champion
- 2001: University of Central Florida; Southern Economic Association meetings, Tampa; AERE Sessions, AAEA Annual Meetings, Chicago; Farm Bill and the Environment, Washington, DC; University of Washington; University of Maryland; UC Davis; AERE Sessions, ASSA Annual Meetings, New Orleans
- 2000: University of Minnesota; University of Arizona; Columbia University; AAEA Annual Meetings, Tampa
- 1999: AERE/Harvard Workshop on Market Based Instruments for Pollution Control,
 Cambridge; AERE Sessions and AAEA Sessions, AAEA Annual Meetings, Nashville;
 UC Berkeley; UC Davis; UC Santa Barbara;

- 1998: University of Washington; NBER University Conference on Trade and Environment, Cambridge
- 1997: Texas A&M University; Iowa State University; Resources for the Future; University of Washington
- 1996: Western Economic Association Annual Conference, San Francisco
- 1995: AAEA Annual Meetings, Indianapolis; International Conference on Chinese Economy, CERDI, Clermont-Ferrand, France

PROFESSIONAL AFFILIATIONS AND REFEREEING

Membership in: American Economic Association, American Applied Economics Association,

Association of Environmental and Resource Economists

Referee for: Agricultural and Resource Economics Review, Agricultural Finance Review,

American Journal of Agricultural Economics, BE Journals of Economics, Canadian Journal of Agricultural Economics, Canadian Journal of Economics, Ecological Economics, Economic Inquiry, Economics Letters, Environment and Development Economics, Environmental and Resource Economics, Environmental Studies and Sciences, European Economic Review, International Economic Review, International Journal of Business and Economics, Journal of Agricultural and Resource Economics, Journal of Association of Environmental and Resource Economists, Journal of Economic Dynamics and Control, Journal of Environmental Economics and Management, Journal of European Economic Association, Journal of Health Economics, Journal of Political Economy, Journal of Public Economic Theory, Journal of Public Economics, Mathematics and Financial Economics, National Science Foundation, Nature Climate Change, Optimal Control Applications and Methods, Oxford Economic Papers, Proceedings of the National Academy

of Science, Quarterly Journal of Economics, Rand Journal of Economics, Review of Development Economics, Resource and Energy Economics, Review of Economic Studies, Social Sciences and Humanities Research

Council of Canada, Southern Economic Journal