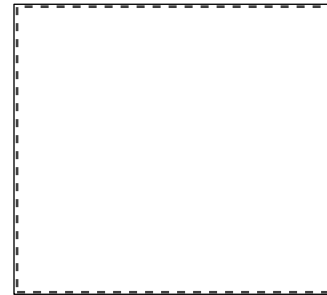




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PhD: **University of California at Berkeley** MS: **University of Guelph** BS: **University of Science and Technology Beijing**

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**Short Bio:**

Jinhua Zhao received his PhD from UC Berkeley and is a Professor of Economics and director of the Environmental Science and Policy Program at Michigan State University. He serves on the Environmental Economics Advisory Committee of the US EPA's Science Advisory Board and the Air, Climate and Energy Committee of EPA's Board of Scientific Counselors. He was a co-editor of the Journal of Environmental Economics and Management and served on the editorial councils of JEEM and the Review of Development Economics, and is on the editorial committees of Annual Review of Resource Economics and Frontier of Economics in China. He conducts research in the broad area of environmental and resource economics, with special interests in global climate change, renewable energies, water, technology adoption, and dynamic decision making under uncertainty. His publications have appeared in Economic Journal, International Economic Review, Journal of Economic Theory, Journal of Public Economics, JEEM and American Journal of Agricultural Economics. His research projects have been funded by US National Science Foundation, US Department of Agriculture, US EPA, NASA, and the National Natural Science Foundation of China.

**Five Representative Publications:**

- Li, Haoyang and Jinhua Zhao, "Rebound Effects of New Irrigation Technologies: The Role of Water Rights," *American Journal of Agricultural Economics*, conditionally accepted
- Lapinski, Maria K., John M. 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>
- Ye, Guangliang and Jinhua Zhao, "Environmental Regulation in a Mixed Economy," *Environmental and Resource Economics*, 2016, 65, 273-295.
- 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.
- Zilberman, David, Jinhua Zhao, and Amir Heiman "Adaptation versus Adoption: with Emphasis on Climate Change," *Annual Review of Resource Economics*, 4, 2012, 27-53.

**FEWSTERN Symposium 2017 Presentation Title and Abstract:**

Modeling Farmer Decisions under Uncertainty in Linked Natural and Socioeconomic Systems

**Abstract:**

I develop and estimate a set of economic models on farmer decisions to adopt and utilize a new irrigation technology under uncertainty in the Ogallala region of Kansas. The models include structural econometric models to estimate farmers' technology adoption decisions, and reduced form models to estimate the effects of the new technologies on irrigation water use. The socioeconomic models are linked with physical process based models of crop growth and hydrology, and these models together provide comprehensive assessment of the potential sustainability of production agriculture facing limited water supply. I also discuss the opportunities and challenges in linking natural and socioeconomic models.