

# Qiuqiong Huang

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## Education

*Ph. D., Agricultural and Resource Economics*, University of California, Davis, 2006.

*B.A., Food Science*, Remin University of China, 1999.

## Professional experience

*Associate Professor with Tenure*, Department of Agricultural Economics and Agribusiness,  
University of Arkansas, August 2013-current

*Associate Professor with Tenure*, Department of Applied Economics, University of Minnesota,  
August 2012-May 2013

*Assistant Professor*, Department of Applied Economics, University of Minnesota, August 2006-  
August 2012

## Other positions

- *Applied Economic Perspectives and Policy*, Editorial Board, July, 2015-June, 2018
- *Water Resources and Rural Development* (Elsevier), Editorial Board, 2013-current.
- *Graduate Faculty*, Environmental Dynamics Program, University of Arkansas, 2015-current.

## Research interest

- Natural resource economics with an emphasis on the economics of irrigation water.
- Development issues including education, migration and labor market outcomes.

## Peer-reviewed *journal* articles

\* Articles from dissertation/thesis

† Articles coauthored with junior researchers (Ph.D. students at other universities, assistant professors, post-doctoral researchers) in which I also served as the mentor.

1. Knapp, T.,<sup>†</sup> K. Kovacs, Q. Huang, Do climate factors matter for producers' irrigation practices decisions? *Journal of Hydrology* Accepted
2. **Huang, Q.**, Y. Xu,<sup>†</sup> K. Kovacs, G. West, 2017. Analysis of factors that influence the use of irrigation technologies and water management practices in Arkansas. *Journal of Agricultural and Applied Economics* 49(2): 159-185. doi: <https://doi.org/10.1017/aae.2017.3>
3. Glewwe, P., **Q. Huang**, A. Park, 2017. Cognitive skills, noncognitive skills, and school-to-work transitions in rural China. *Journal of Economic Behavior and Organization* 134: 141-164.
4. **Huang, Q.**, J. Wang, Y. Li, 2017. Do water saving technologies save water? Empirical evidence from north China. *Journal of Environmental Economics and Management*, 82: 1-16. doi: <http://dx.doi.org/10.1016/j.jeem.2016.10.003>.
5. Yin, N.,\* **Q. Huang**, Z. Yang, Y. Wang, 2016. Impacts of off-farm employment on irrigation water efficiency in north China. *Water* 8(10), 452. doi:[10.3390/w8100452](https://doi.org/10.3390/w8100452).
6. Sun, T.,<sup>†</sup> J. Wang, **Q. Huang**, Y. Li, 2016. Assessment of water rights and irrigation pricing reforms in Heihe River Basin in China. *Water* 8(8), 333. doi:[10.3390/w8080333](https://doi.org/10.3390/w8080333).
7. Zhang, L.,<sup>†</sup> J. Wang, G. Zhang, **Q. Huang**, 2016. Impact of the methods of groundwater access on irrigation and crop yield in the North China Plain: Does climate matter? *China Agricultural Economic Review* 8(4): 613-633.
8. Magugu, J.W.,\* S. Feng, **Q. Huang**, K. Luthra, 2016. Impact of climate variations on soybean yield in eastern Arkansas: 1960-2014. *Journal of the Arkansas Academy of Science*. 70: 130-140.
9. Wang, Z.,<sup>†</sup> **Q. Huang**, M. Giordano, 2015. The effect of private tubewells on income and income inequality in rural Pakistan. *Journal of Hydrology* 527, 50-61.
10. Boyle, C.E.,<sup>†</sup> **Q. Huang**, J. Wang, 2014. Assessing the impacts of fiscal reforms on investment in village-level irrigation infrastructure. *Water Resources Research* 50 (8): 6428-6446. doi:[10.1002/2013wr015125](https://doi.org/10.1002/2013wr015125).
11. **Huang, Q.**, 2014. Impact evaluation of the irrigation management reform in northern China. *Water Resources Research* 50 (5): 4323-4340. doi: [10.1002/2013wr015192](https://doi.org/10.1002/2013wr015192).
12. Wang, J., J. Huang, L. Zhang, **Q. Huang**, 2014. Do incentives still matter for the reform of surface irrigation management in the Yellow River Basin in China? *Journal of Hydrology* 517 (2014) 584-594.
13. Liu, H.,<sup>†</sup> **Q. Huang**, 2013. Adoption and continued use of contour cultivation in the highlands of southwest China. *Ecological Economics*, 91: 28-37.
14. **Huang, Q.**, J. Wang, S. Polasky, S. Rozelle, Y. Liu, 2013. The effects of well management and the nature of the aquifer on groundwater resources. *American Journal of Agricultural*

*Economics* 95(1): 94-116.

15. **Huang, Q.**, R. Howitt, S. Rozelle, 2012. Estimating production technology for policy analysis: Trading off precision and heterogeneity. *Journal of Productivity Analysis* 38: 219-33.
16. Deng, X., J. Huang, **Q. Huang**, S. Rozelle, J. Gibson, 2012. Do roads lead to grassland degradation or restoration? a case study in Inner Mongolia, China. *Environment and Development Economics* 16 (6): 751-773.
17. **Huang, Q.**, S. Rozelle, R. Howitt, J. Wang, J. Huang, 2010. Irrigation water demand and implications for water pricing policy in rural China. *Environment and Development Economics* 15(3): 293-319.
18. **Huang, Q.**, J. Wang, K. W. Easter, S. Rozelle, 2010. Empirical assessment of water management institutions in northern China. *Agricultural Water Management* 98 (2): 361-369.
19. Zhang, L., J. Wang, J. Huang, **Q. Huang**, S. Rozelle, 2010. Access to groundwater and agricultural production in China. *Agricultural Water Management* 97(10): 1609-1616.
20. Wang, J., Huang, J., Zhang, L., **Q. Huang**, S. Rozelle, 2010. Water governance and water use efficiency: The five principles of WUA management and performance in China. *Journal of the American Water Resources Association* 46 (4): 665-685.
21. **Huang, Q.**, S. Rozelle, J. Wang, J. Huang, 2009. Water management institutional reform: a representative look at northern China. *Agricultural Water Management* 96(2): 215-225.
22. Chen, X., <sup>†</sup>**Q. Huang**, S. Rozelle, Y. Shi, L. Zhang, 2009. Effect of migration on children's educational performance in rural China. *Comparative Economic Studies* 51(3): 323-343.
23. Wang, J., J. Huang, **Q. Huang**, S. Rozelle, H.F. Farnsworth, 2009. The evolution of groundwater governance: productivity, equity and changes in the level of China's aquifers. *Quarterly Journal of Engineering Geology and Hydrogeology* 42(3): 267-280.
24. Wang, J., J. Huang, S. Rozelle, **Q. Huang**, L. Zhang, 2009. Understanding the water crisis in northern China: What government and farmers are doing? *International Journal of Water Resources Development*, 25(1): 141-58.
25. **Huang, Q.**, S. Rozelle, J. Huang, J. Wang, S. Msangi, 2008. Water management reform and the choice of the contractual form in rural China. *Environment and Development Economics* 13(2): 171-200.
26. **Huang, Q.**, S. Rozelle, D. Hu, 2007. Pump sets clusters in china: Explaining the organization of the industry that revolutionized Asian agriculture. *Asia-Pacific Development Journal* 14(2): 75-106.
27. Wang, J., J. Huang, S. Rozelle, **Q. Huang**, A. Blanke, 2007. Agriculture and groundwater development in northern China: trends, institutional responses, and policy options. *Water Policy* 9(1): 61-74.
28. **Huang, Q.**, S. Rozelle, B. Lohmar, J. Huang, J. Wang, 2006. Irrigation, agricultural performance and poverty reduction in China. *Food Policy* 31(1): 30-52.
29. Wang, J., J. Huang, **Q. Huang**, S. Rozelle, 2006. Privatization of tubewells in North China: Determinants and impacts on irrigated area, productivity and the water table. *Hydrogeology Journal* 14(3): 275-285.

30. **Huang, Q.**, D. Dawe, S. Rozelle, J. Huang, J. Wang, 2005. Irrigation, poverty and inequality in rural China. *Australian Journal of Agricultural and Resource Economics* 49(2): 159-175.

### **Peer-reviewed books**

1. Wang, J., **Q. Huang**, J. Huang, S. Rozelle, 2014, *Managing Water on China's Farms: Institutions, Policies and the Transformation of Irrigation under Scarcity*. Global Issues in Water Policy Series, Springer Science + Business Media Dordrecht.
2. Easter, K.W. and **Q. Huang** (eds.). 2014. *Water Markets for the 21st Century: What Have We Learned?* Global Issues in Water Policy Series Vol. 11, Springer Science + Business Media Dordrecht.
3. Wang, J., J. Huang, Z. Xu, S. Rozelle, **Q. Huang**, 2005. The Reform in Water Resource Managing Institutions, Irrigation and Pro-Poverty, China Waterpower Press (Book in Chinese)

### **Peer-reviewed book chapters**

1. **Huang, Q.**, J. Wang, S. Msangi, S. Rozelle, J. Huang, 2014. Chapter 21. Agricultural Water Management at the Village Level in Northern China. In *Routledge Handbook of Water Economics and Institutions*. (eds.) K. Burnett, R. Howitt, J. Roumasset, C. Wada. Routledge.
2. Easter, W. and **Q. Huang**, 2014. Chapter 1. Water Markets: How Do We Expand Their Use? In K.W. Easter and Q. Huang (eds.). *Water Markets for the 21st Century: What Have We Learned?* Global Issues in Water Policy Series Vol. 11. Springer Science + Business Media Dordrecht.
3. Easter, W. and **Q. Huang**, 2014. Chapter 17. The New Role for Water Markets in the 21st Century. In K.W. Easter and Q. Huang (eds.). *Water Markets for the 21st Century: What Have We Learned?* Global Issues in Water Policy Series Vol. 11. Springer Science + Business Media Dordrecht.
4. Wang, J., L. Zhang, **Q. Huang**, S. Rozelle, 2014. Chapter 14. Development and Assessment of Groundwater Market in rural China. In K.W. Easter and Q. Huang (eds.). *Water Markets for the 21st Century: What Have We Learned?* Global Issues in Water Policy Series Vol. 11, Springer Science + Business Media Dordrecht.
5. Chen, X., **Q. Huang**, S. Rozelle, Y. Shi, L. Zhang, 2009. Effect of Migration on Children's Educational Performance in Rural China. *Comparative Economic Studies* 51(3): 323-343. Selected by the editors and Reprinted in Josef C. Brada, Paul Wachtel, Dennis Yang (eds.) 2014. *China's Economic Development: Past and Present*. Palgrave Readers in Economics Series.
6. **Huang, Q.**, 2009. Chapter 5. Management of Irrigation Water in Rural China. In *Water and Agriculture: Implications for Development and Growth*, ed. J. Briscoe et al. Washington, DC: Center for Strategic and International Studies.
7. Lohmar, B., **Q. Huang**, B. Lei, Z. Gao, 2008, Chapter 12. Water Pricing Policies and Recent Reforms in China: The Conflict between Conservation and other Policy Goals. In *Irrigation Water Pricing The Gap Between Theory and Practice*, eds. F. Molle et al. Publisher: CAB International.

8. Wang, J., J. Huang, A. Blanke, **Q. Huang**, S. Rozelle, 2007. Chapter 3. The Development, Challenges and Management of Groundwater in Rural China. In *The Agricultural Groundwater Revolution: Opportunities and Threats to Development*, eds. M. Giordano and K.G. Villholth. Publisher: CAB International.

### **Non-refereed publication**

**Huang, Q.**, K. Kovacs, Y. Xu<sup>†</sup>. 2016. “Cost-Effective Use of Water? Factors Influencing the Use of Irrigation Technologies and Water Management Practices by Arkansas Producers.” In: R.J. Norman and K.A.K. Moldenhauer, (eds). B.R. Wells Rice Research Studies 2015. University of Arkansas Agricultural Experiment Station Research Series 634: 426-432. Fayetteville, Arkansas.

### **Work in progress**

\*Work from dissertation/thesis

<sup>†</sup> Work with junior researchers (Ph.D. students at other universities, assistant professors, post-doctoral researchers) in which I also serve as the mentor.

### **Under revision and resubmission**

1. Yin, N., \* **Q. Huang**, Y. Wang, Impacts of off-farm employment on groundwater irrigation in North China. Revised and resubmitted, *Environment and Development Economics*.
2. Zhang, L., <sup>†</sup> J. Wang, **Q. Huang**, Impact of ways to access groundwater on irrigation and crop yield: Does climate change matter? *Journal of Hydrology*.
3. **Huang, Q.**, S. Rozelle, R. Howitt, J. Wilen, Optimal Allocation of Groundwater Resources - Managing Water Quantity and Quality. In S. Msangi and D. MacEwan (eds.). *Applied Methods for Addressing Policy Issues in Agricultural and Natural Resource Management*. Springer International Publishing AG.

### **Submitted to journals**

1. Knapp, T., \* K. Kovacs, **Q. Huang**, C. Henry, R. Nayga, J. Popp, B. Dixon, Willingness to pay for irrigation water when groundwater is scarce. Submitted to *Agricultural Water Management*.
2. Jiang, Y., H. Wang, J. Wang, **Q. Huang**, H. Deng, Groundwater Irrigation and Management in Northern China: Status, Trends and Challenges. Submitted to *International Journal of Water Resources Development*.

### **Working papers**

1. Nian, Y., \* **Q. Huang**, Does social capital boost irrigation capital? Evidence from north China. *Data analysis completed, manuscript under preparation*.
2. Nian, Y., \* **Q. Huang**, K. Kovacs, C. Henry, J. Krutz, Factors that influence the portfolio of the irrigation practices used by Arkansas producers. *Preliminary analysis underway*.
3. **Huang, Q.**, R.M. Nayga Jr., Y. Qian, Effect of having an opposite-sex twin on labor market

outcomes in United States. *Data analysis underway.*

4. **Huang, Q.**, K. Kovacs, Y. Xu,<sup>†</sup> Impact of on-farm water conservation practices on groundwater use in Arkansas. *Data analysis completed, manuscript under preparation.*
5. Zuo, A.,<sup>†</sup> J. Wang, **Q. Huang**, L. Zhang, Water conservation from fallow land: Estimating farmers' willingness to accept from survey data in Northern China. *Data analysis completed, manuscript under preparation.*
6. Zhang, L.,<sup>†</sup> **Q. Huang**, J. Wang., B. Guan, Surface irrigation water management institutions in the past 20 years in northern China. *Data analysis underway.*

## **Survey data collected**

### **1. The Delta Irrigation Survey (2016)**

- Collaborators: Chris Henry from Rice Research Extension Center, Jason Krutz from Mississippi State University, Ronnie Levy from Louisiana State University, Kent Kovacs from University of Arkansas.
- The survey collected detailed information on irrigation practices used by producers in Arkansas, Missouri, Mississippi, and Louisiana.
- The final sample size of the Arkansas part is 231 producers. The Arkansas Add-on Survey contains two additional blocks on willingness to pay for surface water irrigation water and on-farm reservoir.

### **2. China Water Institution and Management Panel Survey (CWIM)**

- Five rounds: 2001, 2004, 2008, 2012, 2016.
- Sample sites and Respondents: 80 village leaders, 109 well operators, 68 canal managers, and 320 households (separate survey questionnaires used) in three provinces (Hebei province in the Hai River Basin, Henan and Ningxia provinces in the Yellow River Basin). Since the fourth round in 2012, 8 more villages are added in Hebei province.
- Collaborator: Dr. Jinxia Wang (professor, Peking University).
- CWIM is the ONLY panel data set that have detailed irrigation water use information at household level in China

### **3. North China Water Resources Panel Survey (NCWRS)**

- Two Rounds: 2004 and 2016.
- Sample sites and Respondents: 400 villages (50 counties / 80 townships) in six provinces ( Inner Mongolia, Hebei, Henan, Liaoning, Shaanxi and Shanxi )
- Collaborator: Dr. Jinxia Wang (professor, Peking University).

### **Professional presentations**

\*: Presenter is a student or a post-doctoral researcher under my supervision.

### ***Invited talks***

1. Discussant, 2016 Agricultural Symposium, Agriculture's Water Economy, organized by the Federal Reserve Bank of Kansas City, July 11-12 in Kansas City, Missouri.
2. Invited Speaker, "Groundwater management and policies in the changing landscape of rural China." Conference on Applied Methods for Ag & Resource Economics: A Festschrift for Richard E. Howitt, UC Davis, May 23-24, 2016.
3. Invited Seminar Speaker, "Cognitive Skills, Noncognitive Skills, and School-to-Work Transitions in Rural China." Department of Education Reform, University of Arkansas, 2016.
4. Invited Speaker, "Cognitive Skills, Noncognitive Skills, and School-to-Work Transitions in Rural China." Workshop on Human Capital and Labor Market of China, Organized jointly by The Rural Education Action Program and the Chinese Women Economists Network, February 17, 2016, Stanford University.
5. Invited Seminar, "Groundwater management in north China: behavior, hydrology and institution." April 18, 2014, University of New Mexico, Department of Economics.
6. Invited Seminar, "The effects of well management and the nature of the aquifer on groundwater resources." April 4, 2013, Michigan State University, Department of Agricultural, Food, and Resource Economics.
7. Invited Speaker, "Water demand management in north China: Market, State or Institution?" February 26-28, 2013, Innovations in Water Policy-Theory, Practice, and Impacts workshop, organized by National University of Singapore.
8. Invited Seminar, "The effects of well management and the nature of the aquifer on groundwater resources." October 5, 2012, University of Nebraska - Lincoln, Department of Agricultural Economics & School of Natural Resources.

### ***Refereed professional presentations***

1. Knapp, T.,\* K. Kovacs, **Q. Huang**, C. Henry, R. Nayga, J. Popp, B. Dixon, "Willingness to Pay for Irrigation Water when Groundwater is Scarce." 2017 WAEA Annual Meeting in Lake Tahoe, NV, July 9-11.
2. Nian, Y.,\* **Q. Huang**, "Social Trust and Investment in Irrigation Infrastructure: Evidence from North China." 2017 WAEA Annual Meeting in Lake Tahoe, NV, July 9-11.
3. Nian, Y., **Q. Huang**, K. Kovacs, C. Henry, J. Krutz, "Factors that Influence the Adoption and the Continued Use of Irrigation Technologies and Water Management Practices." 2017 WAEA Annual Meeting in Lake Tahoe, NV, July 9-11.
4. Nian, Y., **Q. Huang**, K. Kovacs, C. Henry, "Factors that Influence the Adoption and the Continued Use of Irrigation Technologies and Water Management Practices." The 2017 Arkansas Water Resources Center Water Conference in Fayetteville, July 25-26, 2017..

5. Nian, Y., C. Henry, **Q. Huang**, K. Kovacs, “Status of irrigation practices use in Arkansas.” The 2017 annual meeting of Delta States Farm Management Group (SERA-35 ), Vicksburg, MS, May 24-26, 2017.
6. **Huang, Q.**, Y. Xu, G. West, “Do Climate Risks Affect the Use of Irrigation Technologies and Water Management Practices? Evidence from Arkansas.” 2016 Universities Council on Water Resources/NIWR Conference, Pensacola Beach, FL, June 21-23, 2016.
7. **Huang, Q.**, Y. Xu, “Impact of On-Farm Water Conservation Practices on Groundwater Use in Arkansas.” 2016 Universities Council on Water Resources/NIWR Conference, Pensacola Beach, FL, June 21-23, 2016.
8. Magugu, J.,\* **Q. Huang**, S. Feng, “Impact of Climate Variations on Soybean Yield in Eastern Arkansas: 1960-2014.” The 100th Annual Meeting of Arkansas Academy of Science, April 1-2, 2016, University of Arkansas, Fayetteville, AR
9. Xu, Y.,\* **Q. Huang**, G. West, “Adoption of Irrigation Technology and Best Management Practices under Climate Risks: Evidence from Arkansas, United States.” 2015 Southern Agricultural Economics Association Annual Meeting, January 31-February 3, 2015, Atlanta, Georgia
10. Wang, Z.,\* **Q. Huang**, “The Effect of Private Tubewells on Income and Income Inequality in Rural Pakistan.” 5th World Congress of Environmental and Resource Economics (WCERE), Istanbul (Turkey). June 28, 2014-July 2, 2014.

#### ***Refereed poster presentations***

1. Nian, Y.,\* **Q. Huang**, “Social Trust and Investment in Irrigation Infrastructure: Evidence from North China.” 2017 AAEA Annual Meeting in Chicago, IL July 30-August 1, 2017.
2. Knapp, T.,\* **Q. Huang**, Y. Xu, G. West, “Do Climate Risks Affect the Use of Irrigation Technologies and Water Management Practices? Evidence from Arkansas.” Poster presented at the 2016 Arkansas Water Resources Center Water Conference in Fayetteville, Arkansas.
3. **Huang, Q.**, Y. Xu, “Impact of On-farm Water Conservation Practices on Groundwater Use in Arkansas.” Poster Presentation on the 2015 Agricultural and Applied Economics Association Annual Meeting, July 26-28, San Francisco, California.
4. **Huang, Q.**, “Effects of Groundwater Management on Groundwater Use Under Policy Changes.” Poster Presentation on the 2015 Agricultural and Applied Economics Association Annual Meeting, July 26-28, San Francisco, California.
5. Liu, H., **Q. Huang**, “Adoption and Continued Use of Contour Cultivation in the Highlands of Southwest China.” Poster Presentation at the 2012 AAEA & NAREA Joint Annual Meeting, August 12-14, 2012, Seattle, WA.



### ***Professional presentations prior to 2012***

- Conference presentation: Cognitive Skills, Non-Cognitive Skills, and the Labor Market Outcomes of Young Adults in Rural China, Presented at the 2011 AAEA & NAREA Joint Annual Meeting, July 24-26, 2011, Pittsburgh, PA.
- Conference presentation: Surface Water Irrigation Management in Northern China in the Past Decade: Development and Assessment, Presented at the inaugural Association of Environmental and Resource Economists (AERE) Summer Conference, June 6-8, 2011, Seattle, WA.
- Seminar: Do Roads Lead to Grassland Degradation or Restoration? A Case Study in Inner Mongolia, China, Presented at Environmental and Resource Economics (ERE) Seminar, Applied Economics, U of Minnesota, February 8th, 2010
- Conference presentation: Empirical Assessment of Water Management Institutions in Northern China, Presented at the 2010 AAEA, CAES, & WAEA Joint Annual Meeting, July 25-27, 2010, Denver, CO.
- Private or Collective: Impacts of Different Well Ownership on Water Resources
  - Conference presentation: the 27th International Conference of International Association of Agricultural Economists (IAAE), Beijing China, August 16-22, 2009.
  - Conference presentation: the 2009 AAEA & ACCI Joint Annual Meeting, Milwaukee, Wisconsin, July 26-28 2009.
  - Seminar: Development Workshop, Department of Agricultural and Resource Economics, May 22, 2009, University of California-Davis.
  - Environmental and Resource Economics Seminar, Department of Applied Economics, University of Minnesota, March 9, 2009.
  - Seminar: Water Resource Sciences Seminar, University of Minnesota, April 18, 2008.
  - Seminar: Trade and Development Seminar, Department of Applied Economics, University of Minnesota, April 25, 2008
- Policy or Peasant: Who can build the bridges over China's troubled waters?
  - Invited Panelist: the Water and Agriculture: Implications for Development and Growth Conference, organized by Johns Hopkins School of Advanced International Studies, March 30, 2009, Washington, D.C.
  - Conference presentation: the 27th International Conference of International Association of Agricultural Economists (IAAE), Beijing China, August 16-22, 2009.
  - Invited Speaker: Toward Sustainable Groundwater in Agriculture: An International Conference Linking Science and Policy, Organized by the Water Education Foundation and University of California, Davis, June 15-17, 2010, San Francisco, CA
  - Conference presentation: the Fourth World Congress of Environmental and Resource Economists, June 28-July 2, 2010, Montreal, Canada
- Water Management Institutional Reform: A Representative Look at Northern China
  - Conference presentation: the symposium on China's Agricultural Economy and Trade: Agribusiness, Food Marketing, Environmental Issues and Evolving Policies (WERA-2007), July 12-13, 2007, Shanghai, China.
- Optimal allocation of groundwater resources in the Hai River Basin - Managing water quantity and quality.
  - Conference presentation: the 2007 AAEA-AERE Annual Meeting, July 29-August 1, 2007, Portland, Oregon.

- Seminar: Environmental and Resource Economics Seminar, Department of Applied Economics, University of Minnesota, April 9, 2007.
- Seminar, International Water Management Institute, February 2005, Colombo, Sri Lanka.
- Presented at 49th Annual Australian Agricultural and Resource Economics Society (AARES) Conference, February 9-11 2005, Coffs Harbor, NSW, Australia.
- Presented at 2004 Annual Meetings of the American Agricultural Economics Association, August 4-8 2004, Denver, Colorado, USA.
- Determining the Optimal Disaggregate Level for Policy Analysis.
  - Invited Speaker: the 2007 Australian Agricultural and Resource Economics Society Annual Conference, February 13-17, 2007, Queenstown, NZ.
  - Conference presentation: the International Agricultural Trade Research Consortium (ITARC) symposium on China's Agriculture Trade: Issues and Prospects, July 8-9, 2007, Beijing, China.
- Water pricing policy in China.
  - Invited speaker, Workshop on Groundwater Economics and Policy in East & South Asia, March 9, 2007, International Food Policy Research Institute (IFPRI), Washington, D.C.
  - Conference presentation: the 26th Conference of International Association of Agricultural Economists, August 12-18, 2006, Gold Coast, Queensland, Australia.
- Agricultural water demand in northern China, Presented at Western Coordinating Committee (WCC-101) 2005 Annual China Conference, April 25-26, 2005, Reno, Nevada, USA.
- Water management reform and the choice of the contractual form in rural China.
  - Presented at Western Regional Science Association Forty-third Annual Meeting, February 25-29, 2004, Wailea, Maui, Hawaii.
  - Presented at 2003 Annual Meetings of the American Agricultural Economics Association, July 27-30, 2003, Montreal, Canada.
  - Presented at Western Coordinating Committee (WCC-101) 2003 Annual China Conference, April 17-18, 2003, Portland, Oregon, USA.
- Irrigation, poverty and inequality in rural China.
  - Presented at 2002 International Rice Congress (IRC), September 16-19, Beijing, China.
  - Seminar, International Rice Research Institute, August 2002, Los Baños, Philippines.

## **Teaching**

### **1. AGECE 5103. Agricultural Microeconomics (Master level)**

- Master program core course for thesis students and non-thesis students (without background in intermediate microeconomics).
- This course provides Masters-level training in microeconomic theory and its applications to food, agriculture and the environment. The course focuses on the traditional topics of microeconomics; behavior of firms, households and markets, in more depth and rigor than encountered in undergraduate courses. For each topic, theories are explained and then applications relevant to food, agricultural, environment and resource issues are described. The emphasis is on understanding microeconomic applications rather than theoretical or mathematical modeling. Upon completion of the course, students should have the skills to function as applied microeconomists in the real world.

### **2. AGECE 2403. Quantitative Tools for Agribusiness**

- Undergraduate program core course.
- Learning outcomes: Can explain basic statistical terms such as mean and standard deviation; can conduct basic statistical analysis including data description, testing hypotheses and linear regressions; can correctly interpret statistical results and apply statistics to examine real-world problems.

## **Service activities**

### *Department*

- Member, Departmental graduate committee, 2013- current.
- International applicant evaluator, 2015- current

### *College*

AEAB representative on college Faculty Council, January 2016-December 2017.

### *University*

Member, University Classroom, Teaching and Design Committee as a Faculty representative, 2014-current.

### ***Service to professional organizations***

- Applied Economic Perspectives and Policy, Editorial Board, July, 2015-June, 2018.
- Water Resources and Rural Development (Elsevier), Editorial Board, 2013-current.
- Reviewed 40 manuscripts during 2012-2016 with number of manuscripts in parentheses.
  - *Agricultural Water Management* (1)
  - *American Journal of Agricultural Economics* (2)
  - *Applied Economic Perspectives & Policy* (4)
  - *Australian Journal of Agricultural and Resource Economics* (1)
  - *Canadian Journal of Agricultural Economics* (2)
  - *China Agricultural Economic Review* (1)
  - *Ecological Economics* (2)
  - *Economic Development and Cultural Change* (1)
  - *Environmental Management* (1)
  - *Environment and Planning A* (1)
  - *Food Security* (1)
  - *Food Policy* (1)
  - *International Journal of Water Resources and Environmental Engineering* (1)
  - *Journal of Agricultural and Applied Economics*(1)
  - *Journal of Agricultural Science and Technology* (1)
  - *Journal of Environmental Economics and Management* (2)
  - *Journal of Environmental Policy and Governance* (1)
  - *Journal of Hydrology* (2)
  - *Journal of Productivity Analysis* (1)
  - *Journal of Soil and Water Conservation* (1)
  - *Journal of Water Resources Planning and Management* (2)
  - *Land Use Policy* (1)
  - *Water* — Open Access Journal by MDPI (2)
  - *World Development* (1)
  - *Water Economics & Policy* (1)
  - *Water Policy* (1)
  - *Water Resources Research* (4) (**Outstanding Reviewer 2014**)
- Prior to 2012, Manuscript Reviewer of these journals: *African Journal of Agricultural Research*; *Agricultural and Resource Economics Review*; *Agricultural Economics*; *Agricultural Water Management*; *Australian Journal of Agricultural and Resource Economics Journal*; *Canadian Journal of Agricultural Economics*; *Choices*; *Economic Development and Cultural Change*; *Economics and Human Biology*; *Entropy*; *Ecological Modelling*; *Environmental Management* (2); *Environmental Science & Policy*; *Journal of Agriculture & Applied Economics*; *Journal of Agricultural Economics* (2); *Journal of Agricultural Science and Technology*; *Journal of Productivity Analysis* (2); *Journal of Soil and Water Conservation*; *Review of Development Economics*; *Water Alternative*; *World Development*
- AAEA China Section, Nomination Committee, 2016.