

## **Dr. Chenggang Wang**

Texas Tech University  
(806) 834-6238  
chenggang.wang@ttu.edu

### **Education and Post Graduate Training**

Ph D, Oregon State University, 2007.

Major: Agricultural and Resource Economics

Dissertation Title: Public Investment Policy and Industry Incentives in Life Science Research

M.A. Non-Degree, 2001.

Major: International Economics

BS, Northeastern University, 1996.

Major: Metallurgical Engineering

### **Academic and Professional Experience**

**Graduate Program Coordinator, Department of Agricultural and Applied Economics.  
(September 1, 2020 - Present).**

**Associate Professor, Texas Tech University. (September 1, 2013 - Present).**

**Associate Professor, Texas AgriLife Research. (September 1, 2013 - August 30, 2017).**

**Assistant Professor, Texas AgriLife Research. (April 1, 2007 - August 30, 2013).**

**Assistant Professor, Texas Tech University. (April 1, 2007 - August 30, 2013).**

## **TEACHING**

### **Courses Taught**

#### **Texas Tech University**

AAEC 2305, Fundamentals of Agricultural and Applied Economics, 23 courses.

AAEC 3304, Agribusiness Enterprise Management, 2 courses.

AAEC 4301, Special Problems in Applied Economic Analysis-International Agribusiness in China, 6 courses.

AAEC 4313, Natural Resource Economics, 1 course.

AAEC 4319, Agribusiness Enterprise Management, 4 courses.

AAEC 5301, Special Study in Agricultural and Applied Economics, 6 courses.

AAEC 5303, Advanced Production Economics, 15 courses.

AAEC 5319, Advanced Agribusiness Enterprise Management, 2 courses.

AAEC 6000, Master's Thesis, 8 courses.

AAEC 6301, Advanced Special Problems in Agricultural and Applied Economics, 6 courses.

AAEC 6305, Economic Optimization, 7 courses.

AAEC 7000, Research, 17 courses.

AAEC 7200, Teaching Practicum, 6 courses.

AAEC 8000, Doctor's Dissertation, 37 courses.

## Directed Student Learning

Reymark Alcantara, Dissertation Committee Co-Chair. (September 2024 - Present).

Brenda Escobar, Dissertation Committee Co-Chair. (September 2023 - Present).

Dany Resolus, Dissertation Committee Co-Chair. (September 2023 - Present).

Moses Katta, Doctoral Advisory Committee Chair. (September 2022 - 2023).

Bishnu Ghimire, Doctoral Advisory Committee Member. (September 2021 - 2025).

Syed Fuad, Dissertation Defense Committee Member. (September 2019 - 2024).

Reymark Alcantara, Master's Thesis Committee Chair. (June 2022 - August 31, 2024).

Qi Kang, Dissertation Committee Co-Chair, Agricultural & Applied Economics. (September 2017 - December 2022).

Narendra Raj Tiwari, Graduate Dean's Representative. (August 2022).

Haibin Guo, Graduate Dean's Representative. (September 2018 - August 2022).

Vitalis Othuon, Dissertation Committee Chair, Agricultural & Applied Economics. (2018 - August 2022).

Isarat Jahan, Dissertation Committee Member, Agricultural & Applied Economics. (2018 - May 2022).

Ethan Sabala, Dissertation Committee Member, Agricultural & Applied Economics. (2018 - 2021).

Abidemi Adisa, Dissertation Committee Member, Agricultural & Applied Economics. (2017 - 2021).

Jasmine Neupane, Dissertation Committee Member, Plant & Soil Science. (2019 - 2020).

Niranjan Jayaramu, Dissertation Committee Chair, Agricultural & Applied Economics. (September 2016 - December 17, 2020).

Anthony Macharia, Dissertation Committee Member, Agricultural & Applied Economics. (August 2016 - December 2019).

Yi Chen, Dissertation Committee Member, Agricultural & Applied Economics. (August 2016 - December 2019).

Patrick Rono, Dissertation Defense Committee Member, Agricultural & Applied Economics. (August 2016 - December 2019).

Ted Woosley, Master's Thesis Committee Member. (August 2016 - December 2019).

Garett Scitern, Master's Non-Thesis Committee Member. (May 2018 - May 2019).

Leobardo Diosdado Murillo, Master's Non-Thesis Committee Member, Personal Financial Planning. (January 2018 - May 2019).

Ethan Sabala, Master's Thesis Committee Member, Agricultural & Applied Economics. (May 2017 - May 2019).

Huiying Chen, Graduate Dean's Representative, Economics. (August 2018).

Yan Luo, Graduate Dean's Representative, Economics. (May 2018).

Jayci D. Cave, Master's Thesis Committee Member, "Analysis of the Impact the Round Bale Harvesting Technology on Optimal Gin Industry Structure on the Texas High Plains," Agricultural & Applied Economics. (September 2014 - May 2018).

Eric Asare, Dissertation Defense Committee Member, "The Economics of Precision Agricultural Adoption in the Southern U.S.," Agricultural & Applied Economics. (September 2014 - December 2017).

Ximena Paz Portal, Master's Thesis Committee Member, "The Effects of Quinoa's Price Changes in the Welfare of Bolivian Households," Agricultural & Applied Economics. (September 2015 - August 2017).

Lanlan Zhu, Graduate Dean's Representative, Economics. (May 2017).

Yanze li, Graduate Dean's Representative, Economics. (May 2017).

Karalyn L. Eaves, Master's Thesis Committee Member, "The Costs and Benefits of Yield and Minimum Income Insurance to Rural Agricultural Households in Ethiopia," Agricultural & Applied Economics. (September 2015 - May 2017).

Lauren Hamilton, Master's Non-Thesis Committee Member, Agricultural & Applied Economics. (September 2014 - May 2017).

K.V. Nirodha DeSilva, Dissertation Committee Chair, "Essays on Water Scarcity: Non-market Valuation and Climate Change Impacts," Agricultural & Applied Economics. (January 2012 - May 2016).

Praveen Sapkota, Master's Non-Thesis Committee Chair. (January 2012 - December 2014).

Ye Wang, Dissertation Committee Chair, "Two essays, "An Integrated Hydro-Economic Model of Groundwater Use" and "The Impact of the Intrinsic Value of Irrigation Water on Precision Agriculture Adoption in Texas"," Agricultural & Applied Economics. (September 2011 - December 2014).

Vicky Ma, Master's Thesis Committee Member. (2013).

Rachna Tewari, Dissertation Committee Member, "Three Essays on Climate Change," Agricultural & Applied Economics. (September 2010 - August 2013).

Tomas Resendiz, Master's Non-Thesis Committee Member, Agricultural & Applied Economics. (September 2011 - May 2013).

William Keeling, Master's Thesis Committee Member, "Cotton Profitability As Influenced by Cultivar, Irrigation and Nitrogen Level, and Harvesting System," Agricultural & Applied Economics. (September 2010 - December 2012).

Qizhi Wang, Dissertation Committee Member, "Modeling Upland Cotton Yield Distributions in Texas: An Evaluation of Cotton GRP and STAX Programs," Agricultural & Applied Economics. (September 2009 - December 2012).

Amanda A. Fowler, Master's Non-Thesis Committee Member, Plant & Soil Science. (June 2009 - December 2012).

Charles A. Faggard, Master's Non-Thesis Committee Member, Plant & Soil Science. (September 2008 - December 2012).

Milos Kustudija, Master's Thesis Committee Member, "Impact of the European Union's Irregular Demand of Grain Sorghum on Grain Sorghum International Trade," Agricultural & Applied Economics. (January 2011 - August 2012).

Sanja S. Zivkovic, Master's Thesis Committee Member, "Carbon Sequestration and Carbon Management Policy Effects on Production Agriculture in the Texas High Plains," Agricultural & Applied Economics. (January 2011 - August 2012).

James Hodgson, Master's Non-Thesis Committee Member, Plant & Soil Science. (2010 - August 2012).

Amelia Sidumo, Dissertation Committee Member, "Ecological Studies of Maize Production Under Limited Irrigation Levels," Plant & Soil Science. (September 2008 - August 2012).

Kelly Y. Lange, Dissertation Committee Member, "Succession in Multi-generational Family Farm Businesses," Agricultural & Applied Economics. (September 2008 - August 2012).

Amanda Allworth, Master's Non-Thesis Committee Member, Plant & Soil Science. (September 2010 - May 2012).

Chersty Harper, Master's Non-Thesis Committee Member, Plant & Soil Science. (September 2010 - May 2012).

Xiao Feng, Master's Non-Thesis Committee Member, Agricultural & Applied Economics. (September 2010 - May 2012).

Jonathaniel Principe, Dissertation Committee Member, "Optimal Groundwater Use and Dryland Adoption Utilizing the Hotelling Framework in the Southern High Plains," Agricultural & Applied Economics. (January 2008 - May 2012).

Tyler J. Cowie, Master's Non-Thesis Committee Member, Agricultural & Applied Economics. (September 2010 - December 2011).

Shiliang Zhao, Dissertation Committee Chair, "A Random-Coefficients Discrete-Choice Model of Crop Choice and Irrigation Technology Adoption in Texas High Plains," Agricultural & Applied Economics. (September 2007 - December 2011).

Ye Wang, Master's Thesis Committee Chair, "The Impact of Nonfarm Activities on Agricultural Productivity in Rural China," Agricultural & Applied Economics. (September 2009 - May 2011).

Daniel K. Pate, Master's Thesis Committee Member, "Economic Evaluation of Winegrape Contracts, Risk Sharing, and Implications for the Future of the Industry," Agricultural & Applied Economics. (September 2009 - May 2011).

Shyam S. Nair, Dissertation Committee Chair, "Three Essays on the Economics of Precision Agriculture in Cotton Production," Agricultural & Applied Economics. (January 2009 - May 2011).

Xiaolan Liu, Dissertation Committee Member, "The Economic Perspectives of Renewable Energy from Agricultural Waste on the Southern Plains of Texas," Agricultural & Applied Economics. (September 2008 - August 2010).

Rohit Singla, Dissertation Committee Member, "Efficient Refuge Policies for Bt Cotton in India," Agricultural Education & Communications. (September 2005 - August 2010).

Diwash Neupane, Doctoral Advisory Committee Co-Chair, "The Impacts of Water and Nitrogen Use on Cotton Lint Yield and Quality: An Econometric Analysis," Agricultural & Applied Economics. (January 2008 - May 2010).

Miaomiao Wang, Dissertation Committee Member, "Stimulative Policies for a Dynamic Network of Bioenergy Researchers: Identifying Strategic Collaborations," Agricultural & Applied Economics. (September 2008 - December 2009).

Bing Liu, Master's Thesis Committee Member, "Grain Sorghum International Trade: U.S. - Mexico Simulation and Estimation Model," Agricultural & Applied Economics. (September 2007 - August 2009).

Margil G. Funtanilla, Master's Thesis Committee Member, "An Evaluation of the Organic Cotton Market Opportunity," Agricultural & Applied Economics. (September 2007 - August 2009).

Erin Wheeler, Dissertation Committee Member, "Water Policy Alternatives for the Southern Ogallala Aquifer: Economic and Hydrologic Implications," Architecture. (September 2005 - May 2008).

## RESEARCH

### Published Intellectual Contributions

#### Abstract

Alcantara, R. T., Wang, C., Guo, W., Johnson, P., Che, Y. (2025). *An Economic Analysis of Climate Resilience of Irrigated Cotton-Based Cropping Systems in the Texas High Plains Region*. National Cotton Council.

Guo, W., Ghimire, B., Alcantara, R., Wang, C., Ritchie, G., Lege, K. (2024). A DSSAT-based framework for simulating resilience of cropping systems under climate change. *ASA, CSSA, SSSA International Annual Meeting*. San Antonio, Texas:.

Karn, R., Guo, W., Adedeji, O., Lewis, K., Deb, S., Ritchie, G., Wang, C. (2023). *Estimation of canopy nitrogen content in dryland cotton from Sentinel-2 Images*. New Orleans, LA: Beltwide Cotton Conference.

Karn, R., Guo, W., Lewis, K., Deb, S., Ritchie, G., Wang, C. (2022). *Optimizing Nitrogen Management in Dryland Cotton using Precision Agriculture Technologies in the Southern High Plains*. San Antonio, TX: National Cotton Council.

- Neupane, J., Wang, C., Guo, W. (2020). *Spatial and temporal variability of cotton yield and profit as affected by topography and soil properties at the field-Scale*. Madison, WI: ASA-SSSA-CSSA.
- Lange, K., Johnson, J., Johnson, P., Hudson, M., Wang, C. (2013). *Intergenerational Management Transfers in Family Farm Businesses* (vol. 2013). Southern Agricultural Economics Association Proceedings.
- Sivankutty Nair, S., Wang, C., Maas, S., Knight, T., Segarra, E., Johnson, P., Mauget, S. (2013). *Managing Weather Risk for Cotton in Texas High Plains with Optimal Temporal Allocation of Irrigation Water*. AAEA - CAES Annual Conference.
- Sivankutty Nair, S., Maas, S., Wang, C., Segarra, E., Johnson, P. (2013). *Optimal Irrigation Water Allocation for Deficit Irrigated Cotton*. UCOWR/NIWR Conference, Sustaining Water Resources and Ecological Functions in Changing Environments.
- Wang, C., Pan, S., Qin, L. (2012). *Effects of Off-Farm Work on Farm Household Production Choices* (vol. 2012). International Association of Agricultural Economists Conference Proceedings.
- He, Z., Wang, C., Yu, Y., Trela, B. (2012). *Price Analysis of Imported Wines from France, the U.S.A., and Australia in China* (vol. 2012). Conference of American Association of Wine Economics Proceedings.
- Nair, S., Wang, C., Segarra, E., Belasco, E., Velandia, M., Reeves, J. (2011). *Adoption of Variability Detection and Variable Rate Application Technologies by Cotton Farmers in Southern United States* (vol. 2011). American Agricultural and Applied Economics & Northeastern Agricultural and Resource Economics Association Joint Annual Meeting.
- Nair, S. S., Wang, C., Segarra, E., Belasco, E. J., V, M., Reeves, J. (2011). *Adoption of Variability Detection and Variable Rate Application Technologies by Cotton Farmers in Southern United States*. American Journal of Agricultural Economics.
- Pate, D. K., Wang, C., Johnson, J., Hellman, E. (2011). *Economic Evaluation of Winegrape Contracts* (vol. 2011). American Journal of Enology and Viticulture.
- Zhao, S., Wang, C., Bordovsky, J., Sheng, Z., Gastelum, J. (2011). *Estimating Spatial Water Demand Distributions in the Texas High Plains* (vol. 2011). Universities Council on Water Resources Conference Proceedings.
- Zhao, S., Wang, C., Bordovsky, J., Sheng, Z., Gastelum, J. R. (2011). *Estimating the Spatial Distribution of Groundwater Demand in the Texas High Plains* (vol. 2011). American Agricultural and Applied Economics & Northeastern Agricultural and Resource Economics Association Joint Annual Meeting.
- Gastelum, J., Zheng, Z., Wang, C., Zhao, S. (2011). *Evaluation of Well Heads by Using Different Approaches: Well Package, Multi-Node Well Package, and Analytical Solution* (vol. 2011). Proceedings of the 2011 World Environmental and Water Resources Congress, American Society of Civil Engineering Conference.
- Sheng, Z., Rejesus, R., Wang, C., Zhao, S., Johnson, J., Segarra, E., Bordovsky, J. (2011). *Historic Pumping and Future Desired Conditions of the Stressed Aquifers within a Groundwater Management Area in Texas* (vol. 2011). National Research Institute/AFRI Water Project Directors Meeting.

Wang, Y., Wang, C., Pan, S. (2011). *The Impact of Nonfarm Activities on Agricultural Productivity in Rural China* (vol. 2011). American Agricultural and Applied Economics & Northeastern Agricultural and Resource Economics Association Joint Annual Meeting.

Pan, S., Wang, C., Hudson, M. (2010). *Is Investment in Agricultural Research a Good Substitute for Price Support in U.S. Cotton* (vol. 2010). American Applied Economics Association Conference.

Lange, K., Johnson, J., Wang, C. (2010). *Minimization of Virtual Water Exports from Texas: Multiple-Objective Optimization* (1st ed., vol. 16). Universities Council on Water Resources Conference Proceedings.

#### **Book, Chapter in Non-Scholarly Book-New**

Sheng, Z., Wang, C., Gastelum, J., Zhao, S., Bordovsky, J. (2013). Desired Future Conditions (DVCs) for Groundwater Availability in the High Plains Aquifer System. In R. Lal and B.A. Stewart (Ed.), *Soil Water and Agronomic Productivity* (pp. Chapter 4). Boca Raton, FL: CRC Press.

#### **Conference Proceeding**

Asare, E., Segarra, E., Wang, C., Misra, A. (2017). *Modeling the Choice of Precision Agriculture Information Source by Cotton Producers in the Southern USA*. Beltwide Cotton Conference 2017.

Nair, S., Wang, C., Segarra, E., Johnson, J., Rejesus, R. (2015). *Impact of Variable Rate Technology Adoption on Cotton Yield in Texas*. Beltwide Cotton Conference.

Keeling, W., Johnson, J., Wang, C., Boman, R. (2013). *Cotton Profitability as Influenced by Cultivar, Irrigation and Nitrogen Level, and Harvesting System* (vol. 2013). Proceedings of the 2013 Beltwide Cotton Conferences.

Sivankutty Nair, S., Wang, C., Segarra, E., Johnson, J., Velandia, M. (2013). *Impact of Efficient Irrigation Technologies on Precision Agriculture Adoption in Texas* (vol. 2013). Proceedings of the 2013 Beltwide Cotton Conferences.

Wang, C., Sheng, Z., Zhao, S., Liu, Y., Bordovsky, J., Johnson, J., Segarra, E. (2012). *A Hydro-Econometric Analysis of Producer Water Use and Aquifer Hydrology in Texas High Plains* (vol. 2012). Proceedings of the Land Grant/Sea Grant National Water Conference.

Lange, K., Johnson, J., Johnson, P., Hudson, M., Wang, C., Gustafson, A. (2012). *A Qualitative Investigation of Farm Succession in Texas* (vol. 2012). Western Agricultural Economics Association Annual Meeting.

Zhao, S., Wang, C., Sheng, Z., Bordovsky, J. (2012). *A Systems Approach to Groundwater Resource Management and Agricultural Development* (vol. 2012). Wuhan, China: Proceedings of the International Conference on Climate changes, Recycling of Agricultural Sources, Technology Improvement and Agriculture Management.

Sivankutty Nair, S., Wang, C., Segarra, E., Johnson, J., Rejesus, R. M., Marraa, M. C. (2012). *The Impact of Adoption of Precision Farming Technologies on Cotton Yield in Texas* (vol. 2012). Proceedings of the 2012 Beltwide Cotton Conferences.

Sivankutty Nair, S., Wang, C., Segarra, E., Belasco, E., Reeves, J., Velandia, M. (2011). *A Multinomial Logit Analysis of the Adoption of Cotton Precision Farming Technologies* (vol. 2011). Proceedings of the 2011 Beltwide Cotton Conferences.

Sivankutty Nair, S., Wang, C., Maas, S., Segarra, E. (2011). *Optimal Spatial and Temporal Allocation of Irrigation Water for Cotton in Texas High Plains* (vol. 2011). Proceedings of the 2011 Beltwide Cotton Conferences.

Pate, D. K., Johnson, J., Hellman, E., Wang, C. (2011). *Risk Sharing Through Winegrape Contracts*. 2011 Joint Annual Meeting of the Canadian Agricultural Economics Society and Western Agricultural Economics Association.

Funtanilla, M., Lyford, C., Wang, C. (2009). *An Evaluation of the Organic Cotton Marketing Opportunity*. Milwaukee, WI: American Agricultural and Applied Economics Association.

#### **Journal Article, Academic Journal**

Kang, Q., Hudson, M., Carpio, C., Garcia, M., Wang, C., Boonsaeng, T. (2024). Chinese Consumers' Preferences for Imported Beef Products. *Agribusiness: An International Journal*.

Neupane, J., Wang, C., Ritchie, G., Zhang, F., Deb, S., Guo, W. (2024). Spatial and temporal patterns of cotton yield and profitability in management zones based on soil properties and topography. *Precision Agriculture*, 25(4), 1-24.

Kang, Q., Carpio, C., Wang, C., Tang, Z. The Impacts of Caterpillar Fungus Income on Grazing Pressure in Tibetan Regions: A Tale of Income Diversification. *China Agricultural Economic Review*.

Garcia Chaclan, M., Carpio, C., Hudson, M., Boonsaeng, T., Wang, C. (2023). Mexican Consumers' Perceptions and Preferences for US and Texas Beef. *Agribusiness: An International Journal*.

Liu, Y., Feng, Q., Wang, C., Tang, Z. (2018). A risk-based model for grassland management using MODIS data: The case of Gannan region, China. *Land Use Policy*, 72, 461-469.

Fan, Y., Wang, C., Nan, Z. (2018). Determining Water Use Efficiency of Wheat and Cotton: A Meta-Regression Analysis. *Agricultural Water Management*(199), 48-60.

Wang, C., Tang, Z., Nan, Z. (2018). The Caterpillar Fungus Boom on the Tibetan Plateau: Curse or Blessing?". *China Economic Review*, 47(C), 65-76.

Liu, Y., Wang, C., Tang, Z., Nan, Z. (2018). Will farmland transfer reduce grain acreage? Evidence from Gansu province, China. *China Agricultural Economic Review*.

Liu, Y., Wang, C., Tang, Z. (2017). Farmland Rental and Productivity of Wheat and Maize: An Empirical Study in Gansu, China. *Sustainability*, 9(10), 1678.

Qin, L., Wang, C. (2016). Labor Employment and Social Security in China's First Village of Reforming and Anhui Province. *China Agricultural Economic Review*, 711-715.

Rada, N., Wang, C., Qin, L. (2016). Subsidy or Market Reform? Rethinking China's Farm Consolidation Strategy. *Food Policy*, 57, 93-103.



- Lange, K., Johnson, J., Johnson, P., Hudson, M., Wang, C., Gustafson, A. (2016). Farm Succession in Texas: A Qualitative Approach. *International Journal of Agricultural Management*, 5(3), 58-69.
- Qin, L., Chen, C., Liu, X., Wang, C., Jian, Z. (2015). Health Status and Earnings of Migrant Workers from Rural China. *China & World Economy*, 23(2), 84-99.
- Lange, K., Johnson, J., Johnson, P., Hudson, M., Wang, C., Gustafson, A. (2015). Intergenerational Transfers of Managerial Control in U.S. Family Farm Businesses. *American Journal of Experimental Agriculture*, 9(6), 1-12.
- Fan, Y., Wang, C., Nan, Z. (2014). Comparative Evaluation of Crop Water Use Efficiency, Economic Analysis, and Net Household Profit Simulation in Arid Northwest China. *Agricultural Water Management*, 146, 335-345.
- Tewari, R., Johnson, J., Patterson, D., Hudson, M., Wang, C. (2014). Global Warming Perception and Willingness to Pay in High Carbon Emitting Nations. *Asian Journal of Research in Social Sciences and Humanities*, 4, 287-305.
- Tewari, R., Johnson, J., Hudson, M., Wang, C., Patterson, D. (2013). Does Climatic Variability Influence Agricultural Land Prices Under Differing Uses? The Texas High Plains Case. *Natural Resources*, 4, 506-513.
- Sivankutty Nair, S., Johnson, J., Wang, C. (2013). Efficiency of Irrigation Water Use: A Review from the Perspectives of Multiple Disciplines. *Agronomy Journal*, 105(2), 351-363.
- Sivankutty Nair, S., Maas, S., Wang, C., Mauget, S. (2013). Optimal Field Partitioning for Center-Pivot-Irrigated Cotton in the Texas High Plains. *Agronomy Journal*, 105, 124-133.
- Qin, L., Wang, C., Jiang, Z. (2013). Return to Education in China's Labor Market. *African Journal of Business Management*, 7(25), 2489-2494.
- Wang, C., Sivankutty Nair, S. (2013). The Economics of Deficit Irrigation. *Natural Resource Modeling*, 26(3), 331-361.
- Qin, L., Yu, S., Jiang, Z., Wang, C. (2013). The Impact of Health on Off-farm Income of China's Migrant Workers. *Agricultural Economics*, 59(2), 90-99.
- Fare, R., Wang, C., Seavert, C. F. (2012). A Model of Site-Specific Nutrient Management. *Applied Economics*, 44(33), 4369-4380.
- Qin, L., Pan, S., Wang, C., Jiang, Z. (2012). Adverse Selection in China's New Rural Cooperative Medical Scheme: A Case Study in Suburb Beijing. *Agricultural Economic Review*, 2012(1), 69-83.
- Rada, N., Wang, C., Qin, L. (2012). Hired-Labor Demand on Chinese Farms: Evidence from Household Survey Data. *Journal of Agribusiness in Developing and Emerging Economies*, 2012(2), 115-129.
- Sivankutty Nair, S., Wang, C., Segarra, E., Johnson, J., Rejesus, R. (2012). Variable Rate Technology and Cotton Yield Response in Texas. *Journal of Agricultural Science and Technology*, B 2, 1034-1043.

Sivankutty Nair, S., Wang, C., Segarra, E., Belasco, E., Larson, J., Velandia, M., Lambert, D., Reeves, J. (2011). Adoption of Precision Agricultural Practices for Cotton in Southern United States. *Journal of Agribusiness*, 29(2), 221-241.

Wang, C., Pan, S., Qin, L. (2011). Impacts of Off-Farm Employment on Farm Production in Rural China. *Empirical Economics Review*, 2(1), 1-19.

Wang, C., Segarra, E. (2011). The Economics of Commonly Owned Groundwater When User Demand is Perfectly Inelastic. *Journal of Agricultural and Resource Economics*, 36(1), 95-120.

Yu, Y., Wang, C. (2011). The Market for Contemporary Chinese Paintings: A First Look. *Empirical Economics Letters*, 10(7), 661-668.

Wang, C., Xia, Y., Buccola, S. (2009). Public Investment and Industry Incentives in Life Science Research. *American Journal of Agricultural Economics*, 91(2), 374-388.

Fare, R., Wang, C., Schubert, A. M., Bronson, K., Johnson, J. (2009). Site-specific management of limiting nutrients in peanut (*Arachis hypogaea*) on the Texas High Plains. *Precision Agriculture*, 10(4), 331-341.

## Manuscript

Zho, S., Wang, C., Segarra, E. (2010). *A Non-parametric Analysis of Multidimensional Quality Attributes and Input Use in Cotton* (pp. CD-ROM). Proceedings of the 2010 Beltwide Cotton Conferences, Cotton Economics and Marketing Conference Section.

Nair, S., Wang, C., Segarra, E. (2010). *Cotton Precision Farming Technology Adoption in Texas* (pp. CD-ROM). Proceedings of the 2010 Beltwide Cotton Conferences, Cotton Economics and Marketing Conference Section.

Roberts, R. K., Mooney, D. F., English, B. C., Larson, J. A., Lambert, D. M., Velandia, M., Larkin, S. L., Marra, M. C., Rejesus, R., Martin, S. W., Paxton, K. W., Mishra, A., Wang, C., Segarra, E., Reeves, J. M. (2010). *Status of Cotton Precision Farming in Twelve States* (pp. CD-ROM). Proceedings of the 2010 Beltwide Cotton Conferences, Cotton Economics and Marketing Conference Section.

English, B. C., Mooney, D. F., Velandia, M., Larson, J. A., Roberts, R. K., Lambert, D. M., Larkin, S. L., Marra, M. C., Rejesus, R., Martin, S. W., Paxton, K. W., Mishra, A., Wang, C., Segarra, E., Reeves, J. M. (2010). *Trends in Cotton Precision Farming Adoption in Twelve States; 2000-2008* (pp. CD-ROM). Proceedings of the 2010 Beltwide Cotton Conferences, Cotton Economics and Marketing Conference Section.

Wang, C., Segarra, E. (2009). *Optimal Groundwater Extraction under the Linear Response and Plateau Technology* (pp. in press). Proceedings of the 27th International Conference of Agricultural Economists.

## Technical Report

Roberts, R. K., English, B. C., Larson, J. A., Lambert, D. M., Velandia, M., Boyer, C. N., Buschermohle, M., Zhou, X., Edge, B., W#atcharaanantapong, P., Larkin, S. R., Sanewich, B., Mishra, A., Paudel, K., Khanal, A. R., Falconer, L. L., Martin, S. W., Rejesus, R. M., Marra, M. C., Kotsiri, S., Wang, C., Segarra, E., Nair, S., Wang, Y., Reeves, J. M. (2015). *Economics of Precision Farming Working Group: University of Tennessee, University of*

- Florida, Louisiana State University, and Texas Tech University. 2015 Final Report for Cotton Incorporated.
- Zhou, X., English, B. C., Boyer, C. N., Roberts, R. K., Larson, J. A., Lambert, D. M., Velandia, M., Falconer, L. L., Martin, S. W., Larkin, S. L., Paudel, K. P., Mishra, A. K., Rejesus, R. M., Wang, C., Segarra, E., Reeves, J. M. (2015). Precision Farming by Cotton Producers in Fourteen Southern States: Results from the 2013 Souther Cotton Farm Survey. *Research Series 15-001, Dept. of Agricultural and Resource Economics, University of Tennessee.* Knoxville, TN:.
- Nair, S. S., Wang, C., Segarra, E., Reeves, J. M. (2010). *Adoption of Precision Agriculture Practices by Cotton Growers in Texas* (pp. 44-48). Economics of Precision Farming Working Group: Florida, Louisiana, Mississippi, North Carolina, Tennessee, and Texas. 2009 Annual Report for Cotton Incorporated.
- Roberts, R. K., Mooney, D. F., English, B. C., Larson, J. A., Lambert, D. M., Velandia, M., Harper, D., Larkin, S. L., Rejesus, R. M., Marra, M. C., Martin, S. W., Shi, S., Paxton, K. W., Mishra, A., Niu, H., Wang, C., Segarra, E., Nair, S. S., Reeves, J. M. (2010). *Economics of Precision Farming Working Group: Florida, Louisiana, Mississippi, North Carolina, Tennessee, and Texas* (pp. 50 pgs). 2009 Annual Report for Cotton Incorporated.
- Roberts, R. K., Mooney, K. F., English, B. C., Larson, J. A., Lambert, D. M., Velandia, M., Harper, D., Larkin, S. L., Rejesus, R. M., Marra, M. C., Martin, S. W., Shi, S., Paxton, K. W., Mishra, A., Niu, H., Wang, C., Segarra, E., Nair, S. S., Reeves, J. M. (2010). *Economics of Precision Farming Working Group: Florida, Louisiana, Mississippi, North Carolina, Tennessee, and Texas* (pp. 1). 2009 Research Summary Report for Cotton Incorporated, Economics of Precision Farming Working Group: Florida, Louisiana, Mississippi, North Carolina, Tennessee, and Texas. 2009 Annual Report for Cotton Incorporated.
- Mooney, D. F., English, B. C., Velandia, M., Larson, J. A., Roberts, R. K., Lambert, D. M., Larkin, S. L., Rejesus, R. M., Marra, M. C., Martin, S. W., Paxton, K. W., Mishra, A., Wang, C., Segarra, E., Reeves, J. M. (2010). *Status of Cotton Precision Farming in Twelve Southern States, pg. 2 -11. In Economics of Precision Farming Working Group: Florida, Louisiana, Mississippi, North Carolina, Tennessee, and Texas.* 2009 Annual Report for Cotton Incorporated.
- Mooney, D. F., Roberts, R. K., English, B. C., Larson, J. A., Lambert, D. M., Velandia, M., Larkin, S. L., Rejesus, R. M., Marra, M. C., Martin, S. W., Paxton, K. W., Mishra, A., Wang, C., Segarra, E., Reeves, J. M. (2010). *Trends in Cotton Precision Farming: 2000-2008* (pp. 12-19). Economics of Precision Farming Working Group: Florida, Louisiana, Mississippi, North Carolina, Tennessee, and Texas. 2009 Annual Report for Cotton Incorporated.

## Presentations Given

- Mamani Escobar, B. (Presenter & Author), Carpio, C. (Author Only), Hudson, M. (Author Only), Wang, C. (Author Only), Southern Agricultural Economics Association Annual Meeting, "Willingness to Pay for Lettuce Agronomically Biofortified with Vitamin C: A Semi-Hypothetical Choice Experiment," Southern Agricultural Economics Association, Irving, TX. (February 2025).
- Alcantara, R., Carpio, C., Hudson, M., Wang, C., Ghose, T. K., Naing, S., Rezoanul Hoque, M., Southern Agricultural Economics Association Annual Meeting, "U.S. CONSUMERS' PERCEPTIONS AND PREFERENCES FOR BIO-BASED PLASTIC SHOPPING BAGS," Atlanta, GA. (February 2024).

Garcia Chaclan, M. (Presenter & Author), Carpio, C. (Author Only), Hudson, M. (Author Only), Boonsaeng, T. (Author Only), Wang, C. (Author Only), Kang, Q. (Author Only), Davis College Ag Week Congressional Luncheon, "Steaks Beyond Borders: From US Pastures to Global Platters- Perceptions of Beef Quality in Mexico/China by Country of Origin," Lubbock, TX. (September 2023).

Garcia Chaclan, M. (Presenter & Author), Carpio, C. (Author Only), Hudson, M. (Author Only), Boonsaeng, T. (Author Only), Wang, C. (Author Only), Kang, Q. (Author Only), Agricultural and Applied Economics Association Annual Meetings, "The effect of information about a complex agricultural supply chain on consumers: The case of beef demand in Mexico," Washington, DC. (July 2023).

Kang, Q. (Presenter & Author), Carpio, C. (Author Only), Wang, C. (Author Only), Boonsaeng, T. (Author Only), Hudson, M., 2023 Southern Agricultural Economics Association Annual Meetings, "Disentangling Signaling and Budgetary Effects of Price in Consumer Choices," Southern Agricultural Economics Association, Oklahoma City, OK. (February 2023).

Karn, R., Guo, W., Lewis, K., Ritchie, G., Deb, S., Wang, C., ASA, CSSA, SSSA International Annual Meeting, "Response of Cotton Fiber-Quality to Nitrogen Rates, Soil, and Topographic Properties," ASA, CSSA, and SSSA, Baltimore, MD. (November 2022).

Kang, Q. (Presenter & Author), Wang, C. (Author Only), Carpio, C. (Author Only), Boonsaeng, T. (Author Only), Hudson, M. (Author Only), Southern Agricultural Economics Association Annual Meetings, "Is There a Market for Texas Branded Beef Steak in China?," New Orleans, LA. (February 2022).

Karn, R., Guo, W., Lewis, K., Deb, S., Ritchie, G., Wang, C., Beltwide Cotton Conference, "Optimizing Nitrogen Management in Dryland Cotton using Precision Agriculture Technologies in the Southern High Plains," National Cotton Council, San Antonio, TX. (January 2022).

Kang, Q. (Presenter & Author), Carpio, C. (Author Only), Garcia, M. (Author Only), Wang, C., Boonsaeng, T., Hudson, M., Agricultural and Applied Economics Association Annual Meetings, "Chinese Consumers' Preferences for Imported Beef Products: Does the Type of Cut Matter?," American Agricultural Economics Association, Austin, TX. (August 1, 2021).

Jayaramu, N. (Presenter & Author), Wang, C., 2020 WAEA Annual Meeting, "Designing Index-based Livestock insurance for pastoral households in Tibetan Plateau," Western Agricultural Economics Association, Santa Fe. (June 2020).

Garcia, M. (Presenter & Author), Carpio, C. (Author Only), Boonsaeng, T. (Author Only), Hudson, M. (Author Only), Wang, C. (Author Only), 5th Hispanic/Latinx Research and Creativity Symposium, "Mexican Consumers' Preferences for U.S. and Texas Beef," Texas Tech University, Lubbock, TX. (April 2020).

Garcia, M. (Presenter & Author), Carpio, C. (Author Only), Boonsaeng, T. (Author Only), Hudson, M. (Author Only), Wang, C. (Author Only), 19th Annual Graduate Research Poster Competition, "Mexican Consumers' Preferences for U.S. and Texas Beef," Texas Tech University, Lubbock, TX. (March 2020).

Garcia, M., Carpio, C., Boonsaeng, T., Hudson, M., Wang, C., Annual Meetings of the Southern Agricultural Economics Association, "Mexican Consumers' Preferences for U.S. and Texas Beef," Southern Agricultural Economics Association, Louisville, KY. (February 2020).

- Paz, X., Carpio, C. (Presenter & Author), Malaga, J., Wang, C., Annual Meetings of the Southern Agricultural Economics Association, "The Effects of Quinoa's Price Change in the Welfare of Bolivian Households," Southern Agricultural Economics Association, Jacksonville, FL. (February 2018).
- Wang, C. (Presenter & Author), "The Tibetan Gold Rush and its Impacts on the Tibetan Pastoral Society," Lanzhou University, Lanzhou, China. (December 28, 2016).
- Wang, C., "The Tibetan Gold Rush and its Impacts on the Tibetan Pastoral Society," Chongqing University of Science and Technology, Chongqing, China. (December 20, 2016).
- Wang, C. (Presenter & Author), "The Tibetan Gold Rush and its Impacts on the Tibetan Pastoral Society," Huazhong Agriculture University, Wuhan, China. (December 17, 2016).
- Wang, C. (Presenter & Author), "The Economic Models of Renewable and Nonrenewable Resources," Huazhong Agriculture University, Wuhan, China. (December 12, 2016).
- Fan, Y. (Presenter & Author), Wang, C. (Author Only), The 2016 AAEA Annual Meeting, "Determining Water Use Efficiency for Wheat and Cotton: A Meta-Regression Analysis," Boston, MA. (August 2, 2016).
- Wang, C., School of Economics, "Externalities in Environmental and Resource Economics," Fujian Normal University, Fujian, China. (March 9, 2016).
- Wang, C., College of Earth Environmental Sciences, "Externalities in Environmental and Resource Economics," Lanzhou University, Lanzhou, China. (January 11, 2016).
- Wang, C., "Environmental Pollution Control: Theory and Practice," School of Economics and Social Studies, Chongqing University of Science and Technology, Chongqing, China. (2015).
- Wang, C., Conference of Natural Resource Management and Public Policy, "Property Rights, Scale Economies, and Grassland Degradation," College of Public Administration, Wuhan, China. (December 12, 2015).
- Wang, C., "Natural Resource Economics," Lanzhou University, Lanzhou, China. (June 2015).
- Wang, C., Rada, N., "Assessing China's Call to Increase the Size of its Grain Farms," Lanzhou University. (2014).
- Rada, N., Wang, C., "Assessing China's Call to Increase the Size of its Grain Farms," Center for Chinese Agricultural Policy, Chinese Academy of Sciences. (2014).
- Wang, C., Rada, N., "Assessing China's Call to Increase the Size of its Grain Farms," Huazhong Agriculture University, Wuhan, China. (June 2014).
- Lange, K., Johnson, J., Johnson, P., Hudson, M., Wang, C., Gustafson, A., Southern Agricultural Economics Association Meetings-Selected Paper, "Intergenerational Management Transfers in Family Farm Businesses," Southern Agricultural Economics Association, Orlando, Florida. (February 4, 2013).
- Lange, K. Y. (Presenter & Author), Johnson, J. (Author Only), Johnson, P. (Author Only), Hudson, M. (Author Only), Wang, C. (Author Only), Gustafson, A. (Author Only), Western Agricultural Economics Association Annual Meetings, "A Qualitative Investigation of Farm Succession in Texas," Western Agricultural Economics Association, Park City, UT. (June 22, 2012).

- Lange, K., Johnson, J., Johnson, P., Hudson, M., Wang, C., Gustafson, A., Western Agricultural Economics Association Meetings-Selected Presentation, "A Qualitative Investigation of Farm Succession in Texas," Western Agricultural Economics Association, Park City, Utah. (June 22, 2012).
- Pan, S., Wang, C., Hudson, D., 2011 CERI/CIRC Annual Research and Outreach Symposium, "Agricultural Research and Income Support in the U.S. Cotton Industry," Lubbock, Texas. (2011).
- Sivankutty Nair, S., Wang, C., 2011 CERI/CIRC Annual Research and Outreach Symposium, "Spatial Allocation of Irrigation Water in Center-Pivot Irrigation," Lubbock, Texas. (2011).
- Sheng, Z., Wang, C., Zhao, S., Gastelum, J., 2011 Consortium for Irrigation Research and Education meeting, "A Hydro-Econometric Analysis of Producer Water Use and Aquifer Hydrology in the Texas High Plains," Lubbock, Texas. (2011).
- Wang, C., Nair, S., 2011 Canadian Society of Agricultural Economics and Western Agricultural Economics Association Joint Meeting, "Optimal Irrigation Intensity and Extensity under Deficit Water Supply," Banff, Canada. (June 2011).
- Wang, C., 2011 Consortium for Irrigation Research and Education, "Estimating Irrigation Water Demand in the Texas High Plains." (April 2011).
- Nair, S. S., Wang, C., Mass, S., Segarra, E., Cotton Economics Research Institute/International Cotton Research Center Annual Research and Outreach Symposium, "Spatial Allocation of Irrigation Water in Center-Pivot Irrigation," Cotton Economics Research Institute, Lubbock, TX. (March 2011).
- Wang, C., Cotton Economic Research Institute/International Cotton Research Center Annual Research and Outreach Symposium, "Optimal Input Use and Lint Attributes in the Texas High Plains," Lubbock, Texas. (2010).
- Wang, C., Segarra, E., Departmental Seminar, "Nonrenewable Groundwater Extraction when Irrigation Water Demand is Perfectly Inelastic," TTU/AAEC. (2010).
- Pan, S. (Author Only), Wang, C. (Presenter & Author), Hudson, M. (Author Only), 2010 American Applied Economics Association Meetings, "Is Investment in Agricultural Research a Good Substitute for Price Support in US Cotton," American Applied Economics Association, Denver, CO. (July 2010).
- Lange, K., Wang, C., Johnson, J., Universities Council on Water Resources Meetings-Selected Presentation, "Minimization of Virtual Water Exports from Texas: Multiple-Objective Optimization," Universities Council on Water Resources, Seattle, Washington. (July 14, 2010).
- Zhao, S. (Author Only), Diwash, N. (Author Only), Wang, C. (Presenter & Author), Segarra, E. (Author Only), Bronson, K. (Author Only), Cotton Economic Research Institute/International Cotton Research Center Annual Research and Outreach Symposium, "Optimal Input Use and Lint Attributes in the Texas High Plains," Texas Tech University, Lubbock, TX. (April 2010).
- Funtanilla, M. (Author Only), Lyford, C. (Presenter & Author), Wang, C., 2009 American Agricultural and Applied Economics Association AAEA & ACCI Joint Annual Meeting, "An Evaluation of the Organic Cotton Marketing Opportunity," AAEA, Milwaukee, Wisconsin. (July 2009).

Wang, C. (Presenter & Author), Segarra, E. (Author Only), 27th International Association of Agricultural Economists Conference, "Optimal Groundwater Extraction under the Linear Response and Plateau Technology," Beijing, China. (July 2009).

Yu, Y., Wang, C., "The Market for Chinese Contemporary Paintings: A First Look," TTU/Ralws College of Business. (2008).

Wang, C., The 2008 Consortium for Irrigation Research and Education annual meeting, "Crop Choice and Irrigation Technology Adoption: The Texas High Plains," Uvalde, Texas. (May 2008).

## **Contracts, Grants and Sponsored Research**

### **Awarded**

Guo, W. (Lead Principal Investigator), Sheng, S. (Principal Investigator), Wang, C. (Principal Investigator), "Capacity Building for AI-driven Research and Education on UAS Applications in Precision Agriculture," Sponsored by USDA NIFA, Federal, \$749,999.00. (September 1, 2023 - August 31, 2026).

Guo, W., Ritchie, G., Wang, C., "Integrating a resilient cropping system and precision conservation for sustainable agriculture in a semi-arid region," Sponsored by USDA NIFA, Federal, \$300,000.00. (March 15, 2022 - March 14, 2025).

Simpson, C. (Lead Principal Investigator), Carpio, C. (Principal Investigator), Wang, C. (Principal Investigator), Singh, S. (Principal Investigator), Thompson, L. (Principal Investigator), Moustaid-Moussa, N. (Principal Investigator), "Science to Society and Back: Developing a Model for Innovative Food Products to go from Scientific Discovery to Consumer Using Biofortified Greens," Sponsored by TTU, College or University, \$250,000.00. (September 1, 2024 - Present).

Guo, W., Deb, S., Lewis, K., Ritchie, G., Wang, C., "Optimizing Nitrogen Management in Dryland Cotton using Precision Agriculture Technologies in the Southern High Plains," Sponsored by Cotton Inc (TSSC), Other Nonprofit Org, \$25,000.00. (January 2022 - December 2022).

Guo, W. (Lead Principal Investigator), Deb, S. (Principal Investigator), Lewis, K. (Principal Investigator), Ritchie, G. (Principal Investigator), Wang, C. (Principal Investigator), "Optimizing Nitrogen Management in Dryland Cotton using Precision Agriculture Technologies in the Southern High Plains," Sponsored by Cotton Inc (TSSC), Other Nonprofit Org, \$30,000.00. (January 1, 2021 - December 31, 2021).

Guo, W. (Lead Principal Investigator), Deb, S. (Principal Investigator), Lewis, K. (Principal Investigator), Ritchie, G. (Principal Investigator), Wang, C. (Principal Investigator), "Optimizing Nitrogen Management in Dryland Cotton using Precision Agriculture Technologies in the Southern High Plains," Sponsored by Cotton Inc (TSSC), Other Nonprofit Org, \$30,000.00. (January 1, 2021 - December 31, 2021).

Guo, W., Lewis, K., Ritchie, G., Deb, S., Wang, C., "Optimizing Nitrogen Management in Dryland Cotton using Precision Agriculture Technologies in the Southern High Plains," Sponsored by Cotton Incorporated, Other Nonprofit Org, \$30,000.00. (January 1, 2021 - December 31, 2021).

Boonsaeng, T., Carpio, C. (Lead Principal Investigator), Hudson, D., Wang, C., "Consumers' Perceptions and Preferences for U.S. and Texas Beef in International Markets," Sponsored

by Federal-State Marketing Improvement Program, Federal, \$145,740.00. (September 30, 2018 - September 29, 2020).

Wang, C., "Emergence of Institutions for Sustainable Production of the Caterpillar Fungus Resource on the Tibetan Plateau," Sponsored by Texas Tech University, College or University, \$3,500.00. (January 2017 - December 2017).

Wang, C. (Lead Principal Investigator), Segarra, E. (Principal Investigator), "Determine The Status Of Precision Farming Technology Adoption By Cotton Farmers In 12 States (Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, Missouri, North Carolina, South Carolina, Tennessee, Texas, And Virginia)," Sponsored by Cotton Incorporated, \$51,000.00. (January 1, 2009 - December 31, 2015).

Wang, C. (Lead Principal Investigator), Johnson, J. (Principal Investigator), Segarra, E. (Principal Investigator), Bordovsky, J. (Principal Investigator), Sheng, Z. (Principal Investigator), "A Hydro-Econometric Analysis of Producer Water Use and Aquifer Hydrology in the Texas High Plains," Sponsored by USDA-NIFA-AFRI, Federal, \$261,662.00. (September 1, 2009 - August 31, 2012).

Wang, C. (Lead Principal Investigator), Segarra, E. (Principal Investigator), Maas, S. (Principal Investigator), "Optimal Spatial and Temporal Allocation of Irrigation Water in Center-Pivot-Irrigated Cotton-Sorghum Production Systems," Sponsored by USDA, Federal, \$40,604.00. (September 1, 2010 - August 30, 2011).

### **Pending**

Guo, W. (Lead Principal Investigator), Ritchie, G. (Principal Investigator), Wang, C. (Principal Investigator), Che, Y. (Principal Investigator), "Assessing a cotton-sorghum cropping system for enhanced water use efficiency and agricultural resilience in the Texas High Plains," Sponsored by United States Department of Agriculture, Federal, \$600,000.00.

Kee, K. (Principal Investigator), Wang, C. (Principal Investigator), "DISES: Stakeholders-Driven Approach for Improving Resilience and Sustainability in Water-Stressed agricultural systems," Sponsored by National Science Foundation, Federal, \$527,547.00.

## **Intellectual Contributions in Submission**

### **Abstract**

Neupane, J., Guo, W., Wang, C. *Assessing profitability of variable rate irrigation management at landscape scale in the Southern High Plains*. Minneapolis, MN: International Society for Precision Agriculture.

### **Journal Article, Academic Journal**

Kang, Q., Carpio, C., Garcia Chaflan, M., Wang, C., Boonsaeng, T. Chinese Consumers' Preferences for Imported Beef Products. *Agricultural and Resource Economics Review*.

Neupane, J., Wang, C., Ritchie, G., Zhang, F., Deb, s., Guo, W. Spatial and Temporal Variability of Cotton Yield and Profitability in Eight Fields in the Southern High Plains. *Precision Agriculture*.

Eaves, K., Hudson, M., Wang, C., Lyford, C. An Analysis of the Potential Costs and Benefits of Yield and Minimum Income Insurance to Rural Agricultural Households in Ethiopia. *Journal of Agricultural and Resource Economics*.



## **Research in Progress**

"Agricultural patents in China" (On-Going). (December 2022 - Present).

"Ogallala Remote Sensing Project" (On-Going). (May 2020 - Present).

Develop machine learning models to study drivers of land and water use changes over time in the Southern Plains of Texas. The project is aimed to build a large dataset dating back to 1960's of satellite images and hydrologic well records.

"The Socio-Economic Survey of Tibetan Pastoral Households" (On-Going). (2016 - 2024).

## **SERVICE**

### **University Service**

Committee Member, China Taskforce, Office of International Affairs. (2014 - 2015).

### **College Service**

Committee Member, DAVIS College Graduate Programs Committee. (September 2024 - Present).

Committee Chair, CASNR Research and Graduate Studies. (September 2019 - August 2024).

Committee Member, CASNR Research and Graduate Studies Committee. (November 2018 - 2019).

Committee Member, ad hoc committee for the development of an operational guidelines addendum between Texas A&M Agrilife and Texas Tech University. (2013).

Committee Member, CASNR Outstanding Students Selection Committee. (2012).

Texas Junior College Agriculture Association Public Speaking Contest. (2012).

Committee Member, Agri-Techsan Selection Committee. (2011 - 2012).

Committee Member, CASNR Recruitment, Retention and Career Development Committee. (September 2010 - 2011).

Committee Member, CASNR College Commencement Committee. (September 2009 - August 2010).

### **Department Service**

Committee Chair, The Graduate Programs Committee. (September 2020 - 2024).

Committee Member, Doctoral Comprehensive Exam Committee (AAEC). (May 2009 - Present).

Committee Member, Search Committee for the Econometrician/Data Scientist Position. (2019 - 2020).

Committee Member, Search Committee for the Water Economist Position. (2008).

## **Professional Service**

Committee Member, Blue Ribbon Panel on Climate Change, Council for Food, Agriculture, and Resource Economics. (2012 - 2015).

Reviewer, Grant Proposal, Office of Research and Innovation, Texas Tech University. (2017 - 2018).

Reviewer, Ad Hoc Reviewer, Lanzhou University. (2013).

Reviewer, Grant Proposal, United International College, Zhuhai. (2012).

## **Public Service**

Officer, Treasurer, Southwest Aqua Swim Parents Booster Club, Lubbock, Texas. (2018 - 2019).

Member, Texas Tech University Chinese Faculty and Staff Association, Lubbock, Texas. (2009 - Present).

Baseball coach, Lubbock Cooper Little League, Lubbock, Texas. (2017).

## **Service/Performance Partnerships**

On-farm research and outreach for precision crop management, Engaged Research and Creative Activity, Engaged with more than 20 producers/crop consultants for on-farm research, Texas. (May 1, 2023 - December 2023).

Panelist for the Council for Food, Agriculture, and Resource Economics (C-FARE) Blue Ribbon Panel on Climate Change, 2012-2014

Guest Professor at Lanzhou University, China, 2010- 2013

Adjunct Professor at Lanzhou University, China, 2015-2018

Reviewer for *American Journal of Agricultural Economics*, *Canadian Journal of Agricultural Economics*, *China Agricultural Economics Review*, *Food Policy*, *Journal of Developing Areas*, *Agricultural Water Management*, *Computers and Electronics in Agriculture*, *Agricultural and Resource Economics Review*, *Natural Hazard Review*, *Agricultural and Applied Economics*, *The Rangeland Journal*, *Land Use Policy*, *Journal of Water Resources and Planning*.

Editorial board member of the *International Journal of Applied Agriculture Research*, 2008-2015.

Reviewer for TTU Scholarship Catalyst Program, 2017.

External Research Proposal Reviewer for United International College, 2012

External Doctoral Dissertation Reviewer for Lanzhou University, 2012

Member of Texas Consortium for Irrigation Research and Education (CIRE), 2008-2015

Member of CASNR College Commencement Committee, 2009-2010

Member of CASNR Recruitment, Retention and Career Development Committee, 2010-2011

Member of the Agri-Techsan Selection Committee, 2011 and 2012

Member of CASNR Outstanding Students Selection Committee, 2012

Judge of the Texas Junior College Agriculture Association (TJCAA) Public Speaking Contest, 2012

Member of the ad hoc committee for the development of an operational guidelines addendum between Texas A&M Agrilife and Texas Tech University, 2013.

## **Licensures and Certifications**

Deep Learning Specialization, Coursera. (December 2018).

## **Development Activities Attended**

Development Leave, "A socio-economic survey of pastoral households on the Tibetan Plateau," Lanzhou University, Lanzhou, China. (January 2016 - May 2016).

## **Awards and Honors**

Highly Commended Award Winner, China Agricultural Economic Review. (2014).

Highly Commended Award Winner, China Agricultural Economic Review. (2013).

AEGSA Teaching Award, Agricultural Economics Graduate Student Association. (May 4, 2020).

Outstanding Faculty Member Award, AAEC Graduate Student Association. (2010).