

# Ryan Blake Williams, Ph.D.

Texas Tech University School of Veterinary Medicine  
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 ORCID: 0000-0001-5718-753X

## EDUCATION

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Ph.D., Economics, **Texas Tech University**, Lubbock, TX, 2009

M.E., Economics, **North Carolina State University**, Raleigh, NC, 2005

B.A., Economics, **Emory University**, Atlanta, GA, 1999

## PROFESSIONAL APPOINTMENTS

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Assistant Dean <b>Texas Tech University</b> , School of Veterinary Medicine	April 2022 - Present
Associate Professor of Economics and Public Policy <b>Texas Tech University</b> , School of Veterinary Medicine	June 2020 - Present
Associate Professor <b>Texas Tech University</b> , Department of Agricultural & Applied Economics (75%) <b>Texas A&amp;M AgriLife Research</b> , Lubbock (25%)	September 2017 - May 2020
Assistant Professor <b>Texas Tech University</b> , Department of Agricultural & Applied Economics (75%) <b>Texas A&amp;M AgriLife Research</b> , Lubbock (25%)	April 2015 - August 2017
Assistant Professor <b>Texas Tech University</b> , Department of Agricultural & Applied Economics	September 2011 - March 2015
Visiting Assistant Professor <b>Texas Tech University</b> , Department of Economics	September 2009 - August 2011
Graduate Part-Time Instructor <b>Texas Tech University</b> , Department of Economics	September 2006 - August 2009
Senior Financial Consultant <b>Bank of America, N.A.</b> , Atlanta, GA & Raleigh, NC	September 2002 - August 2004
Financial Consultant <b>Bank of America, N.A.</b> , Atlanta, GA	November 2001 - September 2002
Personal Banker <b>Bank of America, N.A.</b> , Atlanta, GA	October 2000 - October 2001

## INTERNATIONAL EXPERIENCE

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### Canada

2016 (Calgary). Two days. Met with the Executive Team at the Faculty of Veterinary Medicine, University of Calgary.

### People's Republic of China

2017 (Wuhan). One week. Participated in the Second International Conference on Natural Resource Management and Public Policy. Presented research to, and spoke with, undergraduate students, graduate students, and faculty at Huazhong Agricultural University.

### Spain

2019, 2018, 2017 (Sevilla, Bollullos del Condado, and Jabugo). One month. Led a study abroad course. Visited with Iberian pig farmers and a Jamon Ibérico Jabugo de Bellota curing facility (Montesierra). Visited a cooperative winery (Bodegas Privilegio del Condado and Cooperativa Vinícola).

### Sultanate of Oman

2017 (Muscat and Nizwa). One week. Invited by Sultan Qaboos Cultural Center to meet with faculty of Sultan Qaboos University and Nizwa University, as well as the Secretary General of Sultan Qaboos Higher Center for Culture and Science, the Undersecretary of Agriculture at the Ministry of Agriculture and Fisheries, the Undersecretary of Water Resources at the Ministry of Regional Municipalities and Water Resources, and Director General of the Office of Conservation of the Environment.

## HONORS & AWARDS

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2019. Integrated Scholar, Texas Tech University.

2018. Faculty Development Leave with Full Salary, Texas Tech University.

2017. APEE Young Scholar Award, Association of Private Enterprise Education. \$1,000 travel grant and \$419 in reduced registration fees.

2016. Junior Faculty Award, College of Agricultural Sciences & Natural Resources, Texas Tech University. \$1,000 Honorarium.

2014. Outstanding Professor, College of Agricultural Sciences & Natural Resources, Texas Tech University. Recognized by the Student Agricultural Council.

2013. Outstanding Faculty Member, Department of Agricultural & Applied Economics, Texas Tech University. Recognized by the Agricultural Economics Association.

2008. Helen DeVitt Jones Outstanding Doctoral Graduate Part-Time Instructor, Texas Tech University. \$500 Honorarium.

## PROFESSIONAL DEVELOPMENT

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2022. Institute for Inclusive Excellence, Texas Tech University.

2022. Texas Tech University School of Veterinary Medicine Leadership Development Institute, Academic Impressions.

2021. President's Leadership Institute, Texas Tech University.

## PUBLICATIONS (\* student co-authors)

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PEER-REVIEWED JOURNAL ARTICLES: 21

1. Neill, C.L., M.J. Salois, and **R.B. Williams**. Accepted. "The economics of veterinary medicine: Emerging challenges and opportunities for economists." (*Choices*, Forthcoming).
2. Awosile, B., M.K. Rahman, **R.B. Williams**, and G.H. Loneragan. 2022. " in *Escherichia coli* and *Salmonella enterica* isolated from food-producing animals: Ecological study from selected national surveillance programs." *Preventive Veterinary Medicine* 206(2022):105710. <https://doi.org/10.1016/j.prevetmed.2022.105710>
3. Cardella, E., B.T. Ewing, and **R.B. Williams**. 2022. "Green is Good – The Impact of Information Nudges on the Selection of Voluntary Green-Power Plans." *The Energy Journal* 43(1). <https://doi.org/10.5547/01956574.43.1.ecar>
4. Mitchell-McCallister, D., P. Johnson, and **R.B. Williams**. 2021. "An economic analysis on the transition to rainfed production in deficit-irrigated cropping systems of the Texas High Plains." *Frontiers in Sustainable Food Systems* 5. <https://doi.org/10.3389/fsufs.2021.531601>
5. Jahan\*, I., J.B. Pavlik, and **R.B. Williams**. 2020. "Is the devil in the shadow? The effect of institutional quality on income." *Review of Development Economics* 24(4):1463:1483. <https://doi.org/10.1111/rode.12691>
6. Mitchell-McCallister, D., **R.B. Williams**, J. Bordovsky, J. Mustian, G. Ritchie, and K. Lewis. 2020. "Maximizing profits via irrigation timing for capacity-constrained cotton production." *Agricultural Water Management* 229. <https://doi.org/10.1016/j.agwat.2019.105932>
7. Alqaisi, O., L. Moraes, O.A. Ndambi, and **R.B. Williams**. 2019. "Optimal dairy feed input selection under alternative feeds availability and relative prices." *Information Processing in Agriculture* 6(4):438-453. <https://doi.org/10.1016/j.inpa.2019.03.004>
8. Hohman, Z.P., D. Hudson, **R.B. Williams**, B.N. Harris, J.L. Alquist, D. Mitchell, E.M. Niedbala, M. Price. 2019. "The impacts of stress on economic decisions." *Journal of Behavioral Economics for Policy* 3(1):30-36. <https://sabeconomics.org/jbep/jbep-3-1/>
9. Alqaisi, O., O.A. Ndambi, and **R.B. Williams**. 2017. "Time series livestock diet optimization: Cost-effective broiler feed substitution using the commodity price spread approach." *Agricultural and Food Economics* 5(25):1-19. <http://dx.doi.org/10.1186/s40100-017-0094-9>
10. Mitchell\*, D., **R.B. Williams**, D. Hudson, and P. Johnson. 2017. "A Monte Carlo analysis on the impact of climate change on future crop choice and water use in Uzbekistan." *Food Security* 2017. <http://dx.doi.org/10.1007/s12571-017-0690-2>
11. **Williams, R.B.**, R. Al-Hmoud, E. Segarra, and D. Mitchell. 2017. "An estimate of the shadow price of water in the southern Ogallala Aquifer." *Journal of Water Resource and Protection* 9:289-304. <http://dx.doi.org/10.4236/jwarp.2017.93019>
12. Cardella, E., B.T. Ewing, and **R.B. Williams**. 2017. "Price volatility and residential electricity decisions: Experimental evidence on the convergence of energy generating sources." *Energy Economics* 62:428-437. <http://dx.doi.org/10.1016/j.eneco.2016.07.012>
13. Post, R., D. Hudson, D. Mitchell, P. Bell, and **R.B. Williams**. 2016. "Rethinking the water-food-climate nexus and conflict: An opportunity cost approach." *Applied Economic Perspectives and Policy* 38(4):563-577. <http://dx.doi.org/10.1093/aep/ppw027>
14. **Williams, R.B.** and S. Zivkovic. 2016. "The external costs of wind farm development on the high plains: Are developers making an effort to minimize these costs?" *The Electricity Journal* 29(9):31-35. <http://dx.doi.org/10.1016/j.tej.2016.10.011>
15. Neill\*, C.L. and **R.B. Williams**. 2016. "Consumer preference for alternative milk packaging: The case of an inferred environmental attribute." *Journal of Agricultural and Applied Economics* 48(3):241-256. <http://dx.doi.org/10.1017/aae.2016.17>
16. Bian\*, D., **R.B. Williams**, A. Benson, and E. Segarra. 2016. "The effects of policy implementation uncertainty on groundwater extraction." *Journal of Contemporary Water Research and Education* 158:34-45. <http://ucowr.org/journal-issue-archives/158>
17. Neill\*, C.L. and **R.B. Williams**. 2015. "An economic valuation on the external cost of alternative milk packaging." *Journal of Food Distribution Research* 46(3):68-80. <https://www.fdrsinc.org/wp-content/uploads/2015/11/5-112.pdf>

18. **Williams, R.B.** and R. Al-Hmoud. 2015. "Virtual water on the southern High Plains of Texas: The case of a nonrenewable blue water resource." *Natural Resources* 6(1):27-36. <http://dx.doi.org/10.4236/nr.2015.61004>
19. Cukrowicz, K.C., D.R. Jahn\*, R.D. Graham\*, E.K. Poindexter\*, and **R.B. Williams**. 2013. "Suicide risk in older adults: Evaluating models of risk and predicting excess zeros in a primary care sample." *Journal of Abnormal Psychology* 122(4):1021-1030. <http://dx.doi.org/10.1037/a0034953>
20. Benson, A. and **R. Williams**. 2013. "Cost of early snowmelt in terms of reduced irrigation deliveries." *Journal of Natural Resources Policy Research* 5(2-3). <http://dx.doi.org/10.1080/19390459.2013.811850>
21. Bian\*, D., Benson, A., and **R.B. Williams**. 2013. "An estimation of the private value of aquifer recharge from ephemeral wetlands on the Texas High Plains." *Resources*, 2(3):286-302. <http://dx.doi.org/10.3390/resources2030286>

#### BOOK REVIEWS: 1

1. **Williams, R.B.** and D.M. Mitchell\*. 2015. Water management and climate change: dealing with uncertainties. *Journal of Natural Resources Policy Research* 7(4):328-330. <http://dx.doi.org/10.1080/19390459.2015.1075738>

#### BOOK CHAPTERS: 1

1. Mitchell\*, D., D. Hudson, R. Post, P. Bell, and **R.B. Williams**. "Food security and conflict." *Food Security in an Uncertain World (Frontiers of Economics and Globalization, Volume 15) Emerald Group Publishing Limited* 15 (2015): 211-225. <http://dx.doi.org/10.1108/S1574-871520150000015022>

#### TECHNICAL REPORTS: 1

1. Gillum\*, M.B., P. Johnson, D. Hudson, and **R. Williams**. "Fieldprint Calculator: A tool to evaluate the effects of management on physical sustainability." *Crops & Soils* 49(1):26-29. <http://dx.doi.org/10.2134/cs2016-49-1-7>

## TEACHING

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### Texas Tech University

*School of Veterinary Medicine - One Health Sciences PhD*

*School of Veterinary Medicine - DVM*

The Profession and Professionalism

*Department of Agricultural & Applied Economics - Graduate*

Environmental Economics & Policy Analysis

Advanced Special Problems in Agricultural and Applied Economics:

Discrete Choice Models, Simulation in Matlab, & Bayesian Basics

Advanced Special Problems in Agricultural and Applied Economics:

Environmental Policy and Valuation

Advanced Special Problems in Agricultural and Applied Economics:

One Health Statistics II

Advanced Special Problems in Agricultural and Applied Economics:

Binary Response & Count Data Models: Frequentist and Bayesian Methods

*Department of Agricultural & Applied Economics - Undergraduate*

Fundamentals of Agricultural and Applied Economics

Agricultural Price Theory

Agribusiness Enterprise Management (Farm & Ranch Management)

Applied Optimization Methods

*Department of Economics - Undergraduate*

Managerial Economics

Principles of Microeconomics – Honors  
 Principles of Microeconomics  
 Principles of Macroeconomics  
 Principles of Economics

## GRADUATE STUDENT MENTORING

### Doctoral (Advisor)

- 2022 - Present Crocker, Andrew B. One Health Sciences. Texas Tech University. Anticipated Graduation: 2026.  
 2021 - Present Samper, Bailey. One Health Sciences. Texas Tech University. Anticipated Graduation: 2024.  
*Awarded the Helen DeVitt Jones Graduate Fellowship for the Davis College of Agricultural Sciences and Natural Resources, 2022.*  
 2016 - 2021 Sun, Lianqun. (Co-Advisor B. Chidmi). Agricultural & Applied Economics. Texas Tech University.  
 Dissertation: A Review of Consumer Preferences for Eco-Labelled Products with a New Empirical Industrial Organization Analysis of Household Cleaning Products.  
 2016 - 2020 Musa, Anne O. (Co-Advisor C. Carpio). Agricultural & Applied Economics. Texas Tech University.  
 Budget Specialist, Pilgrim's.  
 Dissertation: Essays on Food Security in The United States.  
 2015 - 2020 Ugwuanyi, Blessing. (Co-Advisor S. Devadoss). Agricultural & Applied Economic. Texas Tech University.  
 Assistant Professor, Southern Arkansas University.  
 Dissertation: Essays on Trade and Domestic Farm Policies.  
*Awarded a Texas Tech University Doctoral Dissertation Completion Fellowship, 2018-2019.*  
 2013 - 2016 Roberson, Michael. Agricultural & Applied Economics. Texas Tech University.  
 Economics Adjunct, Western Kentucky University - Glasgow.  
 Dissertation: Price elasticity for smartphones in the United States: Results from three methodological approaches.

### Masters - Thesis Option (Advisor)

- 2014 - 2016 Gao, Yang. Texas Tech University.  
 Thesis: Cap and trade markets for groundwater: Efficiency and distributional effects of a permit allocation mechanism.  
 2013 - 2014 Neill, Clinton. Texas Tech University.  
 Ph.D. Oklahoma State University.  
 Thesis: Consumer preference for alternative milk packaging.

### Doctoral (Dissertation Committee Member)

- 2022 - Present Boggan, Sara. One Health Sciences. Texas Tech University.  
 2016 - 2021 White, C.D. Ray. Plant & Soil Science. Texas Tech University.  
 2015 - 2020 Baliga, Vikram. Plant & Soil Science. Texas Tech University.  
 2018 - 2020 Hinds, Zach. Plant & Soil Science. Texas Tech University.  
 2017 - 2019 McCullough, Rebecca. Agricultural & Applied Economics. Texas Tech University.  
 2015 - 2017 Asare, Eric. Agricultural & Applied Economics. Texas Tech University.  
 2014 - 2017 Acharya, Sanjit. Plant & Soil Science. Texas Tech University.  
 2013 - 2016 Shiroya, Michael. Agricultural & Applied Economics. Texas Tech University.  
 2013 - 2016 De-Silva, K. V. Nirodha Sudershini. Agricultural & Applied Economics. Texas Tech University.  
 2013 - 2015 Bian, Dacheng. Agricultural & Applied Economics. Texas Tech University.  
 2012 - 2014 Mitchell, Donna. Agricultural & Applied Economics. Texas Tech University.  
 2012 - 2014 Thapa, Janani. Agricultural & Applied Economics. Texas Tech University.  
 2012 - 2013 Liu, Bing. Agricultural & Applied Economics. Texas Tech University.

### Masters - Thesis Option (Committee Member)

- 2019 - 2020 Sapkota, Pradip. Plant & Soil Science. Texas Tech University.  
 2019 - 2019 Brown, Rohan. Plant & Soil Science. Texas Tech University.  
 2016 - 2019 Young, Shelby. Plant & Soil Science. Texas Tech University.

2018 - 2019	Rumi, Shaida Sultana. Plant & Soil Science. Texas Tech University.
2017 - 2019	Macha, Nick. Plant & Soil Science. Texas Tech University.
2017 - 2018	Black, Taylor. Agricultural & Applied Economics. Texas Tech University.
2016 - 2018	Pabuayon, Irish. Plant & Soil Science. Texas Tech University.
2016 - 2018	Burke, Joseph. Plant & Soil Science. Texas Tech University.
2016 - 2017	Grant, James. Plant & Soil Science. Texas Tech University.
2014 - 2015	Gillum, Miranda. Agricultural & Applied Economics. Texas Tech University.
2014 - 2015	Stokes, Kelsey. Agricultural & Applied Economics. Texas Tech University.
2012 - 2015	Imel, R. Kelby. Plant & Soil Science. Texas Tech University.
2014 - 2015	Brunson, Kyle. Natural Resources Management. Texas Tech University.
2013 - 2014	Abeyasinghe, Shayamalee. Plant & Soil Science. Texas Tech University.
2012 - 2013	Liyanage, Sumedha. Plant & Soil Science. Texas Tech University.

### **Masters (Committee Member)**

2021 - Present	Patton, Zach. Professional Science Master's. Texas Tech University.
2018 - 2022	Hamilton, Ashley (Chair). Agricultural & Applied Economics. Texas Tech University.
2019 - 2020	Green, Glenn. Masters of Agribusiness. Texas Tech University.
2019 - 2020	Worley, Lauren. Agricultural & Applied Economics. Texas Tech University.
2018 - 2019	Crowl, Jennifer. (Chair). Masters of Agribusiness. Texas Tech University.
2017 - 2019	Petry, Christy (Chair). Masters of Agribusiness. Texas Tech University.
2016 - 2017	Gallington, Nick. Plant & Soil Science. Texas Tech University.
2016 - 2017	House, Kelsey. Plant & Soil Science. Texas Tech University.
2015 - 2016.	Clarke, Deborah. (Chair). Agricultural & Applied Economics. Texas Tech University.
2016	Hopkins, Mishon. Plant & Soil Science. Texas Tech University.
2015	Kalina, Victoria. Masters of Agribusiness. Texas Tech University.
2015	Langdon, Charles. Plant & Soil Science. Texas Tech University.
2015	Bateman, Laney. Masters of Agribusiness. Texas Tech University.
2014	Murphy, Ben. Plant & Soil Science. Texas Tech University.

### **FUNDED RESEARCH**

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Total Funding to Date: \$2,224,459    Share: \$630,000

1. Co-PI. 2022-2025. Professional Skill Bootcamp for Recent Graduates in Production Animal Medicine. National Institute of Food and Agriculture (NIFA)-USDA: Cooperative State Research Ed & Extension Service. \$231,337 Total Award. Co-PIs: P. Gibbons (Lead), J. Koziol, B. Schilling, and N. Zimmerman.
2. Co-PI. 2022–2023. Economic and Policy Implications of Underground Water Use in the Southern Ogallala Region. Ogallala Aquifer Program (OAP) - U.S. Department of Agriculture Agricultural Research Service. \$200,000 Total Award (\$2,200 share). Co-PIs: L. Almas, D. McCallister, J. Benavidez, B. Guerrero, B. Golden, M. Vestal.
3. Co-PI. 2019–2020. Economic and Policy Implications of Underground Water Use in the Southern Ogallala Region. Ogallala Aquifer Program (OAP) - U.S. Department of Agriculture Agricultural Research Service. \$90,000 (\$22,500 share). Co-PIs: L. Almas, B. Guerrero, S. Park, B. Golden, M. Vestal.
4. Co-PI. 2019–2020. Testing of spineless prickly pear cactus for profitable forage production under dryland conditions. Ogallala Aquifer Program (OAP) - U.S. Department of Agriculture Agricultural Research Service. \$39,450 (\$3,000 share). Co-PIs: M. Burow, G. Ritchie.
5. Co-PI. 2018-2019. Economic and Policy Implications of Underground Water Use in the Southern Ogallala Region: Economic analysis of experimental results. Ogallala Aquifer Program (OAP) - U.S. Department of Agriculture Agricultural Research Service. \$180,000 Total Award (\$22,500 share). Co-PIs include: Almas, L., Golden, B., Guerrero, B., Mitchell, D., and Park, S.
6. Co-PI. 2018-2019. Enhancing Water Conservation through Remote Sensing from Unmanned Systems.

- Ogallala Aquifer Program (OAP) - U.S. Department of Agriculture Agricultural Research Service. \$73,189 Total Award (\$12,000 share). Co-PIs include: Young, J., Ritchie, G., Guo, W., Deb, S., Weindorf, D., Bernard, E., and McCall, D.
7. Co-PI. 2018-2019. Comprehensive Evaluation of Tillage and Crop Rotation Practices under Deficit Irrigated and Dryland Conditions in the Texas South Plains.  
Ogallala Aquifer Program (OAP) - U.S. Department of Agriculture Agricultural Research Service. \$64,546 Total Award (\$6,739 share). Co-PIs include: Bordovsky, J., Lewis, K., and Porter, D.
  8. Co-PI. 2018-2019. Testing of Management Practices and Advanced Guar Breeding Lines for Profitable Production under Dryland and Limited Irrigation Conditions.  
Ogallala Aquifer Program (OAP) - U.S. Department of Agriculture Agricultural Research Service. \$71,789 Total Award (\$3,500 share). Co-PIs include: Burow, M., Trostle, C., and Angadi, S.
  9. Co-PI. 2017-2018. Integrated Grain Sorghum Production in a Cotton/Sorghum Rotation: Irrigation, Tillage and Weed Management in the Southern High Plains of Texas.  
Texas Grain Sorghum Producers Board. \$10,000 Total Award (\$2,500 share). Co-PIs include: Bordovsky, J.P., Keeling, W., and Lewis, K.
  10. Co-PI. 2017-2018. Economic Decisions Under Stress.  
Texas Tech University Seed Grants for Interdisciplinary Research (TTU SGIR). \$114,000 Total Award. Co-PIs include: Hudson, D., Harris, B., Alquist, J., and Mitchell, D.
  11. Co-PI. 2017-2018. Economic and Policy Implications of Underground Water Use in the Southern Ogallala Region: Economic impact of selected water conservation policies in Texas.  
Ogallala Aquifer Program (OAP) - U.S. Department of Agriculture Agricultural Research Service. \$200,000 Total Award (\$25,000 share). Co-PIs include: Almas, L., Golden, B., Guerrero, B., Mitchell, D., and Park, S.
  12. Co-PI. 2017. A Monte Carlo analysis on the impact of climate change on future crop choice and water use in Uzbekistan.  
Texas Tech University Open Access Initiative. \$2,400 Total Award. Co-PIs include: Mitchell, D., Johnson, P., Hudson, D.
  13. Co-PI. 2016-2017. Rainwater Harvesting Economic Analysis.  
High Plains Underground Water Conservation District (HPWD). \$13,969 Total Award (\$3,232 share). Co-PIs include: Howell, N.
  14. Co-PI. 2016. Price volatility and residential electricity decisions: Experimental evidence on the convergence of energy generating sources.  
Texas Tech University Open Access Initiative. \$1,500 Total Award. Co-PIs include: Cardella, E. and Ewing, B.
  15. Co-PI. 2015-2016. Economic analysis of residential irrigation habits and landscape design to reduce outdoor water usage.  
High Plains Underground Water Conservation District (HPWD). \$3,000 Total Award (\$1,500 share). Co-PIs include: Young, J.
  16. Lead PI. 2015-2018. Enhanced Education and Expanded Research Capabilities Through Experimental Economics Laboratories.  
National Institute of Food and Agriculture (NIFA)-USDA: Non-Land Grant Colleges of Agriculture Capacity Building. \$269,279 Total Award (\$191,000 share). Co-PIs include: Hudson, D. and Wright, A.
  17. Co-PI. 2016-2017. Economic and Policy Implications of Underground Water Use in the Southern Ogallala Region: Updating economic policy analysis tools.  
Ogallala Aquifer Program (OAP) - U.S. Department of Agriculture Agricultural Research Service. \$200,000 Total Award (\$50,000 share). Co-PIs include: Almas, L., Golden, B., Guerrero, B., and Park, S.
  18. Co-PI. 2015-2016. Economic and Policy Implications of Underground Water Use in the Southern Ogallala Region: Potential water market structures in the northern and southern sub-regions of the Southern Ogallala.  
Ogallala Aquifer Program (OAP) - U.S. Department of Agriculture Agricultural Research Service. \$220,000 Total Award (\$55,000 share). Co-PIs include: Almas, L., Amosson, S., and Golden, B. Project management taken over from J. Johnson.
  19. Co-PI. 2014-2015. Economic and Policy Implications of Underground Water Use in the Southern Ogallala Region: Existence value of groundwater resources.

Ogallala Aquifer Program (OAP) - U.S. Department of Agriculture Agricultural Research Service. \$240,000 Total Award (\$60,000 share). Co-PIs include: Almas, L., Amosson, S., and Golden, B. Project management taken over from J. Johnson.

## PRESENTATIONS

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1. Selected Presentation. "Mannheima Steamrolling: Managing the bacteria commons of bovine respiratory disease." Agricultural and Applied Economics Association Annual Meeting, Austin, TX, August 2021.
2. Selected Presentation. "The tragedy of the common bacteria: Valuing the population of antibiotic-susceptible bacteria in feed cattle." Southern Agricultural Economics Association Annual Meeting, Birmingham, AL, February 2019.
3. Invited Panelist/Presentation. "Understanding the Complexities of Groundwater: Understanding the Economics I." Rethinking Texas Water Policy, College Station, TX, April 2018.
4. Selected Presentation. "Making Green Look Good - How information nudges influence residential electricity plan choice." Southern Agricultural Economics Association Annual Meeting, Jacksonville, FL, February 2018.
5. Invited Presentation. "Alternative Methods for Valuing and Managing Natural Resources." Huazhong Agricultural University, Wuhan, China, October 2017.
6. Selected Presentation. "The Potential for Groundwater Conservation Through Managing Expectations of Future Agricultural Technology Enhancements." The 2nd International Conference on Natural Resource Management and Public Policy, Wuhan, China, October 2017.
7. Invited Presentation. "Cap and trade markets for groundwater: Efficiency and distributional effects of the permit allocation mechanism." Ogallala Aquifer Program Workshop, Amarillo, TX, March 2016.
8. Attended Poster. "Impacts of agricultural productivity enhancements and time value of money on groundwater extraction." Ogallala Aquifer Program Workshop, Amarillo, TX, March 2016.
9. Campus Presentation. "Water economics." Sultan Qaboos Cultural Center (SQCC)/International Center for Arid & Semiarid Land Studies (ICASALS) Agriculture in Arid Lands, Lubbock, TX, November 2015.
10. Invited Presentation. "Factors affecting student loan debt for students of veterinary medicine." American Veterinary Medical Association Economic Summit, Rosemont, IL, October 2015.
11. Selected Presentation. "Household willingness to pay for playa restoration." Southern Agricultural Economics Association Annual Meeting, Atlanta, GA, February 2015.
12. Selected Presentation. "An economic valuation of freshwater resources in hydraulic fracturing in West Texas." Fracturing Impacts and Technologies Conference, Lubbock, TX, September 2014.
13. Selected Presentation. "Per capita income and farmers' markets: Searching for an environmental Kuznets curve for environmental attributes." Western Agricultural Economics Association Annual Meeting, Monterey, CA, June 2013.
14. Selected Presentation. "The energy-water nexus: Evaluating the interstate trade of water resources through electricity." Universities Council on Water Resources / The National Institutes for Water Resources Annual Conference, Santa Fe, NM, July 2012.
15. Selected Presentation. "The external costs of wind farm development on the Great Plains: Are developers making an effort to minimize these costs?" Southern Agricultural Economics Association Annual Meeting, Birmingham, AL, February 2012.
16. Campus Presentation. "Evaluating the factors influencing wind energy development." Agricultural Economics Lecture Series, Department of Agricultural and Applied Economics, Texas Tech University, Lubbock, TX, January 2011.
17. Attended Poster. "Is there evidence that legislative ambition matches development? Evaluating the factors influencing wind energy development." Agricultural and Applied Economics Association Annual Meeting, Denver, CO, July 2009.



## EXTENSION AND OUTREACH

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1. Member, Board of Directors, Lubbock Downtown Farmers Market, 2016 - 2017.
2. Presenter. "West Texas energy growth: What it means for the local economy and environment." West Texas Home Builders Association Membership Luncheon, Lubbock, TX, June 2014 (Presented with Michael Giberson).
3. Presenter. "West Texas energy growth: What it means for the local economy and environment." FirstBank & Trust Business Development Board, Lubbock, TX, June 2014 (Presented with Michael Giberson).

## SERVICE

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### PROFESSIONAL SERVICE

- 2017 - 2019 Member, SAEA Outstanding Doctoral Dissertation Award Committee.  
 2016 - 2017 Topic Co-Leader, AAEA Environmental and Nonmarket Valuation Section.

### Editorships

- Editorial Council, *Journal of Agricultural and Resource Economics*, 2018 - 2021.  
 Guest Editor, *The Texas Water Journal*, 2017.

### ad hoc Reviewer

- Energy Economics  
 Ecological Economics  
 Journal of Agricultural and Resource Economics  
 Journal of Agricultural and Applied Economics  
 Frontiers in Veterinary Science  
 Water Resources Management  
 Journal of the American Water Resources Association  
 Land Use Policy  
 Society & Natural Resources  
 The Texas Water Journal  
 Natural Resources  
 Journal of Benefit-Cost Analysis  
 Ergonomics

### Professional Meetings:

- 2020 Reviewer, AAEA Annual Meeting abstracts.  
 2017 Reviewer, AAEA Annual Meeting abstracts.  
 2016 Reviewer, AAEA Annual Meeting abstracts.  
 2013 Reviewer, WAEA Annual Meeting abstracts.

### Grant Review Panel

- 2021 Panelist, USDA NIFA Program.  
 2018 Reviewer, Ogallala Aquifer Program.  
 2013 Panelist, USDA NIFA Program.

### Textbook Reviews:

- Perloff, J. (4th ed.). *Microeconomics: Theory and Application with Calculus*, New York, NY: Pearson Education.  
 Perloff, J. (edits for 8th ed.). *Microeconomics*, New York, NY: Pearson Education.  
 Rubb, S. & Sumner, S. B. (proposed). *Economics for Business and Society*, New York, NY: Worth Publishers.  
 Allen, W. B., Weigelt, K., Doherty, N., & Mansfield, E. (2009). *Managerial Economics: Theory, Applications, and Cases* (7th ed.), New York, NY: W.W. Norton & Company, Inc.

## DEPARTMENTAL/SCHOOL SERVICE

2022 - Present Faculty Advisor, TTU SVM Chapter - Veterinary Business Management Association  
 2022 - Present Member, Data Synthesis & Analysis Committee  
 2021 - Present Chair, Faculty Mentoring Committee: Dr. Pippa Gibbons.  
 2021 - Present Member, Faculty Mentoring Committee: Dr. Marcelo Schmidt.  
 2021 - Present Member, Faculty Mentoring Committee: Dr. Gizem Levent.  
 2021 - Present Member, Promotion & Tenure Committee  
 2020 - Present Member, Research Committee  
 2021 - 2022 Member, Graduate Handbook ad hoc Committee  
 2020 - 2021 Member, Search Committee - Wildlife  
 2020 - 2021 Member, Scholarship & Awards Committee  
 2020 - 2021 Co-Chair, PhD Program Proposal ad hoc Committee  
 2019 - 2020 Coordinator, Master of Agribusiness Program  
 2019 - 2020 Internship Committee, member  
 2019 - 2020 Member, Search Committee - Big Data/AI  
 2016 - 2020 Graduate Comprehensive Exams Committee, member  
 2011 - 2020 Comprehensive Exam Question Contribution and Grading  
 2011 - 2020 Undergraduate Advising  
 2019 Third-Year Review Committee - Pavlik  
 2018 Faculty Advisor, Agricultural Economics Graduate Student Association  
 2017 Third-Year Review Committee - Martin  
 2011 - 2016 Graduate Programs Committee  
 2013 - 2014 Advisor, Ag Eco Association  
 2012 - 2013 Junior Advisor, Ag Eco Association  
 2011 Member, NSF-REU Ad-Hoc Committee, College of Agricultural Sciences & Natural Resources  
 2009 - 2010 Instructor, Graduate Student Teaching Workshop, Department of Economics, Texas Tech University

### UNIVERSITY & COLLEGE SERVICE

2017 - Present Member, Institutional Review Board  
 2019 - 2020 Chair, CASNR Marketing and Outreach Committee  
 2013 - 2020 Member, CASNR Marketing and Outreach Committee  
 2015 - 2020 Secretary/Treasurer, Gamma Sigma Delta - Texas Tech University Chapter  
 2017 - 2019 Member, Faculty Grievance Panel  
 2016 - 2019 Co-Author and Analyst, Texas Tech University School of Vet Medicine Business Case  
 2017 Member, CASNR Dean Search Committee  
 2017 Judge, Mr. CASNR.  
 2016 Member, Texas Tech University School of Vet Medicine Budget Study Committee  
 2015 Judge, 14th Annual Graduate School Poster Competition  
 2014 - 2015 President, Gamma Sigma Delta - Texas Tech University Chapter  
 2014 - 2015 Vice President, Gamma Sigma Delta - Texas Tech University Chapter

#### Graduate School Dean's Representative:

2018 Lyons, Veronica. Chemistry.  
 2016 Mbarga, Ange Abena. Civil Engineering.  
 2014 McDonald, Brendan. Psychology.  
 2012 Cupidon, Jean. Economics.  
 2012 McKenzie, Keisha. Technical Communications & Rhetoric.  
 2011 Zobel, Gregory. Technical Communications & Rhetoric.

### COMMUNITY SERVICE

2017 - Present Official, USA Swimming  
 2018 - 2020 Treasurer, Tech Terrace UNIT Neighborhood Association  
 2017 - 2018 Vice President, Tech Terrace UNIT Neighborhood Association  
 2017 - 2018 Reading Volunteer, 1st Grade, All Saints Episcopal School

## CONSULTING

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2016 - 2018	Statistical Analysis Consultant, Dr. Kelly Cukrowicz's American Foundation for Suicide Prevention Grant.
2015	Expert Witness (No deposition or trial testimony) - Sugar Contracts Dispute, Phillips-Lytle Law Firm.
2014 - 2015	Wage and Debt Analysis, American Veterinary Medical Association.
2013	Pro bono Economic Consultant - Guar Market Analysis, Archer Daniels Midland (ADM).
2012	Pro bono Economic Consultant - Conservation Banking, Texas Parks and Wildlife and Lesser Prairie-Chicken Interstate Working Group.

## PROFESSIONAL AFFILIATIONS

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Association of Environmental and Resource Economists (member)	2006 - Present
Agricultural & Applied Economics Association (member)	2008 - Present
Western Agricultural Economics Association (member)	2008 - Present
Southern Agricultural Economics Association (member)	2011 - Present
Gamma Sigma Delta - Honor Society of Agriculture	2012 - Present