

# XIAOLI ETIENNE

Associate Professor

Division of Resource Economics and Management, West Virginia University  
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## Education

- 12/2013      **Ph.D** in Agricultural and Applied Economics  
University of Illinois at Urbana-Champaign, Illinois, USA  
Dissertation: *Three Essays on Bubbles in Agricultural Futures Markets*  
Advised by Dr. Scott Irwin and Dr. Philip Garcia
- 08/2009      **M.S.** in Agricultural and Applied Economics  
University of Illinois at Urbana-Champaign, Illinois, USA  
Thesis: *Salmonella in My Salsa and Melamine in My Milk: Food Safety  
and the Distribution of Trade-Related Technical Assistance*  
Advised by Dr. Alex Winter-Nelson
- 05/2009      **M.S.** in Applied Statistics  
University of Illinois at Urbana-Champaign, Illinois, USA
- 07/2007      **B.A.** in Rural and Regional Development  
Renmin University of China, Beijing, China

## Employment

- 08/2019–present      **Associate Professor**, Division of Resource Economics and Management  
West Virginia University
- 08/2014–07/2019      **Assistant Professor**, Division of Resource Economics and Management  
West Virginia University
- 12/2013–06/2014      **Short-Term Consultant**, The World Bank Group
- 08/2007–07/2013      **Research and Teaching Assistant**, University of Illinois

## Research Interests

- Primary:              Price Analysis and Forecasting, Futures and Options Markets  
Risk Management in the Agricultural and Energy Sectors, Marketing
- Secondary:            Applied Econometrics, Food Safety, Production Economics

## Awards & Honors

- 2015, 2017, 2018      Outstanding Research Award, Division of Resource Economics and Management, West Virginia University
- 2018                    Outstanding Service Award, Division of Resource Economics and Management, West Virginia University
- 2017                    Outstanding Reviewer, *Agricultural Finance Review*, Emerald Literati Awards
- 2015                    Big XII Faculty Fellow, West Virginia University

## Peer-Reviewed Publications

\*denotes student; #denotes corresponding author if different from first author

24. Lawson, J.\*, Alam, M.R.#, and **Etienne, X.L.** 2020. Speculation and Food-Grain Prices. *Applied Economics*. Forthcoming. doi: [10.1080/00036846.2020.1859451](https://doi.org/10.1080/00036846.2020.1859451)
23. Ismailova Z.\*, **Etienne, X.L.#**, Shakya S\*, and Mattos F. 2020. Quantifying the Announcement Effects in the US Lumber Futures Market. *Journal of Forest Economics*. 35(4): 375–95. doi: [10.1561/112.00000519](https://doi.org/10.1561/112.00000519)
22. Wang, J., **Etienne, X.L.#**, and Ma, Y. 2020. Deregulation, Technical Efficiency, and Production Risk in Rice Farming: Evidence from Zhejiang, China. *China Agricultural Economic Review*. 12(4): 605-622. doi: [10.1108/CAER-11-2019-0197](https://doi.org/10.1108/CAER-11-2019-0197)
21. Aratuo, D.N.\*, **Etienne, X.L.**, Fryson, D.M., and Gebremedhin, T. 2019. Revisiting the Tourism-Economic Growth Nexus: Evidence from the United States. *International Journal of Contemporary Hospitality Management*. 31(9): 3779-3798. doi: [10.1108/IJCHM-08-2018-0627](https://doi.org/10.1108/IJCHM-08-2018-0627)
20. Maples, W., Brorsen, B.W., and **Etienne, X.L.** 2019. Hedging Effectiveness of Fertilizer Swaps. *Applied Economics*. 51(53): 5793-5801. doi: [10.1080/00036846.2019.1624916](https://doi.org/10.1080/00036846.2019.1624916)
19. **Etienne, X.L.**, Ferrara, G., and Mugabe, D\*. 2019. How Efficient Is Maize Production among Smallholder Farmers in Zimbabwe? A Comparison of Semiparametric and Parametric Frontier Efficiency Analyses. *Applied Economics*. 51(26): 2855-2871. doi: [10.1080/00036846.2018.1558363](https://doi.org/10.1080/00036846.2018.1558363)
18. Scarcioffolo, A.\* and **Etienne, X.L.#** 2019. How Connected Are the U.S. Regional Natural Gas Markets in the Post-Deregulation Era? Evidence from Time-Varying Connectedness Analysis. *Journal of Commodity Markets*. 15: 1-18. doi: [10.1016/j.jcomm.2018.09.004](https://doi.org/10.1016/j.jcomm.2018.09.004)
17. Aratuo, D.N.\* and **Etienne, X.L.#** 2019. Industry-Level Analysis of Tourism-Economic Growth in the United States. *Tourism Management*. 70: 333-340. doi: [10.1016/j.tourman.2018.09.004](https://doi.org/10.1016/j.tourman.2018.09.004)
16. **Etienne, X.L.**, Irwin, S.H., and Garcia, P. 2018. Speculation and Corn Prices. *Applied Economics*. 50(44): 4724-4744. doi: [10.1080/00036846.2018.1466992](https://doi.org/10.1080/00036846.2018.1466992)
15. Franken, J., Garcia, P., Irwin, S.H., and **Etienne, X.L.** 2018. Information Transmission between Livestock Futures and Expert Price Forecasts. *Journal of Agribusiness*. 36(1): 21-39.
14. Li, J.\*, Chavas, J.P., **Etienne, X.L.**, and Li, L. 2017. Commodity Price Bubbles and Macroeconomics: Evidence from Chinese Agricultural Markets. *Agricultural Economics*. 48(6): 755-768. doi: [10.1111/agec.12372](https://doi.org/10.1111/agec.12372)
13. **Etienne, X.L.**, Trujillo-Barrera, A., and Hoffman, L.A. 2017. Volatility Spillover and Time-Varying Conditional Correlation between DDGS, Corn, and Soybean Meal Markets. *Agricultural and Resource Economics Review*. 46(3): 529-554. doi: [10.1017/age.2016.44](https://doi.org/10.1017/age.2016.44)
12. **Etienne, X.L.**, and Yu, J.# 2017. Inverse Price Spread and Illiquid Trading in South Korea's Emissions Trading Scheme. *Carbon Management*. 8(3): 225-235. doi: [10.1080/17583004.2017.1309205](https://doi.org/10.1080/17583004.2017.1309205)

11. **Etienne, X.L.**, Mallory, M., and Irwin, S.H. 2017. Estimating the Cost of Pre-Harvest Forward Contracting Corn and Soybeans in Illinois Before and After 2007. *Agribusiness: An International Journal*. 33(3): 358-377. doi: [10.1002/agr.21500](https://doi.org/10.1002/agr.21500)
10. Wiggins, S.\* and **Etienne, X.L.** 2017. Turbulent Times: Uncovering the Origins of US Natural Gas Price Fluctuations Since Deregulation. *Energy Economics*. 64: 196-205. doi: [10.1016/j.eneco.2017.03.015](https://doi.org/10.1016/j.eneco.2017.03.015)
9. **Etienne, X.L.** 2017. Irrational Exuberance in the Chinese Iron Ore Market? *Applied Economics Letters*. 24(16): 1161-1166. doi: [10.1080/13504851.2016.1262507](https://doi.org/10.1080/13504851.2016.1262507)
8. **Etienne, X.L.**, Irwin, S.H., and Garcia, P. 2017. New Evidence That Index Traders Did Not Drive Bubbles in Grain Futures Markets. *Journal of Agricultural and Resource Economics*. 42(1): 45-67.
7. **Etienne, X.L.**, Trujillo-Barrera, A., and Wiggins, S\*. 2016. Price and Volatility Transmissions between Natural Gas, Fertilizer, and Corn Markets. *Agricultural Finance Review*. 76(1): 151-171. doi: [10.1108/AFR-10-2015-0044](https://doi.org/10.1108/AFR-10-2015-0044)
6. Baffes, J. and **Etienne, X.L.** 2016. Analyzing Food Price Trends in the Context of Engel's Law and the Prebisch-Singer Hypothesis. *Oxford Economic Papers*. 68(3): 688-713. doi: [10.1093/oep/gpw011](https://doi.org/10.1093/oep/gpw011)
5. Hoffman, L., **Etienne, X.L.**, Irwin, S.H., Colino, E.V., and Toasa, J. 2015. Forecast Performance of WASDE Price Projections for Corn. *Agricultural Economics*. 46(s1). 157-171. doi: [10.1111/agec.12204](https://doi.org/10.1111/agec.12204)
4. **Etienne, X.L.**, Irwin, S.H., and Garcia, P. 2015. \$25 Minneapolis Wheat Was a Bubble, Right? *Agricultural Finance Review*. 75 (1): 114-132. doi: [10.1108/AFR-12-2014-0042](https://doi.org/10.1108/AFR-12-2014-0042)
3. **Etienne, X.L.**, Irwin, S.H., and Garcia, P. 2015. Price Explosiveness, Speculation, and Grain Futures Prices. *American Journal of Agricultural Economics*. 97(1): 65-87. doi: [10.1093/ajae/aau069](https://doi.org/10.1093/ajae/aau069)
2. **Etienne, X.L.**, Irwin, S.H., and Garcia, P. 2014. Bubbles in Food Commodity Markets: Four Decades of Evidence. *Journal of International Money and Finance*. 42: 129-155. doi: [10.1016/j.jimonfin.2013.08.008](https://doi.org/10.1016/j.jimonfin.2013.08.008)
1. Colino, E.V., Irwin, S.H., Garcia, P. and **Etienne, X.L.** 2012. Composite and Outlook Forecast Accuracy. *Journal of Agricultural and Resource Economics*. 37(2): 228-246.

## Other Publications

\*denotes student

4. Scarcioffolo, A.\* and **Etienne, X.L.** 2019. Past, Present, and Future of the U.S. Natural Gas Market: Lessons for Brazil. Opinion article, FGV Energia, August 2019 Issue. <https://fgvenergia.fgv.br/publicacao/o-novo-mercado-de-gas-natural-opinioes-de-especialistas-perspectivas-e-desafios-para-o>
3. Hadrich, J.C., Janzen, J., **Etienne, X.L.**, and E. Yeager. 2018. Editorial: Agricultural Credit and the Changing Landscape of American Agriculture. *Agricultural Finance Review*. 78(4): 394-395. doi: [10.1108/AFR-08-2018-100](https://doi.org/10.1108/AFR-08-2018-100)
2. Mattos, F., Cumming, K.\*, and **Etienne, X.L.** 2017. Projecting Corn and Soybean Crops: How Accurate Are Crop Forecasts? *Cornhusker Economics*, June 14, 2017. <http://agecon.unl.edu/cornhusker-economics/2017/how-accurate-are-crop-forecasts.pdf>.

1. Nelson, G., Robertson, R., Msangi, S., Zhu, T., **Liao (Etienne) X.**, and Jawajar, P. 2009. Greenhouse Gas Mitigation: Issues for Indian Agriculture. International Food Policy Research Institute (IFPRI) Discussion Paper 00900, September 2009.

## Papers Under Review and in Preparation

\*denotes student; #denotes corresponding author if different from first author

17. Huang, K.\* and **Etienne, X.L.**# Do Natural Hazards in the Gulf Coast Still Matter for the State-level Natural Gas Prices in the United States after the Rise of New Production States? *Energy Economics*. Revise and resubmit.
16. Scarcioffolo, A.\* and **Etienne, X.L.** Testing Directional Predictability Between Energy Prices: A Cross-Quantilegram Analysis. *Resources Policy*. Revise and resubmit.
15. Scarcioffolo, A.\* and **Etienne, X.L.** Regime Switching Energy Market Volatility: The Role of Economic Policy Uncertainty. Under review.
14. Nuñez, H., Trujillo-Barrera, A., and **Etienne, X.L.** Declining Integration in the US Natural Gas Market. Under review.
13. Shakya, S., Li, B., and **Etienne, X.L.**# Shale Revolution, Rig Activities, and Oil and Gas Prices in the United States. Under review.
12. Huang, K.\* and **Etienne, X.L.**# Do Exploitations of Marcellus and Utica Shale Formations Improve Regional Economy in West Virginia and Ohio? A Synthetic Control Analysis. Under review.
11. Zhang, Q., **Etienne, X.L.**, Wang, Z.#, and Ding, R. Effects of Local Officials' Promotion Pressure on Coal Overcapacity in China. Under review.
10. Khurana, R.\*, D. Mugabe, and **Etienne, X.L.** Does Natural Disasters Disrupt Legal System Integrity? Under review.
9. Huang, K.\*, **Etienne, X.L.**, and Sant'Anna, A.C. Covid-19 and Household Fresh Produce Consumption Change in the US. In preparation for submission (working paper available).
8. **Etienne, X.L.**, Farhangdoost, S.\*, and Hoffman, L.A. An Alternative Method to Forecast the Season Average Price of Corn in the U.S. In preparation for submission (working paper available).
7. F. Nie, Li, J., and **Etienne, X.L.** Financialization or Servicification? The Impact of Outward Foreign Direct Investment on Chinese Firms' De-industrialization. Work in progress.
6. S. Chen, **Etienne, X.L.**, S. Jin, and H.H. Wang. Covid-19 and Agricultural Market Integration in China. Work in progress.
5. G. Ferrara, **Etienne, X.L.**, Ma, Y. Agricultural Policy Reform and Technical Efficiency of Grain Production in China. Work in progress.
4. Farhangdoost, S.\* and **Etienne, X.L.** Forecasting Natural Gas Prices in the Shale Boom Era. Work in progress.
3. Farhangdoost, S.\* and **Etienne, X.L.** Time-Varying Announcement Effect of EIA Inventory Reports. Work in progress.

2. Baffes, J. and **Etienne, X.L.** Has Yield Growth Stagnated for Major Crops? Work in progress.
1. Huang, K.\*, **Etienne, X.L.**, and Sant'Anna, A.C. Risk Perceptions, Risk Preferences, and Consumer Willingness-to-Pay for Improved Food Safety. Work in progress.

## Conference and Other Research Presentations

\*denotes student

34. Scarcioffolo, A.\* and **Etienne, X.L.** Regime-Switching Energy Market Volatility: The Role of Economic Policy Uncertainty. *The Fourth Commodity Markets Winter Workshop* (02/2020), *Southern Economic Association Annual Meeting* (11/2020)
33. Huang, K.\*, **Etienne, X.L.**, and Sant'Anna, A.C. Risk Perceptions, Risk Preferences, and Consumer Willingness-to-Pay for Improved Food Safety. *Food Distribution Research Society Annual Meeting* (10/2020), *North American Regional Science Council Annual Conference* (11/2020)
32. Farhangdoost, S.\* and **Etienne, X.L.** Time-Varying Announcement Effects of EIA Inventory Reports. *AAEA Annual Meeting* (08/2020)
31. Farhangdoost, S.\* and **Etienne, X.L.** Forecasting Natural Gas Prices in the Shale Boom Era. *The Ninth Annual Shale Insight Conference* (poster, 10/2019)
30. Huang, K.\* and **Etienne, X.L.** Do Exploitations of Marcellus and Utica Shale Formations Improve Regional Economy in West Virginia and Ohio? A Synthetic Control Analysis. *The Ninth Annual Shale Insight Conference* (poster, 10/2019), *North American Regional Science Council Annual Meeting* (11/2019), *NAREEA Annual Meeting* (06/2020), *AAEA Annual Meeting* (poster, 08/2020)
29. Scarcioffolo, A.\* and **Etienne, X.L.** Testing Directional Predictability between Energy Commodities. *AAEA Annual Meeting* (07/2019)
28. **Etienne, X.L.**, Farhangdoost, S.\*, and Hoffman, L.A. An Alternative Method to Forecast the Season Average Price of Corn in the U.S. *AAEA Annual Meeting* (07/2019), *USDA ERS Seminar* (07/2019)
27. Baffes, J. and **Etienne, X.L.** Has Yield Growth Stagnated for Major Crops? *AAEA Annual Meeting* (07/2019)
26. Huang, K.\* and **Etienne, X.L.** Do Natural Hazards in the Gulf Coast Still Matter for the State-level Natural Gas Prices in the United States after the Rise of New Production States? *The Eighth Annual Shale Insight Conference* (poster, 10/2018), *AAEA Annual Meeting* (07/2019)
25. Ismailova, Z.\*, Shakya, S.\*, **Etienne, X.L.**, and Mattos, F. Quantifying the Announcement Effect in the U.S. Lumber Market. *NCCC-134* (04/2018), *AAEA Annual Meeting* (poster, 08/2018)
24. Scarcioffolo, A.\* and **Etienne, X.L.** Does Economic Policy Uncertainty Affect Energy Market Volatility and Vice-Versa? *AAEA Annual Meeting* (08/2018)
23. Khurana, R.\*, Mugabe, D., and **Etienne, X.L.** Do Climate Change Induced Natural Disasters Disrupt Legal System Integrity? *AAEA Annual Meeting* (poster, 08/2018)

22. Scarciuffolo, A.\*, **Etienne, X.L.**, and Shen, C. Economic Feasibility of Three-Step Wash Process to Improve Produce Microbial Safety. *Institute of Food Technologists Annual Meeting* (07/2018)
21. **Etienne, X.L.** The Natural Gas Industry in the US: Volatility, Price Drivers, and Market Integration. *Zhejiang Sci-tech University, China* (Invited seminar, 11/2017), *Renmin University of China* (Invited seminar, 11/2017)
20. **Etienne, X.L.** Energy Finance: A Risk Management Perspective. *WVU Energy and Environment Training Program* (Invited seminar, 08/2017)
19. **Etienne, X.L.** Food Commodity Prices in the United States. *Hunan Agricultural University* (Invited seminar, 05/2017)
18. **Etienne, X.L.** and Hoffman, L.A. Dynamic Spatial Integration in the U.S. Distillers Grains Market. *AAEA Annual Meeting* (08/2017)
17. Scarciuffolo, A.\* and **Etienne, X.L.** Dynamic Integration in the Regional U.S. Natural Gas Markets. *NCCC-134* (04/2017), *AAEA* (Poster, 08/2017)
16. Cumming, K.\*, Mattos, F., and **Etienne, X.L.** Evaluating Crop Forecast Accuracy for Corn and Soybeans in the US, Brazil, and Argentina. *NCCC-134* (04/2017)
15. Elbakidze, L., Stephens, H., Strager, M. and **Etienne, X.L.** Policy Relevant Analysis of Demand, Supply, and Utilization of Natural Resources to Facilitate Economic Growth, *Governor's Energy Summit* (poster, 10/2016), *Shale Gas Network Forum* (poster, 11/2016)
14. Li, J.\*, Chavas, J.P., **Etienne, X.L.**, and Li., C. Commodity Price Bubbles and Macroeconomics: Evidence from Chinese Agricultural Markets. *AAEA Annual Meeting* (08/2016)
13. Mugabe, D.\* and **Etienne, X.L.** How Efficient Is Maize Production among Smallholder Farmers in Zimbabwe? *AAEA Annual Meeting* (08/2016)
12. **Etienne, X.L.**, and Mattos, F. The Information Content in the Term Structure of Commodity Prices. *NCCC-134* (04/2016)
11. Baffes, J. and **Etienne, X.L.** Reconciling High Food Prices with Engel and Prebisch-Singer. *Oklahoma State University* (Invited Seminar, 11/2015), *International Monetary Fund* (02/2014)
10. **Etienne, X.L.** The Financialization of Commodity Markets: Do High-Frequency Financial Data Help to Forecast Commodity Prices? *International Conference of Agricultural Economists* (08/2015), *AAEA Annual Meeting* (07/2015)
9. **Etienne, X.L.** and Hoffman, L.A. Price Discovery and Risk Management in the US Distiller's Grain Markets. *AAEA Annual Meeting* (07/2015)
8. Wiggins, S.\* and **Etienne, X.L.** US Natural Gas Determination: Fundamentals and the Development of Shale. *AAEA Annual Meeting* (07/2015)
7. Trujillo-Barrero, A., **Etienne, X.L.**, and Wiggins, S.\* Price and Volatility Transmission among Natural Gas, Fertilizer, and Corn Markets. *International Agricultural Risk, Finance and Insurance Conference* (06/2015)
6. **Etienne, X.L.**, Irwin, S.H., and Garcia, P. Bubbles in Grain Futures Markets: When Are They Most Likely to Occur? *Wilhelms-University, Germany* (Invited Seminar, 06/2014), *NCCC-134* (04/2013)

5. **Etienne, X.L.**, Irwin, S.H., and Garcia, P. \$25 Minneapolis Wheat Had to be a Bubble, Right? *International Agricultural Risk, Finance and Insurance Conference* (06/2014), *3rd Risk Management and Commodity Trading Conference, Brazil* (11/2013)
4. **Etienne, X.L.**, Irwin, S.H., and Garcia, P. A Structural Approach to Disentangling Speculative and Fundamental Influences on the Price of Corn. *NCCC-134* (04/2014), *AAEA Annual Meeting* (08/2013)
3. **Etienne, X.L.**, Irwin, S.H., and Garcia, P. Bubbles in Food Commodity Markets: Four Decades of Evidence. *University of Idaho* (04/2014), *West Virginia University* (02/2014), *University of Tennessee* (02/2014), *University of Maryland* (02/2014), *University of Sao Paulo, Brazil* (11/2013), *Utah State University* (11/2013), *International Monetary Fund* (03/2013)
2. **Etienne, X.L.**, Irwin, S.H., and Garcia, P. Price Explosiveness in Corn, Soybeans, and Wheat Futures. *NCCC-134* (04/2012), *IPDW, University of Illinois* (04/2011), *Regional, Population, Health Environmental Economics Annual Midwest Graduate Student Summit* (04/2011)
1. **Liao (Etienne), X.** and A.E. Winter-Nelson. Salmonella in My Salsa and Melamine in My Milk: Food Safety and the Distribution of Trade-Related Technical Assistance. *AAEA Annual Meeting* (poster, 07/2009), *IPDW, University of Illinois* (05/2009)

## Media Coverage

5. "Food Safety in West Virginia"
  - WVU Today: WVU researchers tackle food safety issues for local farmers. (9/12/2019) <https://wvutoday.wvu.edu/stories/2019/09/12/wvu-researchers-tackle-food-safety-issues-for-local-farmers>
  - WVNews: WVU researchers work to improve food safety (9/29/2019) [https://www.wvnews.com/news/wvnews/wvu-researchers-work-to-improve-food-safety/article\\_ea89edf5-3ea1-5b00-ac87-065314d64074.html](https://www.wvnews.com/news/wvnews/wvu-researchers-work-to-improve-food-safety/article_ea89edf5-3ea1-5b00-ac87-065314d64074.html)
4. "RRI Faculty Research Associate Spotlight: Dr. Xiaoli Etienne." (9/13/2017) <http://rri.wvu.edu/rri-faculty-research-associate-spotlight-dr-xiaoli-etienne/>
3. AAEA Member Spotlight: Xiaoli L. Etienne (12/17/2015) <http://blog.aaea.org/2015/12/member-profile-xiaoli-l-etienne.html>
2. "Price Explosiveness, Speculation, and Grain Futures Prices."   
phys.org: Commodity Market Volatility More Perception than Reality (6/23/2015) <http://phys.org/news/2015-06-commodity-volatility-perception-reality.html>
1. "Bubbles in Food Commodity Markets: Four Decades of Evidence."
  - Financial Times: Commodity Booms, Busts and Bubbles by Gregory Meyer (3/25/2013) <https://www.ft.com/content/ef1ae7e6-9521-11e2-a4fa-00144feabdc0>
  - Reuters: Bubbles in Food Prices by John Kemp (3/26/2013) [www.reuters.com/article/2013/03/26/us-column-kemp-commodity-bubbles-idUSBRE92P16520130326](http://www.reuters.com/article/2013/03/26/us-column-kemp-commodity-bubbles-idUSBRE92P16520130326)

## Grants Received

6. Shen, C. (PI), **Etienne, X.L.**, Jones, L., and Freshour, A. Establishing a Summer Internship Program to Enhance Undergraduate Knowledge and Skills of Food Safety through Research and Extension Activities. *USDA NIFA Research and Extension Experiential Learning for Undergraduate (REEU) Program*, 2020-2024, \$398,997.
5. Elbakdize, L. (PI), **Etienne, X.L.**, Hubbart, J., and Strager, M. INFEWS: Modeling Interdependent FEW systems in the US and China: Nexus for Sustainability, Markets and Trade of Energy and Agricultural Commodities. *National Science Foundation*, 2019-2023, \$494,888.
4. Shen, C. (PI), **Etienne, X.L.**, and Jones, L. Improving the Safety and Quality of Locally Grown Produce in West Virginia. *USDA NIFA Critical Agricultural Research and Extension Program*, 2019-2021, \$195,730.
3. Zhang, Y. (PI), Hansen, F., Shen, C., **Etienne, X.L.**, and Jones, L. Evaluating Antibiotic Resistance in Locally-Grown Fresh Produce with the Aim to Enhance Urban Food Sustainability. *USDA NIFA Institute of Family, Youth and Community, Division of Community and Education, Non-Land Grant Colleges of Agriculture Program (through Wayne State University)*, 2018-2020, \$619,821.
2. **Etienne, X.L.** (PI) Exploring an Alternative Method to Forecast the Season-Average Producer Price for U.S. Corn. *Economic Research Service Cooperative Agreement, US Department of Agriculture*, 2017-2019, \$20,000.
1. Mertz, B. (PI), et al., MRI: Acquisition of Thorny Flat Next Generation Cluster for High-Performance Computing in West Virginia. *National Science Foundation Major Research Instrumentation (MRI)*, 2018-2020, \$989,408 (**Etienne's** role: senior personnel).

## Courses Taught at WVU

- ARE 440 Futures Market and Commodity Prices (3 credit hours)  
Semesters taught: Spring 2015, Spring 2016, Spring 2018, Spring 2019, Spring 2020, Spring 2021 (scheduled)
- ARE 624 Econometric Analysis for Resource Economics (3 credit hours)  
Semesters taught: Fall 2015, Fall 2016, Fall 2017, Fall 2018, Fall 2019, Fall 2020
- ARE 601 Microeconomics (4 credit hours)  
Semesters taught: Fall 2016, Fall 2017, Fall 2018, Fall 2019, Fall 2020
- ARE 799 Seminars on Energy Economics (1 credit hour)  
Semesters taught: Fall 2016, Spring 2017
- ARE 796 Graduate Seminar (1 credit hour)  
Semesters taught: Spring 2020, Spring 2021 (scheduled)

## Student Advising

### Current Graduate Students as Committee Chair

- **Sara Farhangdoost**, Ph.D., *Three Essays on Commodity Price Forecasting and Volatility*, Division of Resource Economics and Management, WVU



- **Kuan-Ming Huang**, Ph.D., *Three Essays on Applied Econometrics in Energy and Agriculture*, Division of Resource Economics and Management, WVU
- **Richard Vest**, M.S. in Energy Environments, Davis College, WVU

#### Current Graduate Students as Committee Member

- WVU Division of Resource Economics and Management: Michael Cary, Ph.D.; Shabani Kariburyo, Ph.D.; Ritika Khurana, Ph.D.; Zachary Keeler, Ph.D.
- Other Departments/Universities: Wentao Jiang (WVU, Animal and Nutritional Sciences); KaWang Li (WVU, Animal and Nutritional Sciences); Xufeng Zheng (WVU, Forestry and Natural Resources); Xue Han, Ph.D. (University of Illinois, Agricultural and Applied Economics)

#### Previous Graduate Students as Committee Chair

- **Alexandre Scarcioffolo**, Ph.D., *Three Essays on Energy Economics*, graduated in May 2020. Initial placement: Assistant Professor, Department of Economic, Georgia College & State University, Milledgeville, GA
- **Zarina Ismailova**, M.S., *Quantifying the Announcement Effects in the U.S. Lumber Market*, graduated in May 2019. Initial placement: Financial Analyst at Chatel Real Estate, Washington, D.C.
- **David Aratuo**, Ph.D., *Three Essays on Tourism Demand and Economic Development in the United States*, co-advised with Dr. Peter Schaeffer, graduated in December 2018. Initial placement: Research Fellow, School of Conflict Analysis and Resolution, George Mason University, Fairfax, VA
- **Mostafa Hashemi**, M.S., *The Linkage Between US Dollar Exchange Rate and Oil Prices*, graduated in 12/2017. Initial placement: Graduate Student in WVU Educational Psychology, Morgantown, WV
- **Seth Wiggins**, Ph.D., *Three Essays on Energy Economics*, graduated in 08/2016. Initial placement: Visiting Assistant Professor, Department of Economics, Colorado School of Mines, Golden, CO

#### Previous Graduate Students as Committee Member

- WVU Division of Resource Economics and Management: Douglas Mugabe, Ph.D. (08/2020); Fahad Alzahrani, Ph.D. (12/2019); Michael O'Connor, M.S. (08/2019); Collin Hodges, Ph.D. (08/2019); Yiming He, Ph.D. (05/2019); Marissa Meltzer, M.S. (05/2019); Mousa Tawfeeq, Ph.D. (08/2018); Adama Warr, M.S. (05/2018); Addie Thornley, M.S. (05/2018); Sapana Bastola, M.S. (12/2017); Abiola Owoeye, M.S. (05/2017); Adebisi Adebode, M.S. (05/2017); Christopher Schultz, Ph.D. (12/2015).
- Other Departments/Universities: Yu-Chun Chiu (WVU, Plant and Soil Sciences, 08/2019); Qinling Lu, Ph.D. (WVU, Economics, 05/2019); Taining Wang, Ph.D. (WVU, Economics, 05/2019); Jinjing Tian, Ph.D. (WVU, Economics, 05/2018); Fan Zhang, Ph.D. (WVU, Economics, 12/2016)

#### Other Advising Activities

- Ph.D. Second-Year Mentored Research Paper Advisor, WVU Division of Resource Economics and Management: Sara Farhangdoost (2018-2019); Kuan-Ming Huang (2017-2018), Alexandre Scarcioffolo (2017-2018); Douglas Mugabe (2016-2017)

- Undergraduate Research Advisor, WVU Division of Resource Economics and Management: Stephen Sullivan (2014-2015), project awarded the 2nd place in the M.S. research category, the 2015 WVU Davis College Graduate Student Research and Creative Scholarship Conference and was featured on WVU Mountaineer News

## Service Activities

- Service to the Profession

2020-present	Executive Board, Northeastern Agricultural and Resource Economics Association (NAREA)
2020-present	Editorial Council, Journal of Agricultural and Applied Economics
2019-present	Selected paper and symposium committee, Northeastern Agricultural and Resource Economics Association (NAREA)
2017-2020	Master's thesis award committee, Northeastern Agricultural and Resource Economics Association (NAREA)
2020	Grant Reviewer, USDA Regional Food System Partnership Program (FSPP)
2020	Ad-Hoc Reviewer, USDA Economic Research Service Report
2018-2019	Grant reviewer, USDA Farmers Market Promotion Program (FMPP)
2017-2019	Topic leader, Agricultural and Applied Economics Association (AAEA)
2017-2018	Co-guest editor, <i>Agricultural Finance Review</i> , Special issue on "Agricultural Credit and the Changing Landscape of American Agriculture,"
2015-2018	Secretary/Treasurer, Agricultural Finance and Management Section, AAEA
2015-2018	Membership committee, AAEA
2013, 2017	Session moderator, AAEA Annual Meetings
2015	Judge, AAEA undergraduate paper competition committee

- Service to the Davis College of Agriculture, Natural Resources and Design (WVU)

2018-2020	Student Research and Creative Scholarship committee
2015-2018	Judge, Graduate Student Research and Creative Scholarship Conference
2016, 2018	Hatch proposal reviewer
2017	Search committee, Associate Dean for Research
2015-2017	Special events committee
2015-2016	Davis-Michael Distinguished Lecture committee

- Service to the Division of Resource Economics and Management (WVU)

2016-present	Mentored research paper reviewer
2014-present	Graduate committee
2018-2019	Faculty search committee

## Referee Services

*Agribusiness, Agricultural and Resource Economics Review, Agricultural Economics, Agricultural Finance Review, The American Journal of Agricultural Economics, Applied Economics, Applied Economic Letters, Applied Economic Perspectives and Policy, Canadian Journal of Agricultural Economics, China Agricultural Economics Review, Emerging Markets Finance and Trade, Empirical Economics, Energies, Energy Economics, The Energy Journal, Environment Development, European Review of Agricultural Economics, Global Economic Review, International Journal of Climate Change Strategies and Management, International Journal of Contemporary Hospitality and Management, International Review of Economics and Finance, Food*

*Policy, Nature Sustainability, Journal of Commodity Markets, Journal of Agricultural and Resource Economics, PLOS ONE, Quantitative Finance, Review of Industrial Organization.*