

XIAOLI ETIENNE

Professor

Idaho Wheat Commission Bill Flory Endowed Chair in Risk Management
Department of Agricultural Economics and Rural Sociology, University of Idaho
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Education

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

Employment

- 08/2021–Present **University of Idaho, Moscow, ID**
Professor (05/2025–Present)
Associate Professor (08/2021–05/2025)
Idaho Wheat Commission Endowed Chair in Risk Management (08/2021–Present)
Department of Agricultural Economics and Rural Sociology
Appointment: 55% research, 20% teaching, 15% extension, 10% service
- 11/2025–Present **Washington State University, Pullman, WA**
Adjunct Faculty, School of Economic Sciences
- 08/2014–Present **West Virginia University, Morgantown, WV**
Adjunct Faculty (08/2021–Present)
Associate Professor (08/2019–07/2021)
Assistant Professor (08/2014–07/2019)
Division of Resource Economics and Management
Appointment: 40% research, 40% teaching, 20% service
- 08/2014–08/2021 **West Virginia University, Morgantown, WV**
Faculty Research Associate, Regional Research Institute
- 12/2013–06/2014 **The World Bank Group, Washington, DC**
Short-Term Consultant
- 08/2007–07/2013 **University of Illinois at Urbana-Champaign, Urbana, IL**
Research and Teaching Assistant

Research Interests

- Primary: Risk Management, Price Analysis and Forecasting, Futures and Options Markets
Secondary: Applied Econometrics, Consumer Marketing, Policy Analysis

Awards and Honors

2025	Idaho 500 Honoree, <i>Idaho Business Review</i>
2015, 2017, 2018	Outstanding Researcher, 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, <i>Agricultural Finance Review</i> (Emerald Literati Awards)
2015	Big XII Faculty Fellow, West Virginia University

Peer-Reviewed Publications

* denotes a student coauthor when the majority of the work was completed.

denotes corresponding author when different from the first author.

62. Zhang, Q., and **Etienne, X.L.** Trust, Self-Efficacy, and Risk: Behavioral Drivers of Consumer Acceptance of Gene Editing and Nanotechnology in Poultry Production. *Forthcoming. Journal of Behavioral and Experimental Economics.*
61. K C, S. *, **Etienne, X.L.** #, and Trujillo-Barrera, A. Vertical Price Transmission in Food Markets: New Evidence from Meta-analysis. *Forthcoming. Agribusiness: An International Journal.* doi: 10.1002/agr.70130
60. Thomas, P. *, and **Etienne, X.L.** # Do Tax Policies Affect the Natural Gas Industry? Evidence Based on Panel Vector Autoregressions. *Energy Sources, Part B: Economics, Planning, and Policy.* 21(1): 2685835. doi: 10.1080/15567249.2026.2685835
59. Zhao, M. *, **Etienne, X.L.**, Tejeda, H., # and Trujillo-Barrera, A. 2026. What Dairy Processors Say About Net Zero: Insights from Industry Leaders. *Forthcoming. Applied Economics Education and Extension.*
58. Zhao, M. *, **Etienne, X.L.**, Tejeda, H., and Trujillo-Barrera, A. # 2026. Net Zero by 2050: Is Dairy Processing Ready? An Evaluation of the Top Dairy Companies' Emissions Reduction Goals. *Choices.* 41(1): 1-9. doi: 10.22004/ag.econ.371496
57. **Etienne, X.L.**, Durongkadej, I., and Scarcioffolo, A. 2026. Policy Uncertainty and Tail Risk in Energy Futures: The Role of Maturity and Storage Capacity Constraints. *Forthcoming. Journal of Financial Research.* doi: 10.1111/jfir.70048.
56. Couleau, A., Trujillo-Barrera, A. #, and **Etienne, X.L.** 2026. Dynamic Time Series Momentum: The Case of Intraday Coffee Futures Prices. *Journal of Commodity Markets.* 41: 100537. doi: 10.1016/j.jcomm.2025.100537.
55. Thomas, P. *, Collins, A., and **Etienne, X.L.** # 2026. State-level Policies and Renewable Energy Generation in the United States. *Utilities Policy.* 98: 102080. doi: 10.1016/j.jup.2025.102080.
54. Lai, T. *, **Etienne, X.L.**, Hu, Z. #, and Peng, K. 2026. Price Bubbles and Contributing Factors: Evidence from the Chinese Urea Fertilizer Market. *Applied Economics Letters.* 33(9): 1449-1453. doi: 10.1080/13504851.2024.2431660.
53. Khurana, R. *, Elbakidze, L., and **Etienne, X.L.** # 2025. Institutional Integrity and Carbon Emissions. *Forthcoming. Applied Economics.* doi: 10.1080/00036846.2025.2548407.
52. Li, Y. *, Huang, K., Guan, Z. #, and **Etienne, X.L.** 2025. From Surplus to Deficit: Decoding the Fundamental Shift in U.S. Agricultural Trade. *Applied Economic Perspectives and Policy.* 47(5): 1774–1790. doi: 10.1002/aepp.70023.
51. Nie, F., **Etienne, X.L.**, Li, J. #, and Hu, H. * 2025. Trade Liberalization and Manufacturing Robot Adoption: Evidence from Chinese Free Trade Agreements. *China Economic Review.* 94: 102531. doi: 10.1016/j.chieco.2025.102531.
50. **Etienne, X.L.**, Li, B. #, and Liu, R. 2025. Detangling Risk Premiums: Common and Idiosyncratic Components of Commodity Futures. *Journal of Futures Markets.* 45(9): 1409–1427. doi: 10.1002/fut.70001.

49. MacLachlan, M.J., Adjemian, M.K., **Etienne, X.L.**, Sweitzer, M., Volpe III, R., and Zeng, W. 2025. Adaptive Food Price Forecasts Enhance Public Information During Rapid Economic Changes. *Nature Communications*. 16: 6282. doi: 10.1038/s41467-025-61660-x.
48. Hu, Z., Yan, L., Yuan, J. *, and **Etienne, X.L.**# 2025. Deconstructing Fertilizer Price Spikes: Evidence from the Chinese Urea Fertilizer Market. *Food Policy*. 133: 102829. doi: 10.1016/j.foodpol.2025.102829.
47. Huang, K. *, **Etienne, X.L.**#, and Sant'Anna, A.C. 2025. Risk Perceptions, Risk Preferences, and Consumer Willingness-to-Pay for Improved Food Safety. *Journal of Agricultural and Applied Economics*. 57(3): 514–543. doi: 10.1017/aae.2025.14.
46. Xu, Y., Wang, L. *, Li, J.#, and **Etienne, X.L.** 2025. The Impact of Trading Volume on Liquidity and Price in Futures Markets: Disentangling the Role of Informed Trading. *Agribusiness: An International Journal*. 41(2): 342–362. doi: 10.1002/agr.21887.
45. Nading, M. *, **Etienne, X.L.**#, Trujillo-Barrera, A., Hatzenbuehler, P., and Wilder, B. 2024. Factors Influencing Wheat Marketing Decisions: Insights from Idaho Focus Groups. *Western Economics Forum*. 22(1): 65–76. doi: 10.22004/ag.econ.349294.
44. Wang, L. *, **Etienne, X.L.**#, and Li, J. 2024. Food–Fuel Nexus Beyond Mean–Variance: New Evidence from a Quantile Approach. *Journal of Commodity Markets*. 36: 100441. doi: 10.1016/j.jcomm.2024.100441.
43. Baffes, J., and **Etienne, X.L.**# 2024. Yield Growth Patterns of Food Commodities: Insights and Challenges? *PLoS ONE* . 19(11): e0313088. doi: 10.1371/journal.pone.0313088.
 - Also appeared as: Baffes, J., and **Etienne, X.L.** 2024. Yield Growth Patterns of Food Commodities: Insights and Challenges? *World Bank Policy Research Working Paper*. 10990.
42. Hand, T. *, **Etienne, X.L.**, Tejeda, H., and Trujillo-Barrera, A.# 2024. U.S. Dairy Going Toward Net Zero: What Do Idaho Dairy Producers Say? *Choices*. 39(4): 1–8. doi: 10.22004/ag.econ.348146.
41. Thomas, P. *, Collins, A., **Etienne, X.L.**#, and Mugabe, D. 2024. Impacts of State Tax and Resource Ownership Policies on Extraction: Evidence from U.S. Natural Gas Production. *Energy Economics*. 138: 107869. doi: 10.1016/j.eneco.2024.107869.
40. Li, J. *, Zhang, Q., and **Etienne, X.L.**# 2024. Optimal Carbon Emission Reduction Path of the Building Sector: Evidence from China. *Science of the Total Environment*. 170553. doi: 10.1016/j.scitotenv.2024.170553.
39. **Etienne, X.L.**, Farhangdoost, S. *, Hoffman, L.A., and Adam, B. 2023. An Alternative Method to Forecast the Season-Average Farm Price of Corn in the U.S. *Journal of Commodity Markets*. 30: 100333. doi: 10.1016/j.jcomm.2023.100333.
38. Nie, F., Li, J.#, and **Etienne, X.L.** 2023. Impact of Outward Foreign Direct Investment on Chinese Firms' Financialization and Servitization. *China & World Economy*. 31(2): 112–136. doi: 10.1111/cwe.12473.
37. Li, J. *, Irwin, S.H., and **Etienne, X.L.** 2023. Do Extreme CIT Position Levels Have Market Impacts in Grain Futures Markets? *Journal of Agricultural and Applied Economics*. 54(4): 792–814. doi: 10.1017/aae.2022.40.
36. Xu, Y., Elbakidze, L., and **Etienne, X.L.** 2022. Unconventional Oil and Gas Production and Agricultural Land Use in the United States. *Journal of Agricultural and Resource Economics*. 48(2): 219–236. doi: 10.22004/ag.econ.320672.
35. Zhang, Q., **Etienne, X.L.**, Wang, Z.#, and Ding, R. 2022. Reducing Coal Overcapacity in China: A New Perspective of Optimizing Local Officials' Promotion System. *Environmental Science and Pollution Research*. doi: 10.1007/s11356-022-22010-2.
34. Nuñez, H., Trujillo-Barrera, A., and **Etienne, X.L.** 2022. Declining Integration in the U.S. Natural Gas Market. *Resources Policy*. 78: 102872. doi: 10.1016/j.resourpol.2022.102872.

33. Khurana, R.^{*}, Mugabe, D.^{*}, and **Etienne, X.L.** 2022. Climate Change, Natural Disasters, and Institutional Integrity. *World Development*. 157: 105931. doi: 10.1016/j.worlddev.2022.105931.
32. Shakya, S.^{*}, Li, B., and **Etienne, X.L.**[#] 2022. Shale Revolution, Rig Activities, and Oil and Gas Prices in the United States. *Energy Economics*. 108: 105877. doi: 10.1016/j.eneco.2022.105877.
31. Huang, K.^{*}, and **Etienne, X.L.**[#] 2021. Impact of Marcellus and Utica Shale Exploitation on Ohio, Pennsylvania, and West Virginia Regional Economies: A Synthetic Control Analysis. *Papers in Regional Science*. 100(6): 1449–1479. doi: 10.1111/pirs.12628.
30. Huang, K.^{*}, Sant’Anna, A.C., and **Etienne, X.L.** 2021. How Did COVID-19 Impact U.S. Household Food Spending? An Analysis Six Months In. *PLoS ONE*. 16(9): e0256921. doi: 10.1371/journal.pone.0256921.
29. Scarciuffolo, A.^{*}, and **Etienne, X.L.** 2021. Testing Directional Predictability Between Energy Prices: A Quantile-Based Analysis. *Resources Policy*. 74: 102258. doi: 10.1016/j.resourpol.2021.102258.
28. Zhang, S.^{*}, Collins, A.[#], **Etienne, X.L.**, and Ding, R. 2021. The Environmental Effects of International Trade in China: Measuring the Mediating Effects of Technology Spillovers of Import Trade on Industrial Air Pollution. *Sustainability*. 13: 6895. doi: 10.3390/su13126895.
27. Scarciuffolo, A.^{*}, and **Etienne, X.L.** 2021. Regime Switching Energy Market Volatility: The Role of Economic Policy Uncertainty. *International Review of Economics and Finance*. 76: 336–356. doi: 10.1016/j.iref.2021.05.012.
26. Huang, K.^{*}, and **Etienne, X.L.**[#] 2021. 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*. 98: 105267. doi: 10.1016/j.eneco.2021.105267.
25. Jiang, W.^{*}, Paudel, S.^{*}, Amarasekara, N.^{*}, Zhang, Y., **Etienne, X.L.**, Jones, L.^{*}, Li, K.^{*}, Hansen, F., Jaczynski, J., and Shen, C.[#] 2021. Survey of Small Produce Growers’ Perception of Antibiotic Resistance Issues at Farmers Markets. *Food Control*. 125: 1079–1097. doi: 10.1016/j.foodcont.2021.107997.
24. Lawson, J.^{*}, Alam, M.R.[#], and **Etienne, X.L.** 2021. Speculation and Food-Grain Prices. *Applied Economics*. 53: 2305–2321. doi: 10.1080/00036846.2020.1859451.
23. Ismailova, Z.^{*}, **Etienne, X.L.**[#], Shakya, S.^{*}, and Mattos, F. 2020. Quantifying the Announcement Effects in the U.S. Lumber Futures Market. *Journal of Forest Economics*. 35(4): 375–395. doi: 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.
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.
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.
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.
18. Scarciuffolo, 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.
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.

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.
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. doi: 10.22004/ag.econ.302473.
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.
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.
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.
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.
10. Wiggins, S.^{*}, and **Etienne, X.L.** 2017. Turbulent Times: Uncovering the Origins of U.S. Natural Gas Price Fluctuations Since Deregulation. *Energy Economics*. 64: 196–205. doi: 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.
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. doi: 10.22004/ag.econ.252754.
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.
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/oeq/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.
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.
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.
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.
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. doi: 10.22004/ag.econ.134270.

Other Publications

* denotes a student coauthor when the majority of the work was completed.

denotes corresponding author when different from the first author.

24. K.C., S.* , **Etienne, X.L.**, and Hatzenbuehler, P.# 2026. Basics of Trading Grain Futures and Options *University of Idaho Extension*. BUL-1135 (peer-reviewed). <https://www.uidaho.edu/extension/publications/bul-1135>.
23. **Etienne, X.L.** and Zhang, Q. 2026. Fuel Prices and What's Shaping the Market. *AgProud Idaho*. January 2026 issue. <https://www.agproud.com/articles/62627-fuel-prices-and-whats-shaping-the-market>.
22. **Etienne, X.L.** and Zhang, Q. 2025. Elevated Fertilizer Prices Continue to Squeeze Farmers' Margins. *AgProud Idaho*. December 2025 issue. <https://www.agproud.com/articles/62451-elevated-fertilizer-prices-continue-to-squeeze-farmers-margins>.
21. Baffes, J., and **Etienne, X.L.** 2025. Yield Growth Patterns of Food Commodities: Insights and Challenges. *FAO AMIS (Agricultural Market Information System) Market Monitor*. February 2025 issue (No. 125) (**featured article**). <https://www.amis-outlook.org/market-monitor>.
20. Baffes, J., and **Etienne, X.L.** 2025. Yield Growth Patterns of Food Commodities: Insights and Challenges. *World Bank Blogs*. February 25, 2025. <https://blogs.worldbank.org/en/developmenttalk/yield-growth-patterns-of-food-commodities--insights-and-challeng>.
19. **Etienne, X.L.** and Zhang, Q. 2025. Fertilizer Prices Stabilize in 2024, But Uncertainty Continues. *AgProud Idaho*. January 2025 issue. (**AgProud Idaho's third most downloaded article in 2025**). <https://www.agproud.com/articles/60732-fertilizer-prices-stabilize-in-2024-but-uncertainty-continues>.
18. Pahari, S.* , and **Etienne, X.L.**# 2025. Farmland Values in Idaho: Trends and Factors at Play. *University of Idaho Extension Research Bulletin*. RES 211 (peer-reviewed). <https://www.uidaho.edu/extension/publications/publication-detail?id=res0211>.
17. Pahari, S.* , **Etienne, X.L.**# , and Zhang, Q. 2025. Wheat Export from the United States and from the Columbia River Port. *University of Idaho Extension Research Bulletin*. RES0210 (peer-reviewed). <https://www.uidaho.edu/extension/publications/publication-detail?id=res0210>.
16. **Etienne, X.L.** and Zhang, Q. 2025. Fuel Price Trends Bring Slight Relief and Stability for Idaho Farmers. *AgProud Idaho*. February 2025 issue. <https://www.agproud.com/publications/20/editions/1078>.
15. Hatzenbuehler, P., and **Etienne, X.L.** 2024. Analyzing Idaho Crop Input Costs and 2024 Projections. *AgProud Idaho*. March 2024 issue. <https://www.agproud.com/articles/59090-analyzing-idaho-crop-input-costs-and-2024-projections>.
14. **Etienne, X.L.** and Hand, T.* 2023. Fertilizer Market in Review: What Comes for 2024? *AgProud Idaho*. December 2023 issue (**AgProud Idaho's most downloaded article in 2024**). <https://www.agproud.com/articles/58574-fertilizer-market-review-what-will-2024-bring>.
13. Hand, T.* , and **Etienne, X.L.** 2023. Marketing Strategies for Idaho Wheat Producers: Identifying Top Performers. *University of Idaho Extension Research Bulletin*. RES 208 (peer-reviewed). <https://www.uidaho.edu/extension/publications/publication-detail?id=res0208>.
12. Hand, T.* , and **Etienne, X.L.** 2023. Margin Protection Crop Insurance for Idaho Corn Growers. *University of Idaho Extension Bulletin*. BUL1059 (peer-reviewed). <https://www.uidaho.edu/extension/publications/publication-detail?id=bul1059>.
11. **Etienne, X.L.** and Hand, T.* 2023. Back to Basics: Hedging and Basis in Grain Marketing. *University of Idaho Extension Bulletin*. BUL1058 (peer-reviewed). <https://www.uidaho.edu/extension/publications/bul-1058>.

10. Hand, T.^{*}, and **Etienne, X.L.** 2023. Managing Price Risks Using Grain Contracts. *University of Idaho Extension Bulletin*. BUL1055 (peer-reviewed). <https://www.uidaho.edu/extension/publications/bul-1055>.
9. **Etienne, X.L.** 2023. Taking Price Risk Management to the Next Level. *Idaho Grain*. Spring 2023. <https://www.idahograin.org/wp-content/uploads/2023/04/Idaho-Grain-Spring-2023-Web.pdf>.
8. **Etienne, X.L.** 2022. Input Costs: Global and National Overview. *Ag Talk Tuesday*. October 2022. <https://www.uidaho.edu/-/media/UIDaho-Responsive/Files/Extension/topic/ag-talk-tuesday/2022-ag-talk-report-october.pdf>.
7. **Etienne, X.L.** 2022. Russia Invasion to Ukraine Affects Idaho Agriculture. *AgProud Idaho*. May 2022 issue. <https://www.agproud.com/digital-edition/2022/05/viewer/desktop/>.
6. Hatzenbuehler, P., and **Etienne, X.L.** 2022. Planted Area Response to Crop and Fertilizer Prices in the Pacific Northwest. *AgProud Idaho*. February 2022 issue. <https://www.agproud.com/digital-edition/2022/02/viewer/desktop/>.
5. Shen, C., Jones, L., and **Etienne, X.L.** 2020. Triple-Wash with SaniDate to Improve Shelf-life of Butternut Squashes. *WV Small Farm Conference Newspaper*. February 2020.
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 Yeager, E. 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.
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. <http://www.ifpri.org/sites/default/files/publications/ifpridp00900.pdf>.

Papers Under Review and in Preparation

^{*} denotes a student coauthor when the majority of the work was completed.

[#] denotes corresponding author when different from the first author.

13. Dhakal, A.^{*}, **Etienne, X.L.**, and Trujillo-Barrera, A. Impact of Weather Disturbances on Wheat Price Spread. Revise and resubmit. *Agribusiness: An International Journal*.
12. Zhang, Q., and **Etienne, X.L.** Framed by Risk: Understanding Consumer Valuation of Mobile Poultry Processing Units in the United States. Under review.
11. Bastakoti, S.^{*}, **Etienne, X.L.**, and Tejeda, J.[#] From Slaughter to Supper: A Spatial Framework for Modeling Beef Product Flows and Food Miles in the United States. Under review.
10. Zhang, Q., and **Etienne, X.L.** Latent Motives, Information Framing, and Willingness to Pay for Animal Welfare in Poultry Production. Under review.
9. Nie, F., **Etienne, X.L.**, and Li, J.[#] Smarter Infrastructure, Smarter Firms? Impact of Urban Metro-Rail Transit Development on Firms' Robot Adoption in China. Under review.
8. Jo, J., **Etienne, X.L.**, and Adjemian, M. Inflationary Effects of Biofuel Policy Shocks. Working paper available.

7. K.C., S.^{*}, **Etienne, X.L.**, and Trujillo-Barrera, A. Machine Learning Meets Meta-Analysis: Vertical Price Transmission in Food Markets. Working paper available.
6. Adhikari, S.^{*}, **Etienne, X.L.**, Trujillo-Barrera, A., McConnell, M., and Adam, B. Estimating the Impact of Rising International Production and Trade on Corn Price Dynamics. Working paper available.
5. Farhangdoost, S.^{*}, and **Etienne, X.L.** Forecasting Natural Gas Prices in the Shale Boom Era. Working paper available.
4. Farhangdoost, S.^{*}, and **Etienne, X.L.** Time-Varying Announcement Effect of EIA Inventory Reports. Working paper available.
3. Baffes, J., and **Etienne, X.L.** Food Commodity Price Movements: Disentangling the Role of Supply–Demand Fundamentals. Work in progress.
2. Scarciuffolo, A., and **Etienne, X.L.** Energy Price Shocks: The Case of the Diesel Market in Brazil. Work in progress.
1. Franken, J., **Etienne, X.L.**, and Irwin, S.H. Farmland Price Bubbles. Work in progress.

Grants Received

Total grants received as PI and co-PI: **\$4,416,642**. My spending authority: **\$1,290,564**.

16. **Etienne, X.L.** (PI), Jo, J., Trujillo-Barrera, A., and Hatzenbuehler, P. Global barley market analysis and opportunities for US barley. *Idaho Barley Commission*, 2026–2027. \$19,469.
15. **Etienne, X.L.** (PI), Trujillo-Barrera, A., and Tejeda, H. Sustainable dairy supply chain toward the net-zero initiative. *USDA NIFA AFRI Foundational and Applied Science Program, Economics, Markets and Trade*, 2024–2028. \$649,990. My spending authority: \$336,442.
14. **Etienne, X.L.** (PI), Trujillo-Barrera, A., Tejeda, H., Ruhoff, N., and Wilder, B. Cultivating future ag marketing leaders: A summer research and extension program on agricultural commodity marketing and risk management. *USDA NIFA AFRI Education and Workforce Development Program, Research and Extension Experiences for Undergraduates (REEU)*, 2024–2029. \$749,997. My spending authority: \$296,506.
13. **Etienne, X.L.** (PI), Mayes, I., Van Buren, J., Raney, T., Wang, J., and Ghimire, N. PEARS: Providing educational agriculture to rural schools. *USDA NIFA Food and Agricultural Service Learning Program (FASLP)*, 2024–2026. \$239,997. My spending authority: \$128,937.
12. **Etienne, X.L.** (PI), Tejeda, H., Wilder, B., Thompson, J., and Bass, P. Sustainability impacts of post-harvest beef flows. *National Cattlemen’s Beef Association*, 2024–2026. \$48,030. My spending authority: \$24,015.
11. **Etienne, X.L.** (PI), Trujillo-Barrera, A., Hatzenbuehler, P., and Wilder, B. Meeting critical needs for targeted marketing and risk management strategies for Idaho grain producers. *USDA NIFA AFRI Foundational and Applied Science Program, Critical Agricultural Research and Extension (CARE)*, 2023–2026. \$300,000. My spending authority: \$220,000.
10. Shen, C. (PI), Luo, Y., **Etienne, X.L.**, and Jones, L. Applying triple-wash and nanotechnology to mitigate microbial cross-contamination on locally grown produce through integrated research and extension activities. *USDA NIFA AFRI Foundational and Applied Science Program, Critical Agricultural Research and Extension (CARE)*, 2023–2025. \$300,000. My spending authority: \$39,932.
9. Adjemian, M. (PI), **Etienne, X.L.**, and Volpe, R. Incorporating additional data into the food price outlook for improved precision and causal inference. *USDA Economic Research Service (ERS) Cooperative Agreement*, 2022–2025. \$75,000. My spending authority: \$13,166.

8. Shen, C. (PI), **Etienne, X.L.**, Kenny, B., and Jones, L. Improving microbial safety and marketing of West Virginia locally pastured broilers by establishing a mobile poultry processing unit through research and extension activities. *USDA NIFA AFRI Foundational and Applied Science Program, Critical Agricultural Research and Extension (CARE)*, 2022–2025. \$299,192. My spending authority: \$67,959.
7. **Etienne, X.L.** (PI) and Trujillo-Barrera, A. Estimating the effects of rising international corn production and trade on the U.S. and global corn markets. *USDA Economic Research Service (ERS) Cooperative Agreement*, 2021–2023. \$25,000. My spending authority: \$18,358.
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 AFRI Education and Workforce Development Program, Research and Extension Experiences for Undergraduates (REEU)*, 2020–2024. \$398,997. My spending authority: \$55,264.
5. Elbakidze, L. (PI), **Etienne, X.L.**, Hubbard, J., and Strager, M. INFIEWS: Modeling interdependent FEW systems in the U.S. and China: Nexus for sustainability, markets, and trade of energy and agricultural commodities. *National Science Foundation*, 2019–2023. \$494,888. My spending authority: ~\$20,000 (also advised the project postdoctoral researcher on relevant activities).
4. Shen, C. (PI), **Etienne, X.L.**, and Jones, L. Improving the safety and quality of locally grown produce in West Virginia. *USDA NIFA AFRI Foundational and Applied Science Program, Critical Agricultural Research and Extension (CARE)*, 2019–2021. \$195,730. My spending authority: \$27,985.
3. Zhang, Y. (PI), Hansen, F., Shen, C., **Etienne, X.L.**, and Jones, L. Evaluating antibiotic resistance in locally grown fresh produce 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. My spending authority: ~\$22,000.
2. **Etienne, X.L.** (PI) Exploring an alternative method to forecast the season-average producer price for U.S. corn. *USDA Economic Research Service (ERS) Cooperative Agreement*, 2017–2019. \$20,000. My spending authority: \$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**: senior personnel).

Pending Grants

1. **Etienne, X.L.** (PI), Zhang, Q., Han, T., Shen, C., and Luo, Y. Improving microbial safety of locally grown fresh produce with nanotechnology: Consumer and producer perceptions. *USDA NIFA AFRI Foundational and Applied Science Program, Social Implications of Food and Agricultural Technologies*, 2026–2028. \$299,998.

Conference and Other Research Presentations

* denotes a student coauthor when the majority of the work was completed.

Includes presentations made by coauthors.

61. Jo, J., **Etienne, X.L.**, and Adjemian, M. Inflationary Effects of Biofuel Policy Shocks. *WAEA Annual Meeting* (Scheduled, 06/2026, Flagstaff, AZ.); *AAEA Annual Meeting* (Scheduled, 07/2026, Kansas City, MO.); *9th J.P. Morgan Center International Commodities Symposium* (Scheduled, 08/2026, Denver, CO.)
60. Shrestha, A. *, Zhang, Q., **Etienne, X.L.**, Trujillo-Barrera, A., and Tejeda, H. Making carbon taxes more acceptable: Evidence from U.S. consumers and dairy products. *AAEA/WAEA Annual Meeting* (Scheduled, 07/2026, Kansas City, MO.)

59. Shrestha, A.^{*}, Zhang, Q., **Etienne, X.L.**, Trujillo-Barrera, A., and Tejeda, H. How do alternative climate mitigation claims affect WTP in dairy markets? *AAEA/WAEA Annual Meeting* (Scheduled, 07/2026, Kansas City, MO.)
58. Shrestha, A.^{*}, Zhang, Q., **Etienne, X.L.**, Trujillo-Barrera, A., and Tejeda, H. Do nudges affect the demand for low-carbon milk products? Evidence from consumer choices and willingness to pay. *AAEA/WAEA Annual Meeting* (Scheduled, poster, 07/2026, Kansas City, MO.)
57. Ming, Z.^{*}, **Etienne, X.L.**, Trujillo-Barrera, A., and Tejeda, H. Insights from U.S. Dairy Processors' Sustainability Efforts Towards Net Zero by 2050. *NC1034: Impact Analyses and Decision Strategies for Agricultural Research Annual Meeting* (03/2026, Fort Worth, TX.); *WAEA Annual Meeting* (06/2026, Flagstaff, AZ.)
56. Zhang, Q., Brouwer, M.^{*}, and **Etienne, X.L.** Detangling Egg Price Spikes in the United States. *AAEA/WAEA Annual Meeting* (poster, 07/2025, Denver, CO).
55. Zhang, Q., and **Etienne, X.L.** Animal Welfare Preferences in Poultry Product Valuation. *AAEA/WAEA Annual Meeting* (poster, 07/2025, Denver, CO).
54. Franken, J., **Etienne, X.L.**, and Irwin, H. Farmland Price Bubbles. *AAEA/WAEA Annual Meeting* (07/2025, Denver, CO).
53. Li, Y.^{*}, Huang, K., Guan, Z., and **Etienne, X.L.** From Surplus to Deficit: Decoding the Fundamental Shift in U.S. Agricultural Trade. *SAEA Annual Meeting* (02/2025, Irving, TX); *AAEA/WAEA Annual Meeting* (07/2025, Denver, CO).
52. Scarciuffolo, A., and **Etienne, X.L.** Energy Price Shocks: The Case of the Diesel Market in Brazil. *9th Latin American Energy Economics Meeting* (07/2024, Rio de Janeiro, Brazil); *Southern Economic Association Annual Meeting* (11/2024, Washington, DC); *IAEE International Conference* (06/2025, Paris, France).
51. **Etienne, X.L.** Energy Price Shocks and Commodity Prices. *AAEA Annual Meeting Post-Conference Workshop* (07/2024, New Orleans, LA).
50. K.C., S.^{*}, **Etienne, X.L.**, and Trujillo-Barrera, A. Price Transmission in Commodity Markets: A Meta-Analysis. *WAEA Annual Meeting* (06/2024, San Francisco, CA).
49. Baffes, J., and **Etienne, X.L.** Food Commodity Price Movements: Disentangling the Role of Supply–Demand Fundamentals. *AAEA Annual Meeting* (07/2023, Washington, DC); *Workshop on Improving Global Market Monitoring by the Agricultural Market Information System (AMIS), FAO, and IFPRI* (10/2023, virtual); *24th Session of the Global Food Market Information Group (AMIS)* (11/2023, Geneva, Switzerland); *AAEA Annual Meeting* (updated version, 07/2024, New Orleans, LA).
48. Hand, T.^{*}, Trujillo-Barrera, A., Tejeda, H., and **Etienne, X.L.** Adopting Carbon Reduction Projects: Case for the Idaho Dairy Industry. *WAEA/CAEA Annual Meeting* (07/2023); *AERS Advisory Board Meeting* (10/2023).
47. **Etienne, X.L.**, Durongkadej, I., and Scarciuffolo, A.[#]. Categorical Economic Policy Uncertainty and Tail Risk in Energy Markets: A Connectedness Analysis. *Southern Economic Association Annual Meeting* (11/2022); *60th Annual Academy of Economics and Finance Meeting* (02/2023); *AAEA Annual Meeting* (poster, 07/2023); *WSU Research Seminar* (03/2026).
46. Thomas, P.^{*}, and **Etienne, X.L.** State-level Policies and Renewable Energy Generation in the United States. *Southern Economic Association Annual Meeting* (11/2022); *AAEA Annual Meeting* (07/2023).
45. Kariburyo, M.^{*}, **Etienne, X.L.**, and Shakya, S.[#]. Chinese Foreign Direct Investment in Africa: A Spatial Analysis. *Southern Economic Association Annual Meeting* (11/2022).
44. **Etienne, X.L.** Shale Gas Boom and Rural Development in the United States. *International Symposium on Rural Development and Agricultural Modernization* (invited seminar, 11/2022, virtual; hosted by Northwest A&F University).

43. Adhikari, S.^{*}, **Etienne, X.L.**, Trujillo-Barrera, A., McConnell, M., and Adam, B. Estimating the Impact of Rising International Production and Trade on Corn Price Dynamics. *AAEA Annual Meeting* (08/2022); *WAEA/CAEA Annual Meeting* (07/2023).
42. Dhakal, A.^{*}, **Etienne, X.L.**, and Trujillo-Barrera, A. Impact of Drought on Wheat Prices in the Northern United States. *AAEA Annual Meeting* (08/2022); *WAEA/CAEA Annual Meeting* (scheduled, 07/2023).
41. Wang, L.^{*}, **Etienne, X.L.**, and Li, J.[#]. Beyond Mean-Variance: A Quantile Approach to Model Food-Fuel Price Linkage. *AAEA Annual Meeting* (poster, 08/2022); *Commodity and Energy Markets Association Annual Meeting* (06/2023).
40. **Etienne, X.L.**, Li, B., and Liu, R. Detangling Risk Premiums: Common and Idiosyncratic Components of Commodity Futures. *Commodity and Energy Markets Association Annual Meeting* (06/2022); *59th Annual Meeting of the Eastern Finance Association* (03/2023); *Shanghai Business School International Conference of Finance* (06/2023, virtual).
39. Xu, Y., Elbakidze, L., and **Etienne, X.L.** Unconventional Oil and Gas Production and Agricultural Land Use in the United States. *Allied Social Science Associations (ASSA) Annual Meeting* (01/2022).
38. Huang, K.^{*}, Sant’Anna, A.C., and **Etienne, X.L.** How Did COVID-19 Impact U.S. Household Food Spending? An Analysis Six Months In. *AAEA Annual Meeting* (08/2021).
37. Li, J.^{*}, Irwin, S.H., and **Etienne, X.L.** Do Extreme CIT Position Levels Have Market Impacts in Grain Futures Markets? *NCCC-134* (04/2021).
36. Trujillo-Barrera, A., **Etienne, X.L.**, and Pennings, J. Liquidity Patterns Between Agricultural Futures and Options Markets. *NCCC-134* (04/2021).
35. Shakya, S., Li, B., and **Etienne, X.L.** Shale Revolution, Rig Activities, and Oil and Gas Prices in the United States. *University of Arkansas* (03/2021); *University of Idaho* (03/2021); *Huazhong Agricultural University* (invited seminar, 07/2021).
34. Scarciuffolo, 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); *Commodity and Energy Markets Association Annual Meeting* (06/2021).
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); *AAEA Annual Meeting* (poster, 08/2021).
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 the 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); *NAREA Annual Meeting* (06/2020); *AAEA Annual Meeting* (poster, 08/2020).
29. Scarciuffolo, A.^{*}, and **Etienne, X.L.** Testing Directional Predictability Between Energy Commodities. *AAEA Annual Meeting* (07/2019); *SEA Annual Meeting* (11/2021).
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); *University of Idaho CALS Statistics Program Seminar* (02/2023); *World Bank Seminar* (03/2023).

27. Baffes, J., and **Etienne, X.L.** Has Yield Growth Stagnated for Major Crops? *AAEA Annual Meeting* (07/2019); *25th Session of the Global Food Market Information Group (AMIS), FAO* (11/2024, Geneva, Switzerland); *World Bank Agriculture Policies Community of Practice (APCoP) BBL* (01/2025, Washington, DC); *IFPRI MTI Brown Bag Seminar* (03/2025, Washington, DC).
26. Huang, K. *, and **Etienne, X.L.** Do Natural Hazards in the Gulf Coast Still Matter for 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. Scarciuffolo, 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 a 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 U.S.: 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 Regional U.S. Natural Gas Markets. *NCCC-134* (04/2017); *AAEA Annual Meeting* (poster, 08/2017).
16. Cumming, K. *, Mattos, F., and **Etienne, X.L.** Evaluating Crop Forecast Accuracy for Corn and Soybeans in the U.S., 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 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 U.S. Distillers Grains Market. *AAEA Annual Meeting* (07/2015).
8. Wiggins, S. *, and **Etienne, X.L.** U.S. Natural Gas Determination: Fundamentals and the Development of Shale. *AAEA Annual Meeting* (07/2015).

7. Trujillo-Barrera, 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-Universität Münster, 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 São 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 Winter-Nelson, A.E. 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).

Outreach Presentations

22. **Etienne, X.L.** Risk Management Strategies for the 2026–2027 Wheat Crop. *2026 Direct Seed Workshop* (03/03/2026, Idaho Falls, ID).
21. **Etienne, X.L.** Marketing Crops in a Challenging Time. *2026 East Idaho Cereals Conference* (02/04/2026, Idaho Falls, ID).
20. **Etienne, X.L.** Marketing 101: Tools for Managing Price Risk. *2026 East Idaho Cereals Conference* (02/04/2026, Idaho Falls, ID).
19. **Etienne, X.L.** Input Cost Trends. *2026 Idaho Ag Outlook* (12/17/2025, Boise, ID).
18. **Etienne, X.L.** Wheat Marketing Strategies. *WSU Wheat Academy* (12/09/2025 and 12/10/2025, Pullman, WA; two 90-minute sessions).
17. **Etienne, X.L.** Borah Symposium: Great Power Competition and Agricultural Commodities. *Borah Symposium* (09/29/2025, Moscow, ID).
16. **Etienne, X.L.**, Tejeda, H., and Hatzenbuehler, P. Workshop on Grain Risk Management. *Workshop for Producers in Southern Idaho* (02/28/2025, Twin Falls, ID; 4-hour lecture).
15. **Etienne, X.L.**, and Hatzenbuehler, P. Workshop on Grain Risk Management. *Workshop for Producers in Eastern Idaho* (02/27/2025, Pocatello, ID; 4-hour lecture).
14. Hatzenbuehler, P., Field, C., and **Etienne, X.L.** Input Cost Trends. *East Idaho Cereals Conference* (02/05/2025, Fort Hall, ID).
13. **Etienne, X.L.** Input Cost Trends. *2025 Idaho Ag Outlook* (12/18/2024, Boise, ID).
12. **Etienne, X.L.** Workshop on Grain Risk Management. *Workshop for Producers in North Idaho* (10/17/2024, Lewiston, ID; 4-hour lecture).
11. **Etienne, X.L.** Workshop on Grain Risk Management. *Workshop for Producers in Eastern Idaho* (06/04/2024, Ririe, ID; 4-hour lecture).

10. **Etienne, X.L.** Input Cost Trends. *2024 Idaho Ag Outlook* (12/14/2023, Nampa, ID).
9. **Etienne, X.L.** Input Cost Trends. *2024 Idaho Ag Outlook* (12/13/2023, Twin Falls, ID).
8. **Etienne, X.L.** Input Cost Trends. *2024 Idaho Ag Outlook* (12/12/2023, Idaho Falls, ID).
7. **Etienne, X.L.** Managing Price Risk in Volatile Times. *Podcast with Idaho Wheat Commission* (06/07/2023, virtual).
6. **Etienne, X.L.** From Farm to Fork: What Happened to Food Prices? *Department of Physics Award Banquet, University of Idaho* (04/06/2023, Idaho Falls, ID).
5. **Etienne, X.L.** Marketing 2023/2024 Wheat. *2023 Direct Seed Workshop* (03/06/2023, Idaho Falls, ID).
4. **Etienne, X.L.** Input Cost Trends. *2022 Idaho Ag Outlook* (12/14/2022, virtual).
3. **Etienne, X.L.** and Hatzenbuehler, P. Input Cost Trends: An Update. *Ag Talk Tuesday, University of Idaho Extension* (08/16/2022, virtual).
2. Westerhold, A. and **Etienne, X.L.** Input Cost Trends. *University of Idaho Cereal School* (02/04/2022).
1. **Etienne, X.L.** Input Cost Trends. *2021 Idaho Ag Outlook* (12/14/2021, virtual).

Teaching

University of Idaho

- **AGEC 3890/4890: Understanding and Using Futures and Options Markets** (3 credit hours). Offered as two independent sections each semester, one in person and one online (for 2+2 students). Semesters taught: Spring 2022, Spring 2023, Spring 2024, Spring 2025, Spring 2026.
- **AGED 4070 Global Agricultural & Life Sciences Systems.** Co-led session focused on Taiwan. Semesters taught: Spring 2026.
- **AGEC 404: Special Topics—Grain Marketing Tour in the Pacific Northwest.** Semesters taught: Fall 2024.

West Virginia University

- **ARE 440: Futures Markets and Commodity Prices** (3 credit hours). Semesters taught: Spring 2015, Spring 2016, Spring 2018, Spring 2019, Spring 2020, Spring 2021.
- **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: Seminar 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.

Other Teaching and Instruction

- **Crop Markets in the Pacific Northwest.** AgBiz Summer Fellows Program, University of Idaho, Summer 2025.
- **Developing Marketing Strategies.** Troy School District, Troy, ID, April 21, 2025 (for high school FFA students).
- **Applied Econometrics.** Huazhong Agricultural University, China. Summer 2022, Summer 2023, Summer 2024. Online and in-person delivery.
- **Futures Markets and Commodity Prices.** Huazhong Agricultural University, China. Summer 2021. Online delivery.
- Invited lectures in undergraduate and graduate courses at West Virginia University and the University of Idaho.

Student Advising

Graduate Committees Chaired or Co-Chaired: Current Students

- **Aavash Shrestha**, M.S. in Applied Economics, Department of Agricultural Economics and Rural Sociology, University of Idaho. *Consumer Valuation of Low-Carbon Dairy Products*. Expected graduation: August 2027.

Graduate Committees Chaired or Co-Chaired: Former Students

- **Zhao Ming**, M.S. in Applied Economics, Department of Agricultural Economics and Rural Sociology, University of Idaho. *Net-Zero Goals and Strategies for Dairy Processors*. Graduated August 2026. Initial placement: Ph.D. student, Texas Tech University, Lubbock, TX.
- **Sushuan K. C.**, M.S. in Applied Economics, Department of Agricultural Economics and Rural Sociology, University of Idaho. *Vertical Price Transmission in the Food Supply Chain: New Evidence Based on Meta-Analysis*. Co-advised with Dr. Andres Trujillo-Barrera. Graduated August 2025. Initial placement: Ph.D. student, Texas A&M University, College Station, TX.
- **Saurabh Bastakoti**, M.S. in Applied Economics, Department of Agricultural Economics and Rural Sociology, University of Idaho. *How Far Do Beef Products Travel in the United States?* Co-advised with Dr. Hernan Tejeda. Graduated August 2025. Initial placement: Ph.D. student, Washington State University, Pullman, WA.
- **Michael Nading, Jr.**, M.S. in Applied Economics, Department of Agricultural Economics and Rural Sociology, University of Idaho. *Idaho Wheat Producers' Marketing Strategies: Evidence Based on Focus Groups and a Statewide Survey*. Co-advised with Dr. Andres Trujillo-Barrera. Graduated May 2025. Initial placement: Research Analyst, Decision Innovation Solutions, Des Moines, IA.
- **Pinky Thomas**, Ph.D. in Natural Resource Economics, West Virginia University. *Three Essays on Energy Economics*. Co-advised with Dr. Alan Collins. Graduated December 2024. Initial placement: Energy Market Analyst, Austin Energy, Austin, TX.
- **Saroj Adhikari**, M.S. in Applied Economics, Department of Agricultural Economics and Rural Sociology, University of Idaho. *Estimating the Effects of Rising International Corn Production and Trade on the U.S. and Global Corn Markets*. Co-advised with Dr. Andres Trujillo-Barrera. Initial placement: Ph.D. student, School of Economics, Washington State University, Pullman, WA.
- **Aayush Dhakal**, M.S. in Applied Economics, Department of Agricultural Economics and Rural Sociology, University of Idaho. *Impact of Weather Disturbances on Spring and Winter Wheat Price Spreads*. Co-advised with Dr. Andres Trujillo-Barrera. Initial placement: Ph.D. student, Department of Agricultural and Consumer Economics, University of Illinois at Urbana-Champaign, Urbana, IL.
- **Sara Farhangdoost**, Ph.D. in Natural Resource Economics, West Virginia University. *Three Essays on Commodity Price Forecasting and Volatility*. Graduated December 2021. Initial placement: Data Scientist, State Farm Insurance (remote).
- **Richard Vest**, M.S. in Energy Environments, West Virginia University. *Non-Monetary Economies: A Study of Alternative Governing Principles*. Graduated August 2021.
- **Kuan-Ming Huang**, Ph.D. in Natural Resource Economics, West Virginia University. *Three Essays on Applied Econometrics in Energy and Agriculture*. Graduated May 2021. Initial placement: Postdoctoral Researcher, University of Florida, Gulf Coast Research and Education Center, Wimauma, FL.
- **Alexandre Scarcioffolo**, Ph.D. in Natural Resource Economics, West Virginia University. *Three Essays on Energy Economics*. Graduated May 2020. Initial placement: Assistant Professor, Department of Economics, Georgia College & State University, Milledgeville, GA.
- **Zarina Ismailova**, M.S. in Agricultural and Resource Economics, West Virginia University. *Quantifying Announcement Effects in the U.S. Lumber Market*. Graduated May 2019. Initial placement: Financial Analyst, Chatel Real Estate, Washington, DC.

- **David Aratuo**, Ph.D. in Natural Resource Economics, West Virginia University. *Three Essays on Tourism Demand and Economic Development in the United States*. Co-advised with Dr. Peter Schaeffer. Graduated December 2018. Initial placement: Research Fellow, School of Conflict Analysis and Resolution, George Mason University, Fairfax, VA.
- **Mostafa Hashemi**, M.S. in Agricultural and Resource Economics, West Virginia University. *The Linkage Between the U.S. Dollar Exchange Rate and Oil Prices*. Graduated December 2017. Initial placement: Graduate Student, Educational Psychology, West Virginia University, Morgantown, WV.
- **Seth Wiggins**, Ph.D. in Natural Resource Economics, West Virginia University. *Three Essays on Energy Economics*. Graduated August 2016. Initial placement: Visiting Assistant Professor, Department of Economics, Colorado School of Mines, Golden, CO.

Graduate Students Advised as Committee Member

- University of Idaho: Tyler Hand, M.S. (05/2024)
- WVU Division of Resource Economics and Management: Syedul Islam, Ph.D. (12/2023); Ritika Khurana, Ph.D. (05/2022); Shabani Kariburyo, Ph.D. (12/2021); Bolarinwa Ajanaku, Ph.D. (05/2021); Zachary Keeler, Ph.D. (05/2021); 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); Adebiyi Adeboje, M.S. (05/2017); Christopher Schultz, Ph.D. (12/2015).
- Other Departments/Universities: Xufeng Zhang, Ph.D. (WVU, Forestry and Natural Resources, 08/2022); Jiarui Li, Ph.D. (University of Illinois, Agricultural and Applied Economics, 05/2022); Wentao Jiang, Ph.D. (WVU, Animal and Nutritional Sciences, 05/2021); 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

- Postdoctoral Researcher Advisor, University of Idaho: Jung-Keon Jo (2026-present).
- Postdoctoral Researcher Advisor, University of Idaho: Qi Zhang (2024-present).
- Undergraduate Research Advisor, University of Idaho: Hadley Beechinor (2024-2025); Mika Brouwer (2024-2025). Posters presented at the 2025 University of Idaho Undergraduate Research Symposium.
- Undergraduate Research Advisor, WVU Division of Resource Economics and Management: Stephen Sullivan (2014-2015), Second Place, M.S. Research Category, 2015 WVU Davis College Graduate Student Research and Creative Scholarship Conference; featured on *WVU Mountaineer News*.
- 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 Scarcioppolo (2017-2018); Douglas Mugabe (2016-2017)

Service Activities

- Service to the Profession

AAEA–Agricultural and Applied Economics Association; **NAREA**–Northeastern Agricultural and Resource Economics Association; **WAEA**–Western Agricultural and Resource Economics Association; **CEMA**–Commodity and Energy Markets Association.

2024–Present	Editorial Council Member, <i>Journal of Agricultural and Applied Economics</i>
2022–Present	Member, National Wheat Improvement Committee
2021–Present	Associate Editor, <i>Australian Journal of Agricultural and Resource Economics</i>
2022–2025	Nomination Committee Member, AAEA
2022–2023	Chair, Graduate Student Engagement Committee, NAREA
2020–2023	Executive Board Member, NAREA
2020–2022	Editorial Council Member, <i>Journal of Agricultural and Applied Economics</i>
2022	Session Moderator and Discussant, CEMA Annual Meeting
2019–2021	Selected Paper and Symposium Committee Member, NAREA
2017–2020	Master’s Thesis Award Committee Member, NAREA
2017–2019	Topic Leader, AAEA
2017–2018	Co-Guest Editor, <i>Agricultural Finance Review</i> (Special Issue: “Agricultural Credit and the Changing Landscape of American Agriculture”)
2015–2018	Secretary/Treasurer, Agricultural Finance and Management Section, AAEA
2015–2018	Membership Committee Member, AAEA
2013, 2017	Session Moderator, AAEA Annual Meetings
2015	Judge, Undergraduate Paper Competition Committee, AAEA

• Service to the University of Idaho

CALS—College of Agricultural and Life Sciences; **AERS**—Department of Agricultural Economics and Rural Sociology; **ACRM**—Agricultural Commodity Risk Management Program

2023–Present	Committee Member, Academic Programs Advisory and Curriculum Committee (APACC), CALS
2023–Present	Subeditor, University of Idaho Extension Publishing
2022–Present	Faculty Advisor to undergraduate student team managing social media presence for Barker ACRM Program (Twitter, LinkedIn, Facebook, and Instagram)
2026	Search Committee Member, Associate Dean for Academic Programs, CALS
2023–2025	Awards Committee Member, CALS
2024–2025	Search Committee Member, Dean, CALS
2024	Chair, Third-Year Review Committee, AERS
2022–2024	Search Committee Chair, Area Extension Educator—Risk Management, AERS
2023	Search Committee Member, Instructor of Finance, Barker Risk Management and Trading Program, College of Business and Economics
2022	Search Committee Member, Instructor of Finance, Barker Risk Management and Trading Program, College of Business and Economics
2021–2024	Subcommittee Member, IDEA (Inclusion, Diversity, Equity, and Access) Committee on Improving On- and Off-Campus Relations, CALS

• Service to West Virginia University

Davis College—Davis College of Agriculture and Natural Resources; **REM**—Division of Resource Economics and Management

2021	Advisory Board Member, West Virginia Agricultural and Forestry Experiment Station and Research Office
2021	Search Committee Member, Associate Dean for Academic Affairs, Davis College
2018–2021	Member (2018–2020) and Chair (2020–2021), Graduate Student Research and Creative Scholarship Committee, Davis College
2015–2018	Judge, Graduate Student Research and Creative Scholarship Conference, Davis College
2017	Search Committee Member, Associate Dean for Research, Davis College
2015–2017	Special Events Committee Member, Davis College
2015–2016	Davis–Michael Distinguished Lecture Committee Member, Davis College
2016–2021	Mentored Research Paper Reviewer, REM
2014–2021	Graduate Student Committee Member, REM
2014–2021	Ph.D. Qualifying Examination Committee Member, REM
2018–2019	Faculty Search Committee Member, REM

Referee Service

Journal Referee: *Agribusiness; Agricultural and Resource Economics Review; Agricultural Economics; Agricultural Finance Review; American Journal of Agricultural Economics; Applied Economics; Applied Economics Letters; Applied Economic Perspectives and Policy; Applied Economics Teaching Resources; Australian Journal of Agricultural and Resource Economics; Canadian Journal of Agricultural Economics; China Agricultural Economics Review; Choices; Emerging Markets Finance and Trade; Empirical Economics; Energies; Energy Economics; The Energy Journal; Environment and Development Economics; European Review of Agricultural Economics; Finance Research Letters; Food Policy; Global Economic Review; Humanities and Social Sciences Communications; International Journal of Climate Change Strategies and Management; International Journal of Contemporary Hospitality Management; International Review of Economics and Finance; Journal of Agricultural and Applied Economics; Journal of the Agricultural and Applied Economics Association; Journal of Agricultural and Resource Economics; Journal of Commodity Markets; Journal of Financial Research; Journal of Futures Markets; Latin American Economic Review; Nature Sustainability; Papers in Regional Science; Pest Management Science; PLOS ONE; Quantitative Finance; Quarterly Review of Economics and Finance; Review of Industrial Organization; Utilities Policy; The World Economy.*

Other Review Service: Reviewer of USDA Economic Research Service (ERS) reports; abstract reviewer for AAEA, WAEA, and NAREA annual meetings; external reviewer for Hatch proposals at West Virginia University and the University of Idaho; reviewer for the Michigan State University Extension course *Grain Gains: An Introduction to Grain Marketing* (2025); promotion and tenure external reviewer for Southern Illinois University (2025) and Kansas State University (2020); grant proposal reviewer for USDA NIFA programs (two in 2026; two in 2025; one each in 2018, 2019, and 2020); position classification external reviewer for USDA ERS (2022).

Selected Media Coverage

26. “New UI tool helps farmers choose AR or PLC.” *Capital Press* (05/28/2026).
25. “Iran war drives up fertilizer, diesel costs for Idaho farmers.” *KMVT* (04/10/2026).
24. “Idaho economist helps wheat farmers cut costs, manage risk.” *Capital Press* (11/24/2025).
23. “Mostly high farm input costs, ‘double squeeze’ to persist.” *Capital Press* (10/09/2025).
22. “Tariffs weaken U.S. agriculture, panelists say.” *UI Argonaut* (10/01/2025).
21. “AgBiz summer fellows explore grain supply chain from farm to export.” *University of Idaho News* (08/01/2025).
20. “Global food yields have grown steadily during last six decades, study finds.” *Farms.com* (11/28/2024); *Anthropocene* (12/2024); *Market Business News* (12/01/2024); *ScienceDaily* (11/27/2024); *Phys.org* (11/2024). *Seed Daily* (11/28/2024).
19. “Farmers look back on 2024, and ahead to next year.” *Capital Press* (12/05/2024).
18. “New summer internship.” *Catching Up with CALS* (10/30/2024, archived).
17. “Hands-on new minor.” *Catching Up with CALS* (08/07/2024, archived).
16. “Dairy carbon markets.” *Catching Up with CALS* (07/10/2024); *The Cattle Site* (07/12/2024, archived); *Idaho Dairy Focus* (2024, Q2); *Dairy Global* (08/23/2024).
15. “U of I report finds Idaho ag enjoyed record 2023 sales of four top commodities.” *Ag Proud Idaho* (12/22/2023); *Idaho Business Review* (12/21/2023).
14. “Idaho farm margins will tighten in 2024, analyst warns.” *Capital Press* (12/18/2023).
13. “How wheat growers can gain control over the market.” *Ag Update* (08/26/2023).
12. “UI study looks at developing grain marketing tools, strategies.” *Capital Press* (05/31/2023); *Catching Up with CALS* (06/28/2023, archived).

11. “Idaho researcher helps develop promising alternative commodity price predictive model.” *University of Idaho News* (04/05/2023, archived); *Idaho Farm Bureau Quarterly* (05/2023).
10. “Next year’s outlook for input costs mixed, expert says.” *Capital Press* (12/15/2022).
9. “Rising input costs hit farmers hard.” *Post Register* (02/01/2022).
8. “Endowed Chair of Grain Marketing and Risk Management filled by Dr. Xiaoli Etienne.” *Idaho Grain* (Winter 2021).
7. “Some input costs could ease next year, economist says.” *Capital Press* (12/15/2021).
6. “Our Stories — Risk Tools Limit Losses.” *Catching Up with CALS* (09/08/2021, archived).
5. “Food Safety in West Virginia.” *WVU Today* (09/12/2019); *WVNews* (09/29/2019).
4. “RRI Faculty Research Associate Spotlight: Dr. Xiaoli Etienne.” *WVU Regional Research Institute* (09/13/2017, archived).
3. “AAEA Member Spotlight: Xiaoli L. Etienne.” *AAEA Blog* (12/17/2015).
2. “Price Explosiveness, Speculation, and Grain Futures Prices.” *Phys.org* (06/23/2015).
1. “Bubbles in Food Commodity Markets: Four Decades of Evidence.” *Financial Times* (03/25/2013, archived); *Reuters* (03/26/2013, archived).

References

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