

JAIME R. LUKE

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EMPLOYMENT

2025 – Present Assistant Professor, Dept. of Agricultural, Food, & Resource Economics
Michigan State University, East Lansing, MI

EDUCATION

2024 Ph.D. – Agricultural Economics
Kansas State University, Manhattan, KS

2021 M.S. – Agricultural & Applied Economics
University of Missouri, Columbia, MO

2018 B.S. – Agricultural Economics
University of Missouri, Columbia, MO

PEER-REVIEWED JOURNAL ARTICLES

Luke, J.R. and G.T. Tonsor. “The Enteric Methane Emission Conundrum: U.S. Beef Cattle Producer Adoption of Climate-Focused Technology.” 2024. *Sustainable Production and Consumption*, 50, 364-375. Available at <https://doi.org/10.1016/j.spc.2024.08.011>.

Luke, J.R., G.T. Tonsor, and D.S. Brown. “Wholesale Pork Demand: Understanding Primal-Level Heterogeneity.” 2024. *Journal of Commodity Markets*. 34. Available at <https://doi.org/10.1016/j.jcomm.2024.100402>.

Luke, J.R. and G.T. Tonsor. “USDA Long-Term Meat Trade Projections: A Comprehensive Evaluation.” 2023. *Journal of Agricultural and Applied Economics*, 55(1), 151-170. Available at <https://doi.org/10.1017/aae.2023.13>.

PAPERS IN REVIEW

Luke, J.R., T.C. Schroeder, G.T. Tonsor, L.A. Collins, and D.J. Ufer. “What’s the Price of Meat? Sources of Variation in Retail Meat Price Data and Impacts on Market Performance Analysis.” Status: Under review.

Luke, J.R. and G.T. Tonsor. “A Review of Producer Adoption in the U.S. Beef Industry with Application to Enteric Methane Emission Mitigation Strategies.” Status: Revise & resubmit.

Luke, J.R. and G.T. Tonsor. “U.S. Consumer Appetite for Climate Claims on Beef Products.” Status: Under review.

Luke, J.R. and G.T. Tonsor. “U.S. Public Sentiment Toward Policy Action Targeting Emissions from U.S. Beef Production.” Status: Under review.

Luke, J.R., G.T. Tonsor, and T.C. Schroeder. “U.S. Meat Demand Elasticity Estimates: Insights on Using Publicly Available Data versus Scanner Data.” Status: Under review.

GRANT ACTIVITY

“Economic Examination of Livestock Enteric Emissions.” \$75,000. USDA Office of the Chief Economist (OCE). October 1, 2022 – September 30, 2024. Objective: To provide a greater economic understanding of the topic of livestock enteric emissions and feed-additive mitigation practices. Investigators: G.T. Tonsor (PI), **J.R. Luke** (Co-PI).

ACADEMIC PRESENTATIONS

Luke, J.R., and G.T. Tonsor. “U.S. Consumer Appetite for Climate Claims on Beef Products: Exploring Country-of-Origin Impacts.” Poster presented at Agricultural & Applied Economics Association (AAEA) Annual Meeting. 2024. New Orleans, LA.

Luke, J.R. “Reducing U.S. Livestock Enteric Methane Emissions: Economic Insights and Remaining Challenges.” Presented virtually at Agricultural & Applied Economics Association (AAEA) Organized Symposium on Climate-Smart Markets and Practices on U.S. Livestock Farms. 2023.

Luke, J.R., G.T. Tonsor, and T.C. Schroeder. “Impact of Data Selection on U.S. Retail Meat Demand Elasticity Estimates.” Presented at Western Agricultural Economics Association (WAEA) Annual Meeting. 2023. Whistler, BC, Canada.

Luke, J.R., T.C. Schroeder, G.T. Tonsor, L.A. Collins, and D.J. Ufer. “U.S. Retail Meat Prices: Implications of Using Scanner Data in Analyses.” Presented at Southern Agricultural Economics Association (SAEA) Annual Meeting. 2023. Oklahoma City, OK.

Luke, J.R., G.T. Tonsor, and D.S. Brown. “Wholesale Demand for Pork Primal Cuts: Updating Past Estimates to Better Describe Product-Level Demand Heterogeneity.” Presented at Southern Agricultural Economics Association (SAEA) Annual Meeting. 2022. New Orleans, LA.

EXTENSION PUBLICATIONS

Luke, J.R., and G.T. Tonsor. “Assessing Possible U.S. Feedlot Adoption of Methane Reducing Feed Additive 3-Nitrooxypropanol (3-NOP): Overview of a Recent Research Project.” 2024. Available at <https://agmanager.info/livestock-meat/production-economics/assessing-possible-us-feedlot-adoption-methane-reducing-feed>.

Luke, J.R., and G.T. Tonsor. “Contribution of the Beef Industry to the Economy of the Great Plains and Western U.S.: Past, Present, and Future.” 2023. *Journal of Animal Science*, 101(S3), 325-326. Available at <https://doi.org/10.1093/jas/skad281.389>.

Luke, J.R., A.E. Anderson, and G.T. Tonsor. “An Updated Evaluation of the U.S. Cattle Cycle.” Kansas State University AgManager.Info. 2022. Available at <https://www.agmanager.info/livestock-meat/production-economics/updated-evaluation-us-cattle-cycle>.

Luke, J.R. and G.T. Tonsor. “Concentration of U.S. Pork Exports.” Kansas State University AgManager.Info. 2021. Available at <https://www.agmanager.info/livestock-meat/marketing-extension-bulletins/trade-and-demand/concentration-us-pork-exports>.

EXTENSION PRESENTATIONS

Luke, J.R. and G.T. Tonsor. “U.S. Feedlot Adoption of Enteric Methane Emission Mitigating Technology.” Presented at Kansas State University Risk & Profit Conference. 2024. Manhattan, KS.

Luke, J.R. and G.T. Tonsor. “Contribution of the Beef Industry to the Economy of the Great Plains and Western United States: Past, Present, and Future.” Presented at American Society of Animal Science (ASAS) Western Meeting Symposium on Climate Adaptation Strategies for the Beef Industry. 2023. Albuquerque, NM.

Luke, J.R. and G.T. Tonsor. “Beef and Pork Marketing Margins and Their Implications.” Presented at Kansas State University Risk & Profit Conference. 2022. Manhattan, KS.

Luke, J.R. and G.T. Tonsor. “Beef Origin Labeling Policy.” Presented at AAEA Annual Meeting Policy Communication Competition. 2022. Anaheim, CA.

Luke, J.R. and D.S. Brown. “The Demand for Pork Primal Cuts.” Presented virtually to National Pork Board and National Pork Producers Council. 2021.

MEDIA INTERVIEWS

Luke, J.R. “AgManager Radio #2” AgManager Radio with Dr. Amanor-Boadu. 2024. Available at <https://agmanager.info/news/recent-videos/agmanager-radio-2-jaimie-luke>.

Luke, J.R. and G.T. Tonsor. “Adoption of Methane Reducing Feed Additive in U.S. Feedlots”. Kansas State Radio Network, Agriculture Today. 2024. Available at <https://agtodayksu.libsyn.com/1751-update-records-with-fsamethane-reduction-in-us-feedlots>.

Luke, J.R. “Understanding More about the Farmers’ Share of the Food Dollar.” Brownfield Ag News. 2022. Available at <https://brownfieldagnews.com/healthy-living/understanding-more-about-the-farmers-share-of-the-food-dollar/>.

Luke, J.R. and G.T. Tonsor. “Pork Export Concentration.” Kansas State Radio Network, Agriculture Today. 2021. Available at <https://agtodayksu.libsyn.com/973cattle-market-commentarypork-export-destinations>.

AWARDS & HONORS

2024	AAEA Food & Ag Marketing Policy Section Poster Competition Winner
2023	National Cattlemen’s Foundation W.D. Farr Scholarship
2021	2 nd Place AAEA Case Study Competition
2021	KSU Timothy R. Donoghue Graduate Scholarship
2021	Mizzou 18 Graduate Student Award
2019	World Food Prize Scholar
2019	National Pork Board Agri-Marketing Fellowship
2018	College of Agriculture, Food, and Natural Resources Outstanding Graduate
2018	USDA Outlook Forum Diversity Scholar
2017	Women in Agribusiness Summit Scholar
2015	American FFA Degree

PAST EMPLOYMENT

2021 – 2024	Kansas State University Dept. of Agricultural Economics Graduate Research Assistant	Manhattan, KS
2022	USDA Office of the Chief Economist Economics Intern	Washington, D.C. & remote
2019 – 2021	University of Missouri Div. of Applied Social Sciences Graduate Research & Teaching Assistant	Columbia, MO
2018 – 2019	Archer Daniels Midland Company Commodity Merchandiser	Livingston Point, KY
2017 – 2018	Missouri Pork Association Fundraising & Policy Intern	Columbia, MO
2017	American Farm Bureau Federation Public Policy Economic Analysis Intern	Washington, D.C.
2016	Missouri Corn Growers Association Grower Services Intern	Jefferson City, MO

INVOLVEMENT

2022	Graduate Students in Agricultural Economics	Vice President
2022	Kansas State University Case Study Club	President
2020 – 2021	Mizzou Graduate Professional Council	Representative
2020 – 2021	DASS Inclusion, Diversity, and Equity	Committee Member
2020 – 2021	Preparing Tomorrow's Leaders for Science	Program Graduate
2017 – 2018	Agriculture Future of America	National Student Advisory Team Member
2014 – 2018	Sigma Alpha	Class President, Secretary, Philanthropy Chair
2017	Girls on the Run Youth Program	Head Coach

STUDY ABROAD

2018	Germany – Agricultural Systems Management (spring break)
2017 – 2018	Thailand – Conservation, Biodiversity (winter break)
2016	University of Alicante (Spain) – International Econ, Spanish (fall semester)

JOURNAL REFEREE

Food Policy
Journal of Food Distribution Research
Renewable Agriculture and Food Systems