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Yi Wang

EDUCATION

Purdue University

Expected May 2026

Ph.D. in Agricultural Economics

Committee: Juan Sesmero (co-chair), Meilin Ma (co-chair), Joseph Balagtas, Diego Cardoso, Charlotte Ambrozek

University of California, Davis

June 2020

M.S. in Agricultural and Resource Economics

China Three Gorges University

June 2019

M.M.S. in Business Administration

China Three Gorges University B.M.S. in Logistics Management

June 2016

Job Market Paper

Testing Vertical Relationships in the U.S. Infant Formula Market: Implications for Government Costs and Welfare

Abstract: The U.S. Special Supplemental Nutrition Program for Women, Infants, and Children (WIC) provides free infant formula to low-income households, serving around 39% of US infants and accounting for over half of all domestically sold formula—making it a substantial government expenditure. To reduce government costs, WIC awards exclusive contracts to manufacturers offering the lowest net price in each state and collects rebates from the winning bidders via public auction, effectively creating government-sanctioned monopolies in WIC markets. The broader implications of this policy hinge on vertical relationships between manufacturers and retailers, which remain poorly understood. I identify the vertical relationship as best characterized by two-part tariffs, where retailers pay fixed fees to manufacturers and wholesale markups are zero. This finding challenges the common but untested resale price maintenance assumption (RPM) in the literature. Counterfactual simulations show that TPT is more efficient than RPM, yielding higher consumer and total surplus while reducing government costs through lower total markups at equivalent net prices. Specifically, under RPM, average retail prices would be 3.8% higher, consumer surplus would be 7.4% lower, and producer surplus would be 2.2% higher. Disaggregated results reveal substantial heterogeneity across states and years: winners may raise or drop prices while losers consistently reduce prices though to varying degrees. Together, these findings demonstrate that conduct assumptions critically shape welfare outcomes.

PUBLICATIONS

- 1. Wang, Y. 2024. Do High Rebates Guarantee High-Cost Savings? Purdue Agricultural Economics Report, May 15, 2024. PAER-2024-19.
- Consoli, S., Fraysse, E.A., Slipchenko, N., Wang, Y., Amirebrahimi, J., Qin, Z., Yazma, N., and Lybbert, T.J., 2022. A "Sideways" Supply Response in California Winegrapes. Journal of Wine Economics 17(1), 42-63
- 3. Zhao, X., Wang, Y., and Daun, Y. 2018. Study on the effect of the employment structural adjustment on land transfer of reservoir resettlement based on immigrants in south-to-north water diversion project. Chinese Journal of Agricultural Resources and Regional Planning 39(10), 204-212. [In Chinese]

Policy and Extension Outputs

- USDA Report: Processor-Retailer Relationship in the US Beef Supply Chain: Preliminary Analysis Report, With Joseph V Balagtas, Meilin Ma, and Juan P. Sesmero.
- Regional Industry Cluster Drill-Down Series, With Indraneel Kumar and Roberto Gallardo.
- Indiana Creative Economy 2022 Report, With Indraneel Kumar and Roberto Gallardo.

Work in Progress

- Capacity Constraints and Strategic Bidding in Government Procurement: Evidence from WIC Infant Formula Rebate Auctions
- Supply Shock and Infant Formula Prices: Evidence from the US
- Markets for Private Label and National Brand Beef, With Joseph V. Balagtas, Meilin Ma, and Juan P. Sesmero.

Conferences and Invited Presentations

• AEA 2026 Annual Meeting

January 2026

• SEA 95th Annual Meeting

November 2025

• EAAE 2025 Congress

August 2025

AAEA 2025 Annual Meeting

July 2025

Teaching Experience

Instructor, Purdue University

Summer 2024 - Fall 2024

- AGEC 516 Mathematical Tools for Agricultural & Applied Economics
 - Average instructor rate: 4.7/5
- Ph.D. Math Camp

Teaching Assistant, Purdue University

Fall 2022 & Fall 2023

AGEC 516 Mathematical Tools For Agricultural & Applied Economics

Teaching Assistant, University of California, Davis

Spring 2020

• ARE 106 Econometric Theory & Applications

Reader/Grader, University of California, Davis

Winter 2020

• ARE 132 Cooperative Business Enterprises

Pedagogical Training

- AAEA Teaching Conversations (Teaching, Learning & Communication Section) September 2025 Present
- AAEA Teaching Academy Webinars

September 2025 – Present

• AAEA Second Annual Teaching Academy Workshop

July 2025

AAEA First Annual Teaching Academy Workshop

July 2024

• AAEA Teaching Academy Webinars

September 2024 – May 2025

Purdue University Online Workshops on Practical Applications of Generative AI in Teaching and Learning
 September 2024

Research Experience

• Research Assistant, Purdue University

for Professor Juan P. Sesmero

January 2025 - Present

for Professors Meilin Ma, Juan P. Sesmero, and Joseph V. Balagtas September 2023 - Present

for Professor Meilin Ma

May 2022 - September 2024

• Research Assistant, Purdue Center for Regional Development, Purdue University for Dr. Roberto Gallardo and Dr. Indraneel Kumar

August 2021 - May 2023

• Research Assistant, China Three Gorges University for Professor Jianhua Zhao

April 2015 – July 2018

Awards and Honors

- Farm Foundation Cultivator, Farm Foundation, 2026
- Best Poster Award, Food and Agricultural Marketing Policy Section, Graduate Student Poster Competition, 2025
- Travel Grant, Purdue Graduate Student Government (PGSG), 2025
- AAEA Teaching Academy Travel Grant, AAEA Trust, 2025
- Nominee, College of Agriculture Graduate Student Excellence in Teaching Award, Purdue University, 2025
- 1st Place, USDA AMS-GSS Local Food Economics Data Visualization Challenge (inperson), 2023
- National Graduate Scholarship, Ministry of Education, PRC, 2017 & 2018
- National Undergraduate Scholarship, Ministry of Education, PRC, 2015
- First-Level Scholarship for Graduate Students, China Three Gorges University, 2016
- Outstanding Undergraduate Thesis Award, China Three Gorges University, 2016
- Nominee, Top Ten Outstanding Youth Awards, College of Economics and Management, China Three Gorges University, 2016
- First-Level Scholarship for Undergraduate Students, China Three Gorges University, 2013 & 2014

SERVICE

- Reviewer, The Canadian Journal of Agricultural Economics/Revue canadienne d'agroeconomie (CJAE)
- Panelist, Graduate School Overview Session, SCARF Undergraduate Summer Research Program, Purdue University, June 2025
- Workshop Co-leader, Designing Scientific Research Posters, SCARF Undergraduate Summer Research Program, Purdue University, June 2025
- Reviewer, EAAE 2025 Congress, February 2025
- Vice President, Graduate Student Organization (GSO), Department of Agricultural Economics, Purdue University, June 2024 May 2025
- Academic Chair, Graduate Student Organization (GSO), Department of Agricultural Economics, Purdue University, June 2023 – May 2024

Skills

Programming: Python, R, STATA, ArcGIS, Tableau, GeoDa, OpenRefine, Julia **Languages:** Chinese (Native), English (Fluent), Spanish (Beginner)

References

Juan Sesmero

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Diego Cardoso

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Meilin Ma

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Charlotte Ambrozek

Department of Applied Economics University of Minnesota 217F Ruttan Hall St. Paul, MN 55108 ambrozek@umn.edu

Joseph Balagtas

Department of Agricultural Economics Purdue University 403 Mitch Daniels Boulevard W Lafayette, IN 47907 balagtas@purdue.edu