

Walter Ac-Pangan

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EDUCATION

Ph.D. Candidate in Agricultural Economics

2021 – Present

Kansas State University (Manhattan, KS)

Dissertation: Essays in Forecasting and International Trade

M.Sc. Agricultural Economics

2021

Kansas State University (Manhattan, KS)

B.Sc. in Agribusiness Management

2017

Zamorano University, Pan-American Agricultural School (Honduras)

WORKING PAPERS

- **Ac-Pangan, W.** Hendricks, NP. In-Season US Crop Acreage Forecasting Using Machine Learning. (In progress).
- Jo, Francis. Reyes, P. Hendricks, NP., **Ac-Pangan, W.** A Unified Algorithm For Penalized Likelihoods In Model Selection Of Spatial-Temporal Models For Lattice Data. (In progress).
- **Ac-Pangan, W.** Hendricks, NP. Effects of Non-Tariff Trade Barriers in Grain Markets: The Case of Rice Export Ban Imposed by India. (*First Draft Completed*).

RESEARCH SUBMITTED FOR PUBLICATION

- Sharma, P., Kim, J., **Ac-Pangan, W.**, Peterson, H., Shanoyan, A., Yu, J. Identifying Gaps in Food Manufacturing Business: Local Drivers and Impediments for Small Agri-Food Businesses. (*Submitted to Applied Economic Perspective and Policy*).
- **Ac-Pangan, W.** Hendricks, N., Zereyesus, Y. A., Kee, J. Forecasting Grain Supply of Low and Middle-Income Countries. (*Revised and Resubmitted to Agricultural Economics*).
- Zereyesus, Y. A., Kee, J., Morgan, S., Jelliffe, J., Nava, N., Cardell, L., **Ac-Pangan, W.** Does trade openness affect global grain supply response?. (*Revised and Resubmitted to Food Policy*).
- **Ac-Pangan, W.** Coffey, B.K. An Analysis of Live Cattle Basis Prediction Errors. (*Revised and Resubmitted to Journal of Agricultural and Applied Economics*).

PEER-REVIEWED PUBLICATIONS

- Rossi, L., Hallman, L. M., Adams, S. N. **Ac-Pangan, W.** (2020). Impact of a Soil Conditioner Integrated into Fertilization Scheme on Orange and Lemon Seedling Physiological Performances. *Plants*, 9(7), 812. Available at: <https://doi.org/10.3390/plants9070812>
- Adams, S. N., **Ac-Pangan, W.**, Rossi, L. (2019). Effects of Soil Salinity on Citrus Rootstock 'US- 942' Physiology and Anatomy, *HortScience horts*, 54(5), 787-792. Available at: <https://doi.org/10.21273/HORTSCI13868-19>

OTHER PUBLICATIONS

- Zereyesus, Y. A., Kee, J., Hendricks, NP., **Ac-Pangan, W.**, Cardell, L., Nava, N.J., Jellife, J., Morgan, S. (2023). Special Article: Projecting Long-Term Staple Grain Production for the International Food Security Assessment: A Time Series Cross-Validation Approach. USDA ERS. International Food Security Assessment, 2023-2033. Page 38-47. Available at: <https://www.ers.usda.gov/webdocs/outlooks/107271/gfa-34.pdf?v=916.1>
- **Ac-Pangan, W.** Plan de negocios para el establecimiento de una exportadora de cacao fino de aroma en Cobán, Alta Verapaz, Guatemala. Zamorano University Wilson Popenoe Library. Available at: <https://bdigital.zamorano.edu/bitstream/11036/6136/1/AGN-2017-001.pdf>

SELECTED PAPER AND CONFERENCE PRESENTATIONS

- **Ac-Pangan, W.**, Hendricks, NP. (2024). Effects of Non-Tariff Trade Barriers in Grain Markets: The Case of Rice Export Ban Imposed by India. Selected paper presented at the Australasian Agricultural and Resource Economics Society (AARES). Feb 14, 2025. Brisbane, Queensland, Australia.
- **Ac-Pangan, W.**, Sharma, P., Kim, J. (2024). Drivers of the Establishment of New Local Food Manufacturing Businesses in the Heartland Region. USDA-AMS Local Food Economics Data Visualization Challenge presented at Agricultural and Applied Economics Association Meeting (AAEA), July 28, 2024. New Orleans, Louisiana.
- **Ac-Pangan, W.**, Hendricks, N., Zereyesus, Y. A., Kee, J., Morgan, S., Jellife, J., Nava, N., Cardell, L. (2023). Global grain supply forecasting. Selected paper presented at Agricultural and Applied Economics Association Meeting (AAEA), July 24, 2023. Washington, DC. <https://ageconsearch.umn.edu/record/335783?ln=en>
- Zereyesus, Y. A., Kee, J., Morgan, S., Jellife, J., Nava, N., Cardell, L., Hendricks, N., **Ac-Pangan, W.** (2023). Does trade openness affect global grain supply response? Selected paper presented at Agricultural and Applied Economics Association Meeting (AAEA), July 24, 2023. Washington, DC. <https://ageconsearch.umn.edu/record/335666?ln=en>
- **Ac-Pangan, W.**, Hobbs, L., Sharma, P., Ofori-Bah, C., Sharma, M., (2024). Food Chain Partnership: When the Funding Stops: Sustaining private sector-non-profit collaborations. Case Study Solution presented at the International Food and Agribusiness Management Association (IFAMA), June 17, 2023. Christchurch, New Zealand.
- **Ac-Pangan, W.**, Hendricks, N. (2023). Improving existing methods of IFSA supply forecasting. Selected paper presented at the 2021 NCCC-134 Annual Conference, Applied Commodity Price Analysis, Forecasting and Market Risk Management. April 24, 2023. St. Louis, MO. Available at: https://legacy.farmdoc.illinois.edu/nccc134/conf_2023/pdf/Ac-Pangan_Hendricks_Zereyesus_Kee_NCCC-134_2023.pdf
- **Ac-Pangan, W.** Coffey, B. (2021) How do changes in market fundamentals affect the hedging in US live cattle markets? Selected paper presented at the 2021 NCCC-134 Annual Conference, Applied Commodity Price Analysis, Forecasting and Market Risk Management. April 19-20, 2021. (Online). <https://ageconsearch.umn.edu/record/316401>

POSTER PRESENTATIONS

- **Ac-Pangan, W.**, Hendricks, NP. (2025). In-Season US Crop Acreage Forecasting Using Machine Learning. Selected poster will be presented at Agricultural and Applied Economics Association Meeting (AAEA) July 29, 2025. Denver, Colorado.

- **Ac-Pangan, W.**, Hendricks, NP. (2025). Effects of Non-Tariff Trade Barriers in Grain Markets: The Case of Rice Export Ban Imposed by India. Selected poster will be presented at Agricultural and Applied Economics Association Meeting (AAEA) July 29, 2025. Denver, Colorado.
- **Ac-Pangan, W.**, Sharma, P., Kim, J. (2024). Identifying the Untapped Potential of the Small Local Food Manufacturing Business in the US. Poster presented at AI and the Future Symposium: Trust AI?. Oct 15, 2024. Manhattan, Kansas.
- **Ac-Pangan, W.**, Hendricks, NP. (2024) Using Machine Learning to Forecast Long-Term Grain Supply of Low and Middle-Income Countries. Poster presented at AI and the Future Symposium: Trust AI?. Oct 15, 2024. Manhattan, Kansas.
- Jo, Francis. Reyes, P. Hendricks, NP., **Ac-Pangan, W.** (2023) A Unified Algorithm For Penalized Likelihoods In Model Selection Of Spatial-Temporal Models For Lattice Data. Research and the State, Graduate Student Poster Session. Kansas State University. April 20, 2023. Manhattan, KS. Available at: <https://www.k-state.edu/grad/student-success/research-forums/docs/research-state/2023-RS-Abstract-Booklet.pdf>
- Hallman, L., Rossi, L., **Ac-Pangan, W.**, Adams, S. N. (2019). Optimal Nutrient Concentrations and Use of Root Growth Enhancers to Improve Citrus Root Health. Poster presented at American Society for Horticultural Science (ASHS 2019 Annual Conference), July 24, 2019. Las Vegas, Nevada. Available at: <https://ashs.confex.com/ashs/2019/webprogramarchives/Paper30104.html>
- Adams, S. N., **Ac-Pangan, W.**, Rossi, L. (2019). Effects of Soil Salinity on Citrus Rootstock 'US-942' Physiology and Anatomy, HortScience horts, 54(5), 787-792. Poster presented at American Society for Horticultural Science (ASHS 2019 Annual Conference), July 24, 2019. Las Vegas, Nevada. Available at: <https://ashs.confex.com/ashs/2019/webprogramarchives/Paper30091.html>

RESEARCH EXPERIENCE

Department of Agricultural Economics, Kansas State University

Graduate Research Assistant

2021 – Present

Supervised by Dr. Nathan Hendricks

Graduate Research Assistant

2019 – 2021

Supervised by Dr. Brian Coffey

Department of Horticultural Science, University of Florida

Research Scholar

2018

Supervised by Dr. Xavier Chaparro

Department of Applied Economics, University of Minnesota

Visiting Scholar

2017

Supervised by Dr. Michael Boland

EXTENSION ACTIVITY

Department of Agricultural Economics, Kansas State University

Assistant Extension Coordinator

Aug – Dec 2024

76th Annual Kansas Income Tax Institute

Logistic Support for Online and In-Person Sessions (Supervised by Dr. Rich Llewelyn)

GRANT ACTIVITY

Title: AI-Driven Tool to Improve Decision-Making for Dairy Farmers Interested in Adopting Automation

Status/Amount: Proposal Submitted (Under Review) / \$100,000

Source: USDA ARS AI Innovation Fund (FY25)

Investigators: Elizabeth French (PI), Luis Pena-Levano, **Walter Ac-Pangan**

TEACHING EXPERIENCE

Department of Agricultural Economics, Kansas State University

Instructor

Aug – Dec 2024

AGEC 115 – Decision Tools For Agricultural Economics and Agribusiness
(20 Undergraduate students). Freshman Level Course

Instructor

Aug – Dec 2021

AGEC 632 – Agribusiness Logistics
(22 Undergraduate students). Senior Level Course

Instructor

R Programming Language Camp for first-year M.S. and Ph.D. students.

(10 Graduate students)

Aug 2023

(14 Graduate students)

Aug 2024

Graduate Teaching Assistant

Aug – Dec 2019

AGEC 615 – Global Agricultural Development

(56 Undergraduate students). Senior level Course

AGEC 120 – Agricultural Economics and Agribusiness

(17 Undergraduate students). Freshman level Course

Department of Grain Science, Kansas State University

English - Spanish Translator and Interpreter

Jun – Aug 2021

Educational Program USSSEC – International Grain Program at Kansas State University Practical and Strategic Education for the Next Generation of Agribusiness Leaders Online Course Taught in Mexico and Colombia

INDUSTRY EXPERIENCE

Oro del Pacifico S.A. (Guatemala)

Jan - Apr 2018

Production Assistant Manager of Shrimp Farms

QualiTech Company, (Chaska, Minnesota)

Jan - May 2017

Lab Research Assistant in the AG Nutrition Department

LEADEARSHIP AND AWARDS

- KSU - Graduate Student Council Travel Award

- (Manhattan, Kansas. 2025)
- Social Chair at AAEA-Latin American Section
(New Orleans, Louisiana. 2024 - 2025)
 - AAEA / USDA AMS Local Food Economics Data Visualization Challenge Award (First Place)
(New Orleans, Louisiana. 2024)
 - IFAMA Case Study Competition Award (First place Graduate Level Category)
(Christchurch, New Zealand. 2023)
 - KSU - Graduate Student Council Travel Award
(Manhattan, Kansas. 2023)
 - Treasurer of the Graduate Student Agricultural Economics Association
(Kansas State University, Manhattan, KS. 2023)
 - First place in academic performance at Department of Agribusiness (*Summa Cum Laude*)
(Zamorano University, Honduras. 2017)
 - President of the Students Association at Department of Agribusiness
(Zamorano University, Honduras. 2016 - 2017)
 - Outstanding Academic Performance Award
(Zamorano University, Honduras. 2015 - 2017)

PROFESSIONAL MEMBERSHIPS

Agricultural & Applied Economics Association (AAEA)	2021 - Present
Applied Commodity Price Analysis, Forecasting and Market Risk Management (NCCC-134)	2021 - Present
Australasian Agricultural and Resource Economics Society (AARES)	2024 - Present
Graduate Student Agricultural Economics Association at KSU (GSAE)	2019 - Present
International Food and Agribusiness Management Association (IFAMA)	2022 - Present
North American Colleges and Teachers of Agriculture (NACTA)	2024 - Present

ADDITIONAL TRAINING AND SKILLS

Languages:

- English (Professional proficiency), Spanish (Native Speaker)

Software and Computational Languages Experience:

- R Studio, Markdown, Shiny
- Python
- QUARTO
- LaTeX, Overleaf
- Visual Studio Code, Google Colab, Jupyter, Github