

Manuel Garcia

Ph.D. Candidate in Agricultural and Applied

Economics

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EDUCATION

Ph.D. in Agricultural and Applied Economics, *Texas Tech University*, Lubbock, TX. (Expected -July 2024)

M.Sc. in Agricultural and Applied Economics, *Texas Tech University*, Lubbock, TX, 2020.

B.S. in Environment and Rural Development, Escuela Agrícola Panamericana “El Zamorano” Honduras, 2015.

H.S. in Agricultural Sciences, National Central School of Agriculture "ENCA" Guatemala, 2008.

SKILLS

Programming: Python, SQL, R, STATA, SAS

Libraries: Pandas, NumPy, SciPy, Matplotlib, Scikit Learn, Seaborn

Frameworks, Methods & Tools: Excel, Jupyter, Git, Logistic Regression, A/B Testing, Experimental Design, Qualtrics, MTurk, Tableau Desktop

PUBLICATIONS

- Garcia, M., Carpio, C., Hudson, D., Boonsaeng, T., Wang, C. (2023). Mexican consumers' perceptions and preferences for us and Texas beef. *Agribusiness: An International Journal* <https://doi.org/10.1002/agr.21844>
- Garcia, M., Boonsaeng, T., Carpio, C., Casillas-Peñuelas, R., Sanchez-Plata, M. (2023). COVID-19 and Beef Consumption in Mexico. *Journal of Food Distribution Research*, 54(2), pp.105–120. https://www.fdrsinc.org/wp-content/uploads/2023/09/JFDR54.2_5_Garcia.pdf
- Mamani Escobar, B., Sandoval, L., Palma, M., Garcia, M., Carpio, C. (2023). Coffee Sustainability Attributes in Developing Countries: The Honduran Domestic Coffee Market. *International Food and Agribusiness Management Review*. <https://www.wageningenacademic.com/doi/abs/10.22434/IFAMR2022.0126>
- Carpio, C., Coman, I., Sarasty, O., García, M. “COVID-19 Vaccine Demand and Financial Incentives”. *Applied Health Economics and Health Policy* 19.6 (2021): 871-883.
- Sandoval, L., Carpio, C., Garcia, M. "Comparison between Experience-Based and Household-Undernourishment Food Security Indicators: A Cautionary Tale." *Nutrients*, (2020):12(11).
- Castillo, M. J., Carpio, C., Rios, A., Garcia, M., Murguía, J. M. (2023). *El Covid-19 y las innovaciones en sistemas agroalimentarios de América Latina y el Caribe* (IDB-DP-01010 ed.). Inter-American Development Bank. <http://dx.doi.org/10.18235/0005015>
- Carpio, C., Garcia, M., Rios, A., Boonsaeng, T., Murguía, J. M., Wander, A. (2023). *Indicadores de resiliencia económica estática y dinámica para las cadenas de suministro agroalimentario: La pandemia del Covid -19 en América Latina y el Caribe* (IDB-DP-01010 ed.). Inter-American Development Bank. <http://dx.doi.org/10.18235/0004976>
- Carpio, C., Garcia, M., Rios, A., Boonsaeng, T., Murguía, J. M., Wander, A. (2023). *Static and Dynamic Economic Resilience Indicators for Agrifood Supply Chains: The COVID-19 Pandemic in Latin America and the Caribbean* (IDB-DP-01010 ed.). Inter-American Development Bank. <http://dx.doi.org/10.18235/0004976>
- Carpio, C., Boonsaeng, T., Castillo, M. J., Borja, I., Morales, S., Sandoval, L., Garcia Chacalan, M., Muñoz, M., Wander, A., da Cunha, C. *The Impact of COVID-19 in the Agricultural Supply Chain in Latin America and the Caribbean*. Final Report to InterAmerican Development Bank.
- Kang, Q., Carpio, C., Garcia, M., Wang, C., Boonsaeng, T. Chinese Consumers' Preferences for Imported Beef Products. *Agricultural and Resource Economics Review*.

EXPERIENCE

Agricultural consultancy

October 2023 – Dec 2023

CATIE-Costa Rica, Remote

- Conducted quantitative research on cocoa farmers in the Dominican Republic and Puerto Rico to determine government incentives for adopting agricultural practices that prevent *Moniliophthora roreri*. Developed digital surveys using Qualtrics, analyzed data, and wrote periodic reports.

Intern- Data Science for All

October 2022 – Feb 2023

Correlation One, Remote

- Developed data analytics expertise through real-world case study analysis, solving data-centric assignments with actual datasets for practical applications.
- Led a comprehensive data analytics project as part of a team, producing a functioning dashboard, comprehensive report, visual summary, and an engaging final presentation.

Graduate Research Assistant

August 2018 - Present

Texas Tech University, Lubbock, TX

- Conducted quantitative and qualitative research on non-market valuation, consumer demand, and agricultural international trade.
- Employed statistical tools and survey programs to design experiments and effectively collect and analyze primary and secondary data.
- Collaborated in writing and publishing research papers and took part in presenting the findings at both industry and academic conferences.
- Worked jointly with researchers to write grant proposals and contributed to consultations with international agricultural research agencies.
- Instructed undergraduate courses, using diverse methods to impart economic concepts and practical problem-solving abilities, fostering the next generation of leaders.

Extension Agent

January 2016 - June 2018

Zamorano University, Honduras

- Participated in the food security, risk reduction, and agricultural extension program at Zamorano. Trained 100+ medium and small-scale farmers in Honduras, Nicaragua, and Guatemala on sustainable agriculture practices.
- Instructed 150 students annually in lab-based Sustainable Agriculture practices at the agroecological farm.

Agricultural Production Manager

March 2009 - December 2011

Pantaleon Sugar Holdings, Guatemala

- Led a technical team in performing in-field agricultural operations and farm management activities.
- Responsible for identifying and resolving plant health and productivity issues across various agricultural fields.
- Assisted other farm managers in formulating production plans and budgets.

CERTIFICATIONS

Certification in Data Analytics and Data Visualization

February 2023

Correlation One

REFERENCES

Carlos Carpio, Ph. D. Professor, Department of Agricultural and Applied Economics, Texas Tech University.
carlos.carpio@ttu.edu

Darren Hudson, Ph. D. Professor, Associate Dean for Strategic Initiatives & Assessment, Texas Tech University. darren.hudson@ttu.edu

Luis Sandoval, Ph. D. Associate Professor, Institutional Research Coordinator, Zamorano University.
lsandoval@zamorano.edu