

# Manuel Garcia

## Ph.D. Student 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](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 Chaclan, 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](mailto:carlos.carpio@ttu.edu)

Darren Hudson, Ph. D. Professor, Associate Dean for Strategic Initiatives & Assessment, Texas Tech University. [darren.hudson@ttu.edu](mailto:darren.hudson@ttu.edu)

Luis Sandoval, Ph. D. Associate Professor, Institutional Research Coordinator, Zamorano University. [lsandoval@zamorano.edu](mailto:lsandoval@zamorano.edu)