

## Oscar S. Sarasty

Department of Agricultural and Applied Economics  
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**Updated:** September 25, 2023  
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**Languages:** Spanish (native language), English (fluent)

### RESEARCH INTEREST

Consumer Demand and Marketing, Food Policy, and Agribusiness.

### EDUCATION

*Ph.D. candidate in Agricultural and Applied Economics* 05/2024  
Texas Tech University (Expected graduation)

**Advisor:** Modhurima Dey Amin

**Dissertation:** "Essays in food policy and agricultural labor in the United States."

*M.S. in Agricultural and Applied Economics* 2020  
Texas Tech University

**Advisor:** Carlos Enrique Carpio

**Thesis:** "Effect of the traffic-light system for nutritional labeling in processed food products"

*B.S. in Food Engineering* 2017  
Universidad de las Américas, Ecuador

### EMPLOYMENT HISTORY

Graduate Lead Instructor 2022-Present  
Texas Tech University, Lubbock, TX

Graduate Research Assistant 2019-Present  
Texas Tech University, Lubbock, TX

Field Manager 2012-2018  
Agricola SARMI, Quito, Ecuador

Financial Analyst 2016-2018  
Expopetroil Cia. Ltda., Quito, Ecuador

Student Research Assistant 2016-2017  
Universidad de las Américas, Quito, Ecuador

### PUBLICATIONS

Cabrera, T., Carpio, C., **Sarasty, O.**, Watson, S., and Gonzales, S. (2023) "Traffic-light Nutrition Labeling Preferences among Ecuadorian Children." *Agricultural and Food Economics*, 11(41).

Sumrow, S., Hudson, D., **Sarasty, O.**, Carpio, C., and Bratcher, C. (2023) "Consumer preferences for worker and supply chain risk mitigation in the beef supply chain in response to COVID-19 pandemic." *Agribusiness*, 1-17

**Sarasty, O.**, Carpio, C., and Cabrera, T. (2023) "Effect of the traffic-light system on nutrition labeling in processed food products in the Ecuadorian population." *QOpen*, 3(2), qoad018.

Blandon, S., Vargas, D., Casas, D., **Sarasty, O.**, Woerner, D., Echeverry, A., Miller, M., Carpio, C., Sanchez-Plata, M., and Legako, J. F. (2023). "Efficacy of Common Antimicrobial Interventions at and above Regulatory Allowable Pick-Up Levels on Pathogen Reduction." *Foods*, 12(4), 883.

Vargas, D., Blandon, S., **Sarasty, O.**, Osorio-Doblado, A., Miller, M., and Echeverry, A. (2022). "Shelf-Life Evaluation of Pork Loins as Influenced by the Application of Different Antimicrobial Interventions." *Foods*, 11(21), 3464.

Cabrera, T., Palacios, K., Carpio, C., **Sarasty, O.**, Gonzáles, M., Benitez, P., Azuero, K., and Carrión, P. (2022). "Etiquetado nutricional tipo semáforo: conocimiento, uso y preferencias en los adolescentes ecuatorianos: Etiquetado nutricional tipo semáforo en Ecuador." *Revista Española de Nutrición Humana y Dietética*, 26.

Carpio, C., Coman, I., **Sarasty, O.**, and Garcia, M. (2021). "COVID-19 Vaccine Demand and Financial Incentives." *Applied Health Economics and Health Policy*, 19(6), 871-883.

Carpio, C., **Sarasty, O.**, Hudson, D., Macharia, A., and Shibia, M. (2021). "The demand for a COVID-19 vaccine in Kenya." *Human Vaccines and Immunotherapeutics*, 17(10), 3463-3471.

Boonsaeng, T., Carpio, C., Guerrero, P., **Sarasty, O.**, Borja, I., Hudson, D., Macharia, A., and Shibia, M. (2021). "Perceived risks of infection, hospitalization, and death from COVID-19 at the Equator: Ecuador and Kenya." *Disaster Medicine and Public Health Preparedness*, 1-6.

**Sarasty, O.**, Carpio, C., Hudson, D., Guerrero-Ochoa, P., and Borja, I. (2020). "The demand for a COVID-19 vaccine in Ecuador." *Vaccine*, 38(51), 8090-8098.

Tamayo, E., **Sarasty, O.**, and Mosquera, E. (2017). "Aprovechamiento de residuos ligno-celulósicos en la elaboración de empaques secundarios ecológicos." *Industrial data*, 20(2), 37-42.

## REPORTS

Carpio, C., Hudson, D., **Sarasty, O.**, Borja, I., Carrion, C., and Guerrero, P. "Survey Report: Public knowledge, perceptions responses and effects related to the COVID-19 health emergency: The Case of Ecuador."

Carpio, C., Hudson, D., **Sarasty, O.**, and Macharia, A. "Survey Report: Public knowledge, perceptions responses and effects related to the COVID-19 health emergency: The Case of Kenya."

## CURRENT PROJECTS AND MANUSCRIPTS UNDER REVIEW

**Sarasty, O.**, and Amin, M. "Consumer valuation of Thanksgiving items and the role of organic certifications" (Accepted for publication: *Journal of Agricultural and Applied Economics*)

**Sarasty, O.**, Amin, M. and Badruddoza, S. “Comparing Great Recession and COVID-19 using recurrent neural networks: A close look into agricultural commodity prices”, (Revise and resubmit: Special Issue on *Machine Learning, Big Data and Applications in Applied Economics* in *Applied Economic Perspectives and Policy*).

**Sarasty, O.**, and Amin, M. “Consumers’ health and environmental awareness and preferences: The case of high fructose corn syrup” (Submitted: *Applied Economic Perspectives and Policy*)

### **Working Papers**

**Sarasty, O.**, and Amin, M. “Dissecting the effects of COVID-19 containment measures on the United States agricultural and labor markets.”

**Sarasty, O.**, and Amin, M. “Food security as a predictor of internal migration in the United States”

**Sarasty, O.**, Amin, M., and Badruddoza, S. “Effect of non-income variables in the consumption of fresh fruits and vegetables in the United States population”

**Sarasty, O.**, Amin, M., and Badruddoza, S. “Mexican consumers’ willingness to pay for pet food with Texas sorghum.”

Duran, C., **Sarasty, O.**, Lamino Jaramillo, P., and Boren-Alpizar, A. “Closing the gap between coffee and cocoa producers and consumers in Latin America: How much consumers are willing to pay?”

Duran, C., **Sarasty, O.**, Lamino Jaramillo, P., and Boren-Alpizar, A. “What are the attributes that actually catch your eye? A choice experiment to understand Latin America Coffee & Cacao Consumers’ Preferences.”

### **CONFERENCE PRESENTATIONS**

Duran, C., **Sarasty, O.**, Lamino Jaramillo, P., and Boren-Alpizar, A. “What are the attributes that actually catch your eye? A choice experiment to understand Latin America coffee & Cocoa consumers’ preferences.” Lightning session *Annual Meetings of the American and Applied Economics Association*. Washington D.C., July 23-25, 2023. \*

**Sarasty, O.**, Amin, M., and Badruddoza, S. “Assessing the market for sorghum as pet food in Mexico.” Selected Paper Presentations Session of *Western Education and Research Activities Committee on Agribusiness (Western Education and Research Activities Committee on Agribusiness (WERA-72))*. Logan, UT, June 6-7, 2023.

**Sarasty, O.**, Amin, M., and Badruddoza, S. “Effect of non-income variables in the consumption of fresh fruits and vegetables in the United States population.” Paper Presentation *Tufts Nutrition Data Symposium*. Boston, MA, March 8-10, 2023.

Duran, C., **Sarasty, O.**, Lamino Jaramillo, P., and Boren-Alpizar, A. “What are the attributes that actually catch your eye? A choice experiment to understand Latin America Coffee Consumers’ Preferences.” Paper Presentation *Association of International Agricultural and Extension Education Annual Conference*. Guelph, Canada, April 26-29, 2023. \*

Duran, C., **Sarasty, O.**, Lamino Jaramillo, P., and Boren-Alpizar, A. "Closing the gap between coffee producers and consumers in Latin America: How much consumers are willing to pay?" Paper Presentation *Association of International Agricultural and Extension Education Annual Conference*. Guelph, Canada, April 26-29, 2023. \*

**Sarasty, O.**, Amin, M., and Badruddoza, S. "Impact of the Great Recession and the COVID-19 Recession on agricultural commodities price volatility." Selected Paper Presentation *Annual Meetings of the American and Applied Economics*. Anaheim, CA, July 31-August 2, 2022.

**Sarasty, O.**, and Amin, M. "What do Americans think about high fructose corn syrup." Poster Presentation *Annual Meetings of the American and Applied Economics*. Anaheim, CA, July 31-August 2, 2022.

Cabrera, T., **Sarasty, O.**, Watson, S., Gonzalez, M., and Carpio, C. "Traffic-light Nutrition Labeling Preferences among Ecuadorian Children." Lightning Session *Annual Meetings of the American and Applied Economics*. Anaheim, CA, July 31-August 2, 2022. \*

**Sarasty, O.** and Amin, M. "Consumers' health and environmental awareness and preferences: The case of high fructose corn syrup." Paper Presentation *Royal Economic Society Symposium of Junior Researchers*. Online, June 29-30, 2022.

Sumrow, S., Hudson, D., Carpio, C., and **Sarasty, O.** "Consume Beef Preferences and Risk Mitigation in the Beef Supply Chain in Response to COVID-19 Pandemic: A Willingness to Pay Study" Selected Paper Presentation *Annual Meetings of the Southern Agricultural Economics Association*. New Orleans, LA, February 12-15, 2022. \*

**Sarasty, O.**, and Amin, M. "Consumers demand for certified organic products: the case of Thanksgiving basket." Selected Paper Presentation *Annual Meetings of the Southern Agricultural Economics Association*. New Orleans, LA, February 12-15, 2022.

**Sarasty, O.**, Carpio, C., Hudson, D., Machara, A., Shibia, M., Guerrero-Ochoa, P., and Borja, I. "Willingness to Pay for a hypothetical COVID-19 vaccine in the Equator: The case of Ecuador and Kenya." Poster Presentation *Annual Meetings of the Southern Agricultural Economics Association*. Online, February 6-9, 2021.

Cabrera, T., **Sarasty, O.**, Boonsaeng, T., and Carpio, C. "Asociación entre el uso del etiquetado nutricional tipo semáforo y enfermedades crónicas en la población adulta ecuatoriana" *Congreso Internacional de Seguridad Alimentaria y Nutricional*. Cuenca, Ecuador, November 9-13, 2020. \*

**Sarasty, O.**, Carpio C., and Cabrera, T. "Effect of the Traffic-Light System for Nutritional Labeling in Processed Food Products in the Ecuadorian Population." Poster Presentation *Annual Meetings of the American and Applied Economics*. Online, August 10-12, 2020.

**Sarasty, O.**, Carpio, C., Boonsaeng, T., and Sanchez-Pinol, D. "Welfare and Budget Allocation Impacts of Elimination of Fossil Fuel Subsidies: The Case of Ecuador." Selected Paper Presentation *Annual Meetings of the Southern Agricultural Economics Association*. Louisville, KY, February 1-4, 2020.

\* Presentation by a co-author

## GRANTS AND FUNDING

### Grants

Consumers' health and environmental awareness and preferences: The case high fructose corn syrup, 2021-2022, \$768.00 (Awarded).

Texas Tech University

**Role:** Lead Researcher

Non-income insights into fresh fruit and vegetable consumption using Artificial Intelligence models, 2022-2023, \$104,000 (Not awarded).

Healthy Eating Research

**Role:** Researcher

## TEACHING EXPERIENCE

### Lead Instructor, Texas Tech University

AAEC-2401 Agribusiness Marketing (Face to Face, 47 students registered) Fall 2023

AAEC-2401 Agricultural Statistics (Face to Face, 36 students registered) Fall 2023

AAEC-3301 Agribusiness Marketing (Face to Face, 66 students, 4.7/5) Spring 2023

AAEC-3301 Agribusiness Marketing (Face to Face, 46 students, 4.7/5) Fall 2022

### Teaching Assistant, Texas Tech University

AAEC-3316 Applied Risk Analysis and Management (Face to Face) Fall 2023

AAEC-4302 Statistical Methods in Agricultural Research (Online) Summer 2023

AAEC-2405 Agricultural Statistics (Face to Face) Fall 2022

AAEC-3302 Agribusiness Finance (Hybrid) Spring 2022

AAEC-3302 Agribusiness Finance (Hybrid) Fall 2021

AAEC-3302 Agribusiness Finance (Hybrid) Spring 2022

AAEC-3302 Agribusiness Finance (Hybrid) Fall 2020

### Workshop Instructor

Survey and Experimental Design and Analysis Workshop

Department of Agricultural and Applied Economics, Texas Tech University, 2023

Introduction to Statistics for Scientific Research (Seminar in Spanish)

Universidad de El Salvador, 2021

### Guest Lecturer

Econometrics and Dynamic Models

Topic: Linear Regression and Descriptive Statistics Using R (Lecture in Spanish)

Universidad de El Salvador, 2020

### Guest Seminar

Legal and Socioeconomic Proposals in the Pandemic: What to do, how to proceed? (Seminar in Spanish)

ConectaLaw, 2020

## **LEADERSHIP AND SERVICES**

### **Engagement Activities**

2023 Sorghum Checkoff, Houston, TX.

- Conducted interviews to Mexican animal feed and pet food regarding their perspectives and preferences for sorghum.

### **Service**

TEACH Program

Texas Tech University, 2023-2024 cohort

Undergraduate Research Conference, Judge

Texas Tech University, Spring 2023

Virtual poster Competition, Judge

Texas Tech University, Spring 2021

Bob Albin Undergraduate Poster Competition, Judge

Department of Animal and Food Sciences, Texas Tech University, Spring 2019

Agricultural Economics Graduate Student Association, President

Texas Tech University, Fall 2020-Summer 2021

Agricultural Economics Graduate Student Association, Vice President

Texas Tech University, Fall 2019-Summer 2020

Agricultural Economics Graduate Student Association, Secretary

Texas Tech University, Fall 2018-Summer 2019

### **Manuscript Review**

Journal of Agricultural and Applied Economics, Urban Planning, Applied Economics, South African Journal of Economics.

## **SCHOLARSHIPS AND AWARDS**

Third Place, Local Food Economics Data Visualization Virtual Challenge 2023

USDA Agricultural Marketing Service and Agricultural and Applied Economics Association Graduate Student Section

Doctoral Excellence Research Assistant Scholarship

Texas Tech University, Academic Year 2022-2023

Financial aid for Data Analysis with Python

Coursera, Fall 2022

Financial aid for Machine Learning for Data Analysis

Coursera, Summer 2022

Doctoral Excellence Research Assistant Scholarship

Texas Tech University, Academic Year 2021-2022

Institutional Diversity Scholarship

Texas Tech University, Fall 2021

Doctoral Excellence Research Assistant Scholarship  
Texas Tech University, Academic Year 2020-2021

I.S.E.O. Summer Scholarship  
Istituto di Studi Economici e Per L' Occupazione, Summer 2021

Third Place, Sales & Customer Relationship Strategy Competition  
Rawls College of Business Administration, Spring 2019

Erin Wheeler Cook Memorial Scholarship  
Texas Tech University, Academic Year 2019-2020

Bayer Crop Science Fellowship  
Texas Tech University, Academic Year 2018-2019

## **SKILLS**

### **Software**

Stata, SAS, R, Python, MATLAB, Qualtrics, and Tableau

### **Research**

Survey Design, Data collection, Data Science, Applied Econometrics.

## **CERTIFICATES**

Foundational Writing Skills Seminar  
Texas Tech University, Spring 2023

Data Analysis with Python  
IBM, Coursera, 2022

Machine Learning for Data Analysis  
Wesleyan University, Coursera, 2022

I.S.E.O. Summer School  
Istituto di Studi Economici e Per L' Occupazione, 2021

Structured Query Language using SAS  
SAS, Coursera, 2021

SQL for Data Science  
University of California Davis, Coursera, 2021

Practical Time Series Analysis  
The State University of New York, Coursera, 2021

Graduate Research Strategies Initiative  
Texas Tech University Libraries, 2020

## **MEMBERSHIP**

Agricultural Economics Graduate Student Association at Texas Tech University, Agricultural & Applied Economics Association, Southern Agricultural Economics Association.

## REFERENCES

Dr. Modhurima Dey Amin (PhD Advisor)  
Assistant Professor  
Department of Agricultural and Applied Economics, Texas Tech University  
**Email:** Modhurima.Amin@ttu.edu

Dr. Carlos Carpio  
Professor  
Department of Agricultural and Applied Economics, Texas Tech University  
**Email:** Carlos.Carpio@ttu.edu

Dr. Darren Hudson  
Professor and Agricultural Competitiveness Chair  
Department of Agricultural and Applied Economics, Texas Tech University  
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Dr. Syed Badruddoza  
Assistant Professor  
Department of Agricultural and Applied Economics, Texas Tech University  
**Email:** Syed.Badruddoza@ttu.edu