

Claudia V. Montanía

Applied Economist | Regional Economics | Agricultural Economics

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EDUCATION

PhD., Economics and Business, 2019

University of Extremadura, Spain

MSc., Economics and Business, 2016

University of Extremadura, Spain

B.A., Marketing, 2014

National University of Asunción

PROFESIONAL EXPERIENCE

University of Arizona

October 2023-Present

Extension Economist, Department of Agricultural & Applied Economics.

- Input-output economic assessments on Arizona's agrifood and bioeconomy sectors, generating policy insights for state agencies, industry groups, and regional governments.
- Coordinate applied research outputs, grant design, and graduate supervision for multidisciplinary extension projects.
- Co-investigator on projects totaling \$150k+ in funding on topics of agribusiness export sensitivity, water sustainability, and regional development.

United Nations Development Programme

August 2020 – July 2023

Data Analyst, Accelerator Lab Paraguay

May 2021 – July 2023

- Applied economic and survey research to design and evaluate public policy prototypes related to informal labor, food access, and recycling systems in Paraguay.
- Produced policy briefs, technical reports, and dashboards used by Ministries of Labor and local governments.
- Created and delivered applied courses on impact evaluation and social innovation for public and third-sector professionals.

Research Assistant, Accelerator Lab Paraguay

August 2020 – April 2021

- Analysis of secondary sources of data, such as the Permanent Household Survey (Paraguay).
- Analysis of the data generated by impact evaluations developed by the Accelerator Lab.
- Writing result reports.

ACADEMIC & RESEARCH APPOINTMENTS

University of Oviedo, Spain

Visiting Scholar, RegioLab

March 2022 – June 2022

University of Illinois at Urbana-Champaign

Regional Economics Applications Laboratory (REAL)

Affiliated Researcher,

October 2020 – 2021

Visiting Scholar

March 2019 – June 2019

TEACHING EXPERIENCE

Acreditación Profesora Ayudante Doctora, Spain

2022 - Present

- Official certification from the Spanish National Agency for Quality Assessment and Accreditation (ANECA) to qualify as an Assistant Professor under the title "Profesor Ayudante Doctor" in Spanish universities. This certification, awarded by the Ministry of Universities, verifies positive evaluation of both teaching and research activities, meeting the requirements established under Spanish law (Royal Decree 1052/2002 and Organic Law 6/2001).

Latin American Faculty of Social Sciences

2021

- Quantitative Methods in Social Sciences for students of the Master's Degree in Social Sciences (1 course) – 30 graduate students.

Paraguay – Alemana University

2017

- Pre-Calculus for Business Information Technology– 40 undergraduate students.

Multidisciplinary Organization for Support of Teachers and Students

2011-2020

- Course of Scientific Initiation for undergraduate Young Talents with emphasis in Mathematics: Geometry, Algebra, Number Theory, and Combinatorics– 70 undergraduate students.

RESEARCH INTERESTS

Regional and Development Economics, Input-Output Models, Trade and Supply Chains, Water and Resource Economics, Agricultural Policy, Structural and Spatial Analysis, Latin America, South America.

PUBLICATIONS

Peer-reviewed Journal Articles

1. Montanía, C. V., Parra, C., Servent, M., Florentín, C., Kemper, A., Ríos, M., & Setrini, G. (2026). [Trust and Community Interactions in Recycling Behavior: The Case of a Differentiated Waste Collection Program in Paraguay](#). *Environmental Quality Management*, 35(3), e70261.
2. Montanía, C. V., Franco-Solís, A., Fernández-Vázquez, E., & Hewings, G. J. (2025). [Pro-independence feelings and the economic impacts of a secession: a study for the region of Catalonia](#). *Global Challenges & Regional Science*, 100023.
3. Montania, C.V., Duval, D., & Frisvold, G. (2025). [Measuring Arizona Agriculture's Export Contributions and Sensitivity to Trade Policy Shifts](#). *Journal of Regional Analysis & Policy*, 55(3), 91-96.
4. Montanía, C.V., Hewings, G. J., & Ray, D. M. (2025). [Shift-Share Analysis and Multifactor Partitioning: What do Aggregated Data Hide?](#). *Growth and Change*, 56(2), e70035.
5. Lasarte-Navamuel, E., Pérez-Rivero, J. L., & Montania, C (2025). [An empirical analysis of regional phillips curve with spatial dependence](#). *Regional Science Policy & Practice*, 17(2), 100162.

6. **Montanía, C.V., Márquez, MA., Fernández-Núñez, T., & Hewings G.J.D.** (2024). [Toward a more comprehensive shift-share analysis: an illustration using regional data](#). *Growth and Change*.
7. **Montanía C.V., Dall'ërba S.** (2022). [Multi-Dynamic interregional Input-Output Shift-Share: model, theory and application](#), *Economic Systems Research*.
8. Franco, A. and **Montanía, C.V.** (2021). [Dynamics of deforestation worldwide: A Structural Decomposition Analysis of Agricultural Land Footprint in South America](#). *Land Use Policy*.
9. **Montanía, C.V., Fernández-Núñez, MT., and Márquez, MA.** (2021). [The role of the leading exporters in the soybean global trade](#). *Agricultural Economics Czech Republic*
10. **Montanía, C.V., Márquez, M. A., Fernández-Núñez, T., & Hewings, G.J.D.** (2020). [Spatial shift-share analysis: Some new developments](#). *Papers in Regional Science*.

Under Review – Journal Articles

1. **Montanía, C.V.** (2026). Unraveling Region Effects with a New Spatial Multifactor Partitioning Method.
2. Frisvold, G., Duval, D., **Montanía, C. V.**, Bickel, A. (2026). Measuring the economic contribution of the bioeconomy and circular economy: An example from Arizona

Peer-reviewed Policy Briefs

1. **Montanía, C.V., & Duval, D.** (2025). [How much of Arizona's agricultural production stays in-state?](#) The University of Arizona Cooperative Extension (az2121).
2. Parra, C, **Montanía, C.V., Vidal, V., Ríos, M., Closs, A., Figueredo, A., Quiñónez, R., Yegros, O.** (2024). [Monitoreo participativo de la alimentación escolar en Paraguay: Aprendizajes y desafíos](#). Notas de Política UNDP LAC (26).
3. Setrini, G., Mongelós, T., Hernández, G., Ovando, F., **Montanía, C.V., Parra, C, Ríos, M., Recalde, M.** (2023). [What are the main barriers to formalizing paid domestic work? Lessons from Paraguay](#). Development Futures Series. United Nations Development Programme.
4. **Montanía, C.V., Parra, C, Setrini, G., and Ríos, M.** (2021). [Social capital in Paraguay: an asset to combat vulnerability during the COVID-19 pandemic?](#) *Development Futures Series*. United Nations Development Programme

In Preparation - Articles

1. Dall'ërba S., **Montanía, C.V.,** and Franco, A. (2026): How U.S. tariffs on Canadian and Mexican agrifood disrupt multiple U.S. sectors?
2. **Montanía, C.V., Franco, A., and Dall'ërba S.** (2026). Accounting for adaptation in the measurement of water embedded in the global agri-food value chain.
3. **Montanía, C.V., Franco, A., Servent, M.** (2026). The environmental implications of being the breadbasket of the world: an analysis of crop water use in MERCOSUR. *In preparation*
4. Fernández-Núñez, T., Márquez, M.A., **Montanía, C.V., & Hewings, G.J.D.** (2026). Geographic proximity or industrial linkages? Unraveling the factors driving export concentration.

Extension reports

1. Montanía, C.V., & Duval, D. (2025). [Arizona Local Foods and North-South Food Pipeline](#). Available at SSRN 5336502.
2. Montanía, C.V., Frisvold, G., & Duval, D. (2025). [The Contribution of Cotton to Arizona's Economy](#). Available at SSRN 5283625.
3. Montanía, C.V., Duval, D., & Frisvold, G. (2025). [The Contribution of Agricultural Exports to Arizona's Economy](#). Available at SSRN 5187309.
4. Montanía, C.V., Duval, D., & Frisvold, G. (2025). [Arizona's Agribusiness System in the State Economy: An Economic Contribution Analysis for 2022](#). Available at SSRN 5136861.
5. Montanía, C.V., Duval, D., Quintero, J. H., & Frisvold, G. (2025). [Arizona's Horse Racing Industry: An Economic Contribution Analysis](#). Available at SSRN 5136655.
6. Duval, D., Frisvold, G., & Montanía, C.V. (2025). [Effects of Depredation & Mexican Gray Wolf Presence on Ranch Returns: Case Study of a Representative Ranch in Arizona](#). Available at SSRN 5236366.
7. Duval, D., Montanía, C.V., Frisvold, G., & Quintero, J. H. (2025). [Economic contribution of Yuma County agriculture](#). Available at SSRN 5136559.
8. Duval, D., Montanía, C.V., & Quintero, J. H. (2024). [Arizona County Agricultural Economy Profiles](#). Available at SSRN 5136831.
9. Duval, D., Montanía, C.V., & Frisvold, G. (2024). [Visitor Impacts of Arizona Athletics Events-FY 2023](#). Available at SSRN 5136585.

Conference papers

1. Montanía, C.V., Parra, C, Florentín, C, Kemper, A., Ríos, M., & Setrini, G. (2023). [Dignificando el reciclaje a través de la confianza. In Actas del X Simposio Iberoamericano de Ingeniería de Residuos: Hacia la circularidad y el residuo cero](#). Castelló de la Plana, 20, 21 y 22 de junio de 2023 (p. 100). Servei de Comunicació i Publicacions.
2. Frutos, P., Dominguez, D., Noguera, E., Parra, C, Montanía C.V., Cernuzzi, L (2022). [The Role of ICTs in the Management of Citizen Initiatives led by Women from Vulnerable Communities of Bañado Sur de Asunción During COVID-19](#). XIV Congress of Latin American Women in Computing.

Media

1. Dall'erba, Sandy; Bock, David; Franco-Solis, Alberto; Montania, Claudia V. (2024). Trade of agricultural and food commodities. figshare. <https://doi.org/10.6084/m9.figshare.25236811.v1>
2. Dall'erba, Sandy; Bock, David; Franco-Solis, Alberto; Montania, Claudia V. (2024). Total amount of water embedded in the trade of agricultural and food commodities. figshare. <https://doi.org/10.6084/m9.figshare.25236844.v2>

Selected Technical Reports

(Complete list of reports: <https://www.undp.org/es/authors/claudia-montania>)

1. Escobar, C, Montanía, C.V., Setrini, G., Parra, C, Garicoche, J., Ríos, M., Giménez, A. [¿Cómo influye el acceso a alimentos frescos y nutritivos en la diversidad de la dieta de los hogares paraguayos?](#). UNDP. 2023.

2. **Montanía, C.V**, Parra, C, Setrini, G., and Ríos, M. [Dignificando el reciclaje a través de la confianza mutua](#). UNDP, 2022.
3. Setrini, G., Hernández, G., **Montanía, C.V.**, Ovando, F., Ríos, M., Parra, C, Recalde, M., Montt., G. [The Meaning of Social Security Among Workers in the Construction Industry](#). MTESS/UNDP. 2022.
4. **Montanía, C.V**, Parra, C, Setrini, G., and Ríos, M. [El Capital Social durante la pandemia en Paraguay](#). UNDP, 2022.
5. Ovando F., **Montanía, C.V**, Parra, C, Setrini, G., Ríos, M., Recalde, M., Montt, G. MTESS/UNDP. 2022. [Construyendo conocimiento y conciencia sobre derechos](#). Working paper. AccLab UNDP. Asunción, Paraguay. 34 p.

Selected Academic Blogs

(Complete list of academic blogs: <https://www.undp.org/es/authors/claudia-montania>)

1. [Data to drive the development of the garment sector](#) with Georgina Hernández, Fernando Ovando, Gustavo Setrini, Cristhian Parra, Mónica Ríos, and Marisol Jara Hüttemann. *UNDP Paraguay*. DeC 7, 2022.
2. [In Their Own Voice: Understanding Domestic Work from the Perspective of Workers' Experiences](#) with Georgina Hernández, Tannya Mongelós, Fernando Ovando, Gustavo Setrini, Mónica Recalde, Mónica Ríos, and Cristhian Parra. *UNDP Paraguay*. Aug. 25, 2022.
3. [Mapping social capital, economic vulnerability, and collective action in times of COVID 19 - Part II](#) with with Cristhian Parra, Gustavo Setrini, and Mónica Ríos. *UNDP Paraguay*. May. 26, 2022..
4. [Domestic work: a challenge and a learning agenda for Paraguay](#) with Gustavo Setrini, Tannya Mongelós, Georgina Hernández, Fernando Ovando, Cristhian Parra, and Mónica Ríos. *UNDP Paraguay*. Oct. 13, 2021.
5. [Recycling as a collective action dilemma: how can we address recycling challenges in Asuncion?](#) with Cristhian Parra, Gustavo Setrini, Mónica Ríos, and Alejandra Acuña Balbuena. *UNDP Paraguay*, Mar 25, 2021

SUPERVISION OF STUDENTS

Co-Advisor – Ph.D Program

- **Verónica Rojas Scheffer** 2023-Present
Ph.D. Program in Natural Sciences for Development, National University of Costa Rica.

Co-Advisor – Master's Program

2020-2021

- **Derlis Joel Dominguez Ramirez**
- **Ernesto Fernando Noguera Toffoletti**
- **Pabla Raquel Frutos Presentado (2020-2021)**

Master's in Computer Science with Emphasis in Research and Innovation, UCI - Universidad Católica Nuestra Señora de la Asunción, Paraguay

GRANTS, SCHOLARSHIPS, AND AWARDS

Grants

1. *Water Sustainability Indicators in Arizona Small Grains Industry (2025-2026)*
Roles: Dari Duval (PI), **Claudia V. Montanía** (co-PI), George Frisvold (co-PI).
Funding Institution: Arizona Grain Research and Promotion Council.
Amount: \$27,431.
2. *Arizona State Parks and Trails 2025 Visitor Survey and Economic Impact Report (2025-2026)*
Roles: George Frisvold (PI), **Claudia V. Montanía** (co-PI), and Dari Duval (co-PI).
Funding Institution: Arizona State Parks Board.
Amount: \$76,718.
3. *Economic Contributions of Arizona's Horse Racing Industry (2024-2025).*
Roles: George Frisvold (PI), **Claudia V. Montanía** (co-PI), Dari Duval (co-PI), José H. Quintero (co-PI).
Funding Institution: Arizona's Horsemen Group.
Amount: \$49,000.
4. *Identifying the key international supply-chain linkages in the output and water consumption growth of the agriculture and food sectors (2022-2024).*
Roles: Sandy Dall'erba (PI), Alberto Franco Solis (co-PI), **Claudia V. Montanía** (co-PI), and David Bock (co-PI).
Funding Institution: USDA ERS/Cornell/Colorado State ASTAR
Amount: \$ 96,136.

Scholarships

1. *Scholarship of the "Program for the Connection of Scientists and Technologists" for an academic visit to the University of Illinois at Urbana-Champaign (2018-2019)*
Funding Institution: National Committee of Science and Technology of Paraguay (CONACYT in Spanish).
Amount: \$5,000.
2. *Scholarship to study a Master's degree at the University of Extremadura (2015-2016)*
Funding Institution: Ibero-American Postgraduate University Association (AUIP in Spanish)
Amount: \$10,800.

Awards

1. *Agricultural & Applied Economics Association's prestigious Distinguished Extension/Outreach Program Award – Group (2025), with George Frisvold, Dari Duval, and José H. Quintero.*
The Distinguished Extension/Outreach Program Awards recognize achievement of excellence in extension economics education programs.
2. *Researcher Level I, National Researcher Incentive Program (PRONII) - CONACYT, Paraguay (PRONII), 2022-2025*

ACADEMIC SERVICE & PEER-REVIEW ACTIVITIES

▪ Referee:

Papers in Regional Science, Agricultural Economics (Czech), Marine Policy, Economic System Research, USDA Economic Research Service, International Economics and Economic Policy, Annals of Regional Science, Economic Change and Restructuring, Humanities and Social Sciences Communications.

▪ Service:

1. Co-Chair, 2025 Graduate Student Paper Competitions of the North American Regional Science Association.
2. Co-Chair, 2024 Graduate Student Paper Competitions of the North American Regional Science Association.
3. Member of the Committee, 2022 Graduate Student Paper Competitions of the North American Regional Science Association.

CONFERENCES/ OUTREACH

1. Southern Regional Science Association Meeting (SRSA), Louisville, Kentucky. April 2025.
2. North American Meetings of the Regional Science Association International (NARSI), New Orleans. November 2024.
3. 2024 Arizona Cooperative Extension Conference, Tucson, Arizona. July 2024.
4. 2024 WERA-72 Annual Meeting, Tucson, Arizona. June 2024.
5. North American Meetings of the Regional Science Association International (NARSI), San Diego, California. November 2023.
6. Evidence in Governance and Politics (EGAP) Learning Days, Mexico City. August 2023.
7. Seminario LALICS 2023 "Los nuevos enfoques de la innovación para alcanzar el desarrollo sustentable e inclusivo". Asunción, Paraguay. June 2023.
8. 60th ERSA Congress: Territorial Futures- Visions and scenarios for a resilient Europe. August 2021.
9. REAL Seminar Series, University of Illinois at Urbana-Champaign. June 2020.
10. III Seminar for New Academic Researchers, Castilla-La Mancha, Spain. October 2019.
11. REAL Seminar Series, University of Illinois at Urbana-Champaign. June 2019.
12. REAL Seminar Series, University of Illinois at Urbana-Champaign. May 2019.
13. III Seminar for New Academic Researchers, Extremadura, Spain. October 2018.

TECHNICAL SKILLS & METHODS:

- Input-Output Modeling: national, interregional, and MRIO frameworks
- Structural Decomposition Analysis (SDA), Spatial & Shift-Share methods
- Quantitative Policy Evaluation & Survey Research
- Trade Sensitivity & Supply Chain Network Modeling
- Water Footprint and Resource Use Analysis

LANGUAGES

Spanish (Mother tongue), Guarani (Mother tongue), English.

PROGRAMMING LANGUAGES

- R (high proficiency)
- IMPLAN® (high proficiency)
- Stata (high proficiency)
- Matlab (high proficiency in matrices with large dimensions)
- Python (basic proficiency in managing large databases and data visualization)
- KoboCollect & Qualtrics (high proficiency)