Jeisson Prieto

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EDUCATION

Cornell University Ithaca, NY
Ph.D. Applied Economics and Management, *expected* 2028.
Committee: Ariel Ortiz-Bobea (Chair), Ivan Rudik, Nancy H. Chau, Stefano Galelli.
Visiting: Paris-Saclay Applied Economics (PSAE) with Christophe Gouel (02/2027 - 05/2027)

Universidad Nacional de Colombia, Bogotá, Colombia
M.Sc. in Applied Mathematics, 2022 · B.Eng. in Computer and Systems Engineering, 2018.

RESEARCH INTERESTS

Environmental & Resource Economics · International Trade · Climate Change Adaptation

WORKING PAPERS

1. "Local Shocks, Global Ripples: Climate Disruptions in Maritime Trade Networks" (**Job Market Paper**)
2. "Who gets the water is a pollution decision: allocation with endogenous quality" with Stefano Galelli and Ariel Ortiz-Bobea. *Under review*.
3. "Unpacking the drivers of U.S. agricultural greenhouse gas emissions" with Robert G. Chambers, Ariel Ortiz-Bobea, and Simone Pieralli. *Under review*.
4. "Quantifying Water Use Drivers in Agri-food Supply Chains: Integrating Supply Chain and Structural Decomposition Analysis" with Miguel I. Gomez and Patrick Canning.
5. "Silvopasture serves as a safety net for environmental and social stressors" with Julian Chará, Natalia Leyva, Andres Piamba, Chloe Yi-Luo Cho, André Kessler, Katja Poveda. *Under review*.

PUBLICATIONS

1. **Prieto, J.**, Lin, Z., Reed, K. F., Wolf, C. A., & Ortiz-Bobea, A. (2026). Milk composition responses amplify economic damages from heat stress. *Environmental Research Letters*, 21(12), 124029.
2. Yi, J., **Prieto, J.**, Garner, E., & Tufan, H. A. (2026). According to whom? Spousal, household, and plot differences in improved cassava variety adoption in Nigeria. *Plants, People, Planet*.
3. **Prieto, J.**, Malagón, R., Gomez, J., & León, E. (2021). Urban Vulnerability Assessment for Pandemic Surveillance—The COVID-19 Case in Bogotá, Colombia. *Sustainability*, 13(6), 1-13.
4. Gomez, J., **Prieto, J.**, Leon, E., & Rodriguez, A. (2021). INFEKTA—An agent-based model for transmission of infectious diseases: The COVID-19 case in Bogotá, Colombia. *PloS one*, 16(2), e0245787.
5. Pulido, C., **Prieto, J.**, & Gómez, F. (2019). How The Social Interactions in Communities affect the Fear of Crime. *Systems Research and Behavioral Science*, 36(6), 789-798.

SEMINAR AND CONFERENCE PRESENTATIONS

2026 (including scheduled): LACEA–LAMES Annual Meeting, Midwest International Trade & Theory Conference, Cornell SEERE Seminar, Paris-Saclay Conference on Trade and Environment, EAERE Summer School, Caribbeans for Climate – Research Symposium.
2025: AGU25 Annual Meeting, Cornell SEERE Seminar, Workshop de Matemáticas Aplicadas – UNAL, AERE Summer Conference.
2024: Invited Presentation ERS-USDA, Cornell EWRS Seminar.
Before 2024: Genetic and Evolutionary Computation Conference (2019), Doctoral Consortium on Computational Sustainability (2019), International Pre-COSALFA 46 Seminar (2019), World Conference on Complex Systems (2018). IEEE Congress on Evolutionary Computation (2018).

WORK & RESEARCH EXPERIENCE

Research Assistant, Cornell University. 2023 – 2026
Profs. Ariel Ortiz-Bobea, Miguel Gómez, and Hale Ann Tufan.
Empirical research on climate adaptation, water allocation, and agricultural GHG emissions

Co-Founder and CTO, mandatum.co. 2021 – 2026
Climate-tech startup redirecting retail commerce toward forest and ocean conservation.

Data Analyst and software developer, Greenlight: Dairy Nutrition 2018 – 2021
Applied mathematical models for nutrient allocation optimization on dairy farms.

Research Assistant, Universidad Nacional de Colombia. 2016 – 2021
Profs. Francisco Gómez, Jonatan Gómez, and Elizabeth León.
Agent-based and network models for disease surveillance, animal health, and urban security.

TEACHING EXPERIENCE

Teaching Assistant, Cornell University 2025
Empirical Methods for Applied Economists (graduate), Fall 2025
Designing and Building AI Solutions (graduate), Summer 2025

Teaching Assistant, Universidad Nacional de Colombia 2018 - 2021
Basics of Computer Science - “Misión TIC 2021” (undergraduate), Spring 2021
Computer programming (undergraduate), Spring 2020
Agent-based models (graduate), Fall 2018 - Fall 2020

HONORS & AWARDS

Chateaubriand Fellowship, Embassy of France in the United States 2027
Graduate Fellowship in Doctoral Program, Cornell University 2022 - 2028
Best Student in master’s Program, Universidad Nacional de Colombia 2019 - 2021
Best poster work, International Pre-COSALFA 46 Seminar 2019
Best Undergraduate Thesis, Colombian National Contest Otto de Greiff 2018

OTHER

Programming languages: R, Python, Julia, Matlab, JavaScript, and LATEX.
Languages: Spanish (native), English (fluent), French (basic).
Citizenship: Colombian.

REFERENCES

Ariel Ortiz-Bobea - ao332@cornell.edu
Associate Professor
Applied Economics and Policy
Cornell University.

Ivan Rudik - irudik@cornell.edu
Kenneth L. Robinson Professor
Applied Economics and Policy
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Miguel Gómez - mig7@cornell.edu
Robert G. Tobin Professor
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Jonatan Gómez - jgomezpe@unal.edu.co
Full Professor
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