

Jeisson Prieto

Dyson School of Applied Economics and Management · Cornell University · Ithaca, NY
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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.

Universidad Nacional de Colombia, Colombia

Bogotá,

M.Sc. in Applied Mathematics, 2022 · B.Eng. in Computer and Systems Engineering, 2018.

RESEARCH INTERESTS

Trade & Environment · Climate Change Adaptation · Environmental and Resource Economics · Water Management · Computational Sustainability

WORKING PAPERS

1. “Local Shocks, Global Ripples: Climate Disruptions in Maritime Trade Networks” (**Job Market Paper**)
2. “Agent-based Model for Simulating Disease Propagation under Complex Network Structures” with Jonatan Gomez, Arles Rodríguez, and Elizabeth Leon.
3. “Revealed Preferences of Centralized Decision-Makers: Evidence from the Panama Canal” with Stefano Galelli and Ariel Ortiz-Bobea. *Under review*.
4. “Unpacking the drivers of U.S. agricultural greenhouse gas emissions” with Robert G. Chambers, Ariel Ortiz-Bobea, and Simone Pieralli. *Under review*.
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): EAERE Summer School, Paris-Saclay Conference on Trade and Environment, Caribbeans for Climate – Research Symposium, LACEA–LAMES Annual Meeting, Cornell SEERE Seminar.

2025: AGU25 Annual Meeting, AERE Summer Conference, Cornell SEERE Seminar.

2024: Cornell EWRS Seminar, Invited Presentation ERS-USDA.

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.

Miguel Gómez - mig7@cornell.edu

Robert G. Tobin Professor

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Ivan Rudik - irudik@cornell.edu

Kenneth L. Robinson Professor

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Full Professor

Department of Engineering

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