VERONICA MARRERO – TRUJILLO

University of Colorado Boulder

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EDUCATION

University of Colorado Boulder	Aug. 2022 - Present
Ph.D. student, Strategy, Entrepreneurship and Operations at Leeds School of Business	Boulder, CO, USA

Universidad Nacional de Colombia	Dec. 2021
Master's in Engineering – Energy Systems	Medellín, Colombia

Thesis: A microworld for learning about the diffusion of non-conventional renewable electricity generation technologies in Colombia. Available at: https://www.energetica2030.co/micromundo/

Coursework: System Dynamics, System Thinking, Operations Management, Uncertainty Decisions.

Universidad Nacional de Colombia	Jul. 2018
Bachelors of Industrial Engineering	Medellín, Colombia

RESEARCH EXPERIENCE

Member of Decision Sciences Research Group	Aug. 2018 – Present
Universidad Nacional de Colombia.	Medellín, Colombia

Junior Researcher	Dec. 2020 – Present
Facultad de Ingeniería, Universidad de Antioquia.	Medellín, Colombia

- Researching sustainability of socio-ecological systems in strategic catchment areas in contexts of environmental change.
- Application of the Wayfinder guide.

Student Researcher	Aug. 2018 – May 2021
Facultad de Minas, Universidad Nacional de Colombia. Energética 2030 Project.	Medellín, Colombia

- Developed simulations for a learning platform about Renewable energy in Colombia.
- Designed a simulation model for evaluating the effect of energy auctions in renewable energy adoption in Colombia.

Student Researcher	Oct. 2019 – Dec. 2019
Facultad de Minas, Universidad Nacional de Colombia and Aarhus University.	Medellín, Colombia

- Designed and executed economic experiments in energy markets and organizational behavior.

Student Researcher	Aug. 2018 – Dec. 2018
Facultad de Minas, Universidad Nacional de Colombia. WWF Colombia.	Medellín, Colombia

- Systemic analysis of deforestation drivers in Colombia.
- Developed causal loop diagrams for deforestation drivers in Colombia.

TEACHING EXPERIENCE

Lecturer	Feb. 2020 – Jun. 2022
Engineering Departament, Institución Universitaria Politécnico Grancolombiano.	Medellín, Colombia

- Teach and design theoretical and practical undergraduate courses such as Production Management, Occupational Safety and Health Administration, and Decision-making models. Teaching of theory and practical courses.

- Grade tests and homework related to production systems and mathematical models in operations management.
- Advise undergraduate students in their course's projects during the semester, and the development of their dissertations.

Teaching Assistant   May. 2020 – Sep. 2020

Department of Computer Sciences and Decisions, Facultad de Minas,   Medellín, Colombia
Universidad Nacional de Colombia.

Advisor: Gloria Patricia Jaramillo, Ph.D.
- Taught theory and practical classes of graduate course: Decisions Under Uncertainty in Organizations.
- Designed and graded homework related to mathematical models for decision-making processes.
- Advised master students in the development of coursework in Decisions Under Uncertainty in Organizations course.

Lecturer   Aug. 2018 – May. 2020

Department of Computer Sciences and Decisions, Facultad de Minas,   Medellín, Colombia
Universidad Nacional de Colombia.

Advisor: Santiago Arango-Aramburo, PhD.
- Taught theory and practical classes of undergraduate course: Systems Dynamics.
- Designed and graded homework related to causal relations and stocks and flows simulations.
- Advising undergraduate students in semestral projects on the System Dynamics course.

Teaching Assistant   Jan. 2017 – Jul. 2018

Department of Computer Sciences and Decisions, Facultad de Minas,   Medellín, Colombia
Universidad Nacional de Colombia.

Advisor: Santiago Arango-Aramburo, PhD.
- Designing and grading of tests and homework of undergraduate course: Systems Dynamics.
- Advising undergraduate students in semestral projects on the System Dynamics course.

HONORS AND AWARDS

Academic rights waiver scholarship for the Master's in Engineering –   2018 – II, 2019 – I, 2019 – II &2020 –
Energy Systems at Universidad Nacional de Colombia.   I

PUBLICATIONS

Arias-Gaviria, J., Suarez, C.F., **Marrero-Trujillo, V**. et al. Drivers and effects of deforestation in Colombia: a systems thinking approach. Reg Environ Change 21, 91 (2021). https://doi.org/10.1007/s10113-021-01822-x

WORKING PAPERS

Marrero-Trujillo, V; Arias-Gaviria, J; Arango-Aramburo, S; Larsen, E. A microworld for learning about the diffusion of non-conventional Renewable electricity generation technologies in Colombia.

Marrero-Trujillo, V; Arias-Gaviria, J; Arango-Aramburo, S. Explosión de energía solar en Colombia ¿una utopía o un

escenario posible? (Solar energy explosion in Colombia: a utopia or a possible scenario?)

Marrero-Trujillo, V; Baena, D; Berrio, L; Berrouet, L; Villegas, C; Ezzine-de-Blas. Understanding the complexity of sustainable trajectories of a Socio-ecological System through the Wayfinder Guide. An application in the Tropical Andes (Colombia)

PRESENTATIONS

Marrero-Trujillo, V; Arias-Gaviria, J; Arango-Aramburo, S. A microworld for learning about the diffusion of non-conventional Renewable electricity generation technologies in Colombia. 38th International Conference of the System Dynamics Society, 2020.

ADDITIONAL COURSEWORK

University of Michigan/Coursera	May.2020 – Dec. 2020
Python for Everybody	Online
Universidad de los Andes/Coursera	Oct. 2020
Sustainable Development Goals for Latin America and the Caribbean	Online
Stanford online/Coursera	Aug. 2019 – Oct. 2019
Writing in the Sciences	Online

SKILLS

Computer skills:	Microsoft Office (Word, Excel, PowerPoint), Python, PowerSim, Vensim, Stella Architect.
Languages:	Spanish (native), Proficiency in English