Marcelo Ortiz-Villavicencio

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Atlanta, GA
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EDUCATION

Emory University — Atlanta, GA
Ph.D in Economics — *2022 - current*

Relevant Coursework: Quantitative Methods I-II; Analysis II; Microeconomic Theory I-II; Macroeconomic Theory I-II; Probability & Statistics; Econometrics Methods I-II; Probability Theory; Market Structures & Imperfect Competition; Machine Learning Theory; Advanced Microeconometrics; Causal Inference.

Escuela Superior Politécnica del Litoral (ESPOL) — Guayaquil, Ecuador
M.Sc. in Economics; Valedictorian — *2019 - 2021*

Escuela Superior Politécnica del Litoral (ESPOL) — Guayaquil, Ecuador
B.A. in Economics; Top-3% — *2014 - 2019*

RESEARCH INTERESTS

Econometrics, Causal Inference, Machine Learning

PUBLICATIONS

- Heterogenous treatment effects of a voluntary Inclusionary Zoning program on housing prices.
  (with Gonzalo E. Sánchez & Mario A. Fernández, *Housing Studies, 2024*)

WORK IN PROGRESS

- Heterogeneous Treatment Effects with Continuous Treatments.

- Triple Differences: Doubly Robustness, Semiparametric Efficiency and Beyond.
  (with Pedro H. C. Sant'Anna)

RESEARCH EXPERIENCE

Emory University — Atlanta, GA
Research Assistant to:
- Prof. Pedro H.C. Sant'Anna: Spring 2024
- Prof. Elena Pesavento: Fall 2023

Inter-American Development Bank — Washington D.C.
Research Assistant to Juan Pablo Chauvin, Ph.D. — *Aug 2021 - Feb 2022*

ESPOL — Guayaquil, Ecuador
Research Assistant — *Jan 2018 - Sept 2019*

TEACHING EXPERIENCE

Emory University — Atlanta, GA
Teaching Assistant
- ***ECON 621 - Econometric Methods I***: (Graduate) Spring 2024
- ***QTM 365 - Parametric Statistics***: (Undergraduate) Fall 2023
- ***ECON 320 - Econometrics***: (Undergraduate) Fall 2023

ESPOL — Guayaquil, Ecuador
Teaching Assistant — *2017 - 2019*
- ***Econometrics II***: (Undergraduate) Potential Outcomes Framework, Instrumental Variables, Regression Discontinuity Design, Panel Data and Difference-in-Differences.
- ***Statistical Inference***: (Undergraduate) Continuous Distributions, Point Estimate, Confidence Interval, Hypothesis Testing, Maximum Likelihood Estimation, ANOVA, and Linear Regression.

Work Experience

Rappi   Guayaquil, Ecuador
Sr. Data Scientist   *2021 - 2023*
- Machine Learning Modeling
- MLOps and ML Engineering
- Experimentation

Nodel   Guayaquil, Ecuador
Data Scientist   *2019 - 2021*
- Data Science & Advanced Analytics
- Natural Language Processing
- Network Analysis
- Times Series Analysis

Awards & Honors

- 2022: Laney Graduate School Fellowship to Doctoral studies

- 2021: Best student in his Master's program (Valedictorian).

- 2019: Masters Full Scholarship for graduate studies at ESPOL.

- 2018: Elected as a Student Representative to the Board of Directors of the School of Social Science and Humanities, ESPOL.

- 2018: Won a *Merit Scholarship* based on high-achieving and academic distinction (Undergraduate level) in the Department of Economics at ESPOL.

- 2011-2014: Winner of the *Medalla Escolar* from Benemerit Guayas Philanthropic Society (awarded to the best students of all the schools in the City of Guayaquil).

Seminars & Conferences

- 2020: Paper *Analyzing Global and Local News Differences in Latin America* accepted in *12th International Conference on Social Informatics*

- 2019: Paper *CEO Gender and Firm Performance* accepted in *IX Semana Internacional de Economía, Quito, Ecuador.*

- 2019: Paper *Understanding Latin American Citizens Concerns through Online Newspapers* accepted in *Latin American WEB Congress*, San Francisco, CA, USA.

Skills & Other information

- *Programming*: Python, R, C++, Stata, Matlab, SQL

- *Libraries & Technologies*: Scikit-learn, Pytorch, TensorFlow, MLflow, Databricks, AWS, Snowflake, Airflow, Spark

- *Languages*: Spanish (native), English (fluent)

- *Citizenship*: Ecuador