

Jaime Andrés Castañeda

Data Scientist

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Summary of Qualifications

- Researcher with 10+ years of experience applying data analysis to study decision-making in supply chains
- Data science and machine learning training with Correlation One and DeepLearning.AI using Python and SQL
- Rigorous, organized and ready to give a hand to my teammates and learn from them

Skills

- **Programming languages:** Python, SQL, Java
- **Analytics:** data wrangling, data visualization, descriptive and inferential statistics, econometrics, machine learning
- **Tools:** Python (pandas, numpy, matplotlib, seaborn, scikit-learn, keras), Postgres, Stata, SPSS, Excel, Power BI, Git, Qualtrics, LimeSurvey

Relevant Experience

Data Science Fellow, *Correlation One*

Mar 2022 – Jul 2022 | Remote

- Collaborated with five teammates to analyze motorcycle accidents in Bogotá for prioritizing road safety operations, pulling data from a GIS web service into a local Postgres database using Python and SQL
- Analyzed more than 200,000 rows of accident-related data, creating heatmap visualizations based on crosstabs that relate accident type, accident severity and vehicles involved using SQL, Python and Seaborn
- Developed an unsupervised machine learning (ML) model by engineering continuous and categorical features using the K-Prototype algorithm in Python, defining prioritization levels for road safety operations

Associate Professor, *Universidad del Rosario*

Sep 2021 – Jan 2022 | Bogotá, Colombia

- Co-led a funded research project that evaluated the role of expediting prices in inventory replenishment, implementing an in-person and online behavioral experiment with 400+ participants
- Examined more than 25,000 rows of replenishment decisions, creating column chart visualizations of the decisions grouped by expediting prices and behavioral interventions, averaged over subjects
- Fit several supervised ML models using random-effects panel data models in Stata, providing insight into how expediting prices impact replenishment decisions

Assistant Professor, *Universidad del Rosario*

Apr 2016 – Sep 2021 | Bogotá, Colombia

- Advised the World Food Programme on the potential of return contracts to scale crop storage technology production, leading a funded project that implemented a behavioral experiment in Uganda with 40 students and six tinsmiths
- Studied about 2,000 rows of production decisions, generating scatter chart visualizations of the decisions grouped by contract type and contract prices, averaged over subjects
- Estimated several supervised ML models using multiple linear regression models in Stata, providing insight into how return contracts influence production decisions

Additional Experience

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|---|---------|
| • Analyze data from latest academic projects using Python libraries for data science | Present |
| • Built a data pipeline module for my data science fellowship project to update the local database with monthly accident-related data | 2023 |
| • Added a Power BI dashboard to my latest academic project to provide an overall understanding of the implemented behavioral experiment and its results | 2022 |

Education

Ph.D., Economics, *Università della Svizzera italiana*

2013 | Lugano, Switzerland