Guillermo Parra

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SKILLS

Technologies: Python, R, STATA, SQL, Excel
Libraries: pandas, scikit-learn, NumPy, TensorFlow, statsmodels, dplyr, ggplot2, tidyr
Languages: English (Fluent), Spanish (Fluent)

EXPERIENCE

Data Scientist - Economist | Deloitte Toronto, *Oct 2024 – Present*

- Collaborating with cross-functional teams to perform statistical modelling and data ETL processes using Python and SQL.
- Support clients on energy system and infrastructure impacts during the energy transition.
- Worked with large, structured and unstructured datasets to conduct advanced statistical analysis.
- Applied advanced statistics, data mining, predictive modeling, and computational economics to generate actionable client insights and inform decision-making processes.
- Employed economic modelling tools for linear programming and optimization in the energy sector.
- Communicated complex data analyses effectively to stakeholders, aiding in pitches and proposal bids.

Research Analyst | University of British Columbia Vancouver, *May 2024 – Sept 2024*

- Identified trends from 1000s of voting observations on conservation funding using R.
- Used causal inference and spatial data analysis to evaluate conservation funding efficiency.
- Improved policy impact evaluations by collaborating with researchers on hypothesis development.

Research Analyst | University of Guelph Guelph, *June 2022 – Dec 2022*

- Webscraped, cleaned and validated over 2 million macroeconomic observations from FRED using R.
- Data collected was used in the following working papers: Quantile Machine Learning and the Cross-Section of Stock Returns and Can AI Read the Minds of Corporate Executives?

EDUCATION

University of British Columbia Vancouver

Master of Arts in Economics at the Vancouver School of Economics (VSE) (4.0 GPA)

- Righting the Writers - An R and Python causal inference project analyzing political bias on Wikipedia using a LLM-based sentiment analysis, involving extensive web scraping, data cleaning, and visualization. It earned the highest mark in the class and is currently a finalist for the best MA thesis.
- Grading the Graders - A Python-based causal inference project to analyze UBC professors' contract statuses effects on class averages, involving data scraping, cleaning (PDF to CSV), and visualization. This paper was recognized as the best term one paper, earning the first-ever 100% grade.

University of Guelph Guelph

Bachelor of Commerce, Economics and Finance Major, Mathematics Minor (3.7 GPA)

- Department of Economics and Finance Chair's Economics Scholar
- UofG Curriculum Committee; Guelph Economics Students' Association President. Publications