Daniel Sánchez

MASTER OF ARTS IN ECONOMICS

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📊 Project Portfolio   🐙 GitHub   ® RPubs

SUMMARY

· MA Economics (Simon Fraser University), Economic Analyst (Government of Alberta), Research Associate (Ecuadorian Development Research Lab).
· **Research interests**: Applied microeconomics (labour, education), Political economy.
· **Languages:** English (fluent), Spanish (native), French (basic).

EDUCATION

MASTER OF ARTS IN ECONOMICS   SIMON FRASER UNIVERSITY
Aug. 2022 - Apr. 2024   Burnaby, BC

Awarded **full funding** (TA) and an entrance scholarship among 100+ applicants. GPA: 3.97/4.33.

BACHELOR OF ARTS, DUAL   UNIVERSIDAD SAN FRANCISCO DE QUITO
Jan. 2017 – May. 2022   Quito, Ecuador

Bachelor of Arts in **Economics & Finance**. GPA: 3.82/4.00 (EC) & 3.81/4.00 (FI).
Attended **Michigan State University** for one exchange year (2019-2020) on **full funding**. GPA: 3.9/4.0.

RESEARCH EXPERIENCE

RESEARCH ASSOCIATE   ECUADORIAN DEVELOPMENT RESEARCH LAB
June 2022 - Present   Ecuador

· Research-oriented membership in an Ecuadorian nonprofit, involving the co-authorship of quantitative research papers, including a paper to be submitted to *The Gerontologist International Spotlight*.
· Reviewing and maintaining the organization's blog, El Quantificador, developed with R's *blogdown*. Contributed three articles to the blog involving the analysis of socioeconomic issues.

RESEARCH INTERN   ECUADORIAN COMPANIES SUPERINTENDENCY
January 2022 - April 2022   Guayaquil, Ecuador

· Contributed to the production of empirical papers and literature reviews.
· Produced original research, later published in the institution's peer-reviewed journal.

PUBLICATIONS

1. Faytong, M.; Quijano-Ruiz, A.; **Sanchez-Pazmino, D.** et al. (forthcoming). Randomized Community Trial to Assess Nutritional, Socioeconomic, and Health Outcomes of a Food Forest Initiative in Santa Elena Province, Ecuador: A Study Protocol. Frontiers in Public Health 12 (2024). https://doi.org/10.3389/fpubh.2024.1420310.

2. Sánchez Pazmiño, D. (2023). Honesty by Convenience: Corruption Tolerance in Ecuador. In *The Philosophy, Politics and Economics Review*. Link .

3. Sánchez-Pazmiño, D.H. (2022). Immunizing the Economy: A Causality Discussion on Vaccines and Economic Recovery. In *X-Pedientes Económicos*. Link.

Select Industry Experience

Economic Analyst | Alberta Treasury Board and Finance
Sep. 2023 – Present | Edmonton, AB

· Supporting Alberta's economic account nowcasting, implementing R and SQL assets in production for expenditure and income accounts.
· Developing microeconomic analysis using econometric methods for requests from Government of Alberta ministries, including inequality analysis, policy impact evaluation, among others.
· Leveraging R, Stata and Python for visualization and analysis of data, producing reports, publications and presentations, exploiting economic literature across theory and applied fields.

Junior Economist (Co-op) | Natural Resources Canada
Jun. – Dec. 2023 | Vancouver, BC

· Developed **5+ dashboards** and data visualization pipelines on natural resource sectors' economic and environmental statistics, leveraging Power BI, R and Tableau data visualization.
· Implemented dynamic reporting pipelines with Quarto, Jupyter and RMarkdown, following industry standards for coding best practices.

Data Analyst (part-time) | Milmoh, S.L.
May 2022 - April 2023 | Valencia, Spain (remote)

· Transformed, analyzed and visualized data with Power BI, Tableau and R, creating 20+ dashboards, 50+ analytical pipelines and 25+ results presentations.
· Created and maintained SQL queries through PostgreSQL for BI assets in Power BI, Tableau and R.

Skills

· PROGRAMMING: **R**: base, *tidyverse*, *sf*, *infer*, *data.table*, *caret*, *survey*, *tidymodels*, *tidytext*, etc. **Python**: `pandas`, `numpy`, `polars`, `scipy`, `scikit-learn`. **Julia**: `Dataframes.jl, Tidier.jl, Flux.jl`.
· STATISTICAL PACKAGES: Stata, EViews, SAS, SPSS, Minitab.
· DOCUMENT MARKUP: LaTeX, RMarkdown/Quarto, Markdown, *knitr*, *sweave*.
· DATA VISUALIZATION: Power BI, Tableau, *shiny/flexdashboard*, *ggplot2*, *plotly*, *highcharter*, `matplotlib`, `seaborn`, `Plots.jl`, `TidierPlots.jl`.
· DATABASES & DATA MANIPULATION: PostgreSQL & SQL Server, Power Query, Mashup, etc.
· OTHERS: Git, GitHub, Unix (Shell scripting), MATLAB, Dynare, *blogdown*. APIs with *selenium*, *quantmod*, *wbstats*, *Quandl*, *spotifyr*, *geniusr*, *lastfmR*, etc.

Additional Education

Statistics Canada Supply and Use Framework and Input Output Modelling	STATISTICS CANADA
Benchmarking: Theory and Application	STATISTICS CANADA
Understanding and Visualizing Data with Python	COURSERA (UNIVERSITY OF MICHIGAN)
Understanding and Visualizing Data with Python	COURSERA (UNIVERSITY OF MICHIGAN)
Python Fundamentals (skill track)	DATACAMP
Data Scientist Professional with R (career track)	DATACAMP
Introduction to Stata 15	LINKEDIN LEARNING
Simon Fraser University Data Fellowships: AI Essentials	SFU BIG DATA HUB
Intermediate SQL	DATACAMP