Daniel Sánchez
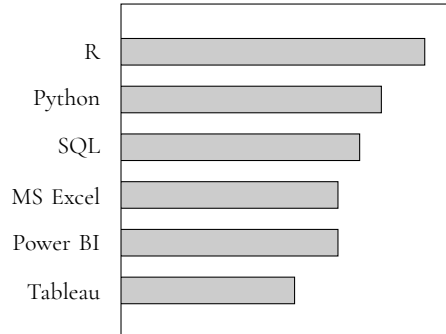
DATA ANALYTICS · CAUSAL INFERENCE · APPLIED FINANCE

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SUMMARY

· Experienced data analyst and applied researcher with interests in causal inference, causal machine learning and financial econometrics.
· Advanced skills in analytical and visualization pipelines using R, Python, SQL and Power BI.
· **Languages:** English (advanced, TOEFL 119/120), Spanish (native), French (basic).
· Project portfolio hosted on personal website.

EDUCATION

Aug. 2022 – Apr. 2024	**M.A.** Economics SIMON FRASER UNIVERSITY, BURNABY, BC, CANADA

Awarded full funding among 100+ applicants. GPA 3.89/4.33.

Jan. 2017 – May. 2022	**B.A.** Economics, **B.A.** Finance (magna cum laude) UNIVERSIDAD SAN FRANCISCO DE QUITO, ECUADOR

Double majored in Economics & Finance. GPA 3.82/4.00 (EC) & 3.81/4.00 (FI). Attended **Michigan State University** for one academic year exchange (2019/2020) **on full funding**, GPA. 3.9/4.0.

SELECT INDUSTRY EXPERIENCE

Jun. 2023 - present	Junior Data Analyst NATURAL RESOURCES CANADA, OTTAWA, CANADA (REMOTE)

· Co-op position in NRCan's Innovation Branch, ending **December 2023**. Assisted in dashboarding, reporting and data access pipelines using Power BI, R and Python for the Clean Technology Data Strategy initiative.
· Developed presentations and reports for the department's leadership, using economic and environmental data from various sources, including Statistics Canada, Capital IQ, PitchBook, among others through API access with R/Quarto and Python/Jupyter.

Aug. 2022 - Aug. 2023	Teaching Assistant SIMON FRASER UNIVERSITY, BURNABY, BC, CANADA

· Cooperating with SFU Economics as a TA in ECON310 Money & Banking (Fall 2022), ECON355W Economic Development (Spring 2023) & ECON103 Principles of Microeconomics (Summer 2023).
· Coordinating with professors and co-TAs to prepare class seminars, manage the course LMS, create and grade assignments and exams, work with students during weekly office hours.

May 2022 - April 2023	Data Analyst MILMOH, S.L., VALENCIA, SPAIN (REMOTE)

· Wrangled, analyzed and visualized data with Power BI, Tableau and R, creating powerful dashboards and reporting pipelines to aid 10+ European clients in business decisions.
· Managed and structured data models with PostgreSQL to deploy and maintain assets in Power BI, Tableau and R. Developed periodic reports, documentation and presentations.

SKILLS

· MULTIPURPOSE SCRIPTING: **R** (3+years): *tidyverse*, *knitr/sweave*, *infer*, *caret*, etc. **Python** (1 year): `pandas`, `numpy`, `polars`, `scipy`, , etc.
· DASHBOARDING & VISUALIZATION: **Power BI** (1 year), **Tableau** (1 year), *shiny/flexdashboard*, *ggplot2*, *plotly*, *dygraphs*, *highcharter*, `matplotlib`, `seaborn`.

· Data Management: PostgreSQL & SQL Server (1 year) Power Query, Mashup, *dplyr*, `pandas`, `polars`, *data.table*.
· Document Markup: LaTeX, Quarto, Markdown, RMarkdown.
· Others: Git, GitHub, Unix, MS Office, Stata, Minitab, IBM SPSS, MATLAB, VBA. API access using *selenium*, *quantmod*, *wbstats*, *Quandl*, *spotifyr*, *geniusr*, *lastfmR*, `yfinance`, `wbgapi`, etc.

Publications

Peer-reviewed

1. Sánchez Pazmiño, D. (2023). Honesty by Convenience: Corruption Tolerance in Ecuador. In *The Philosophy, Politics and Economics Review.* https://pressbooks.lib.vt.edu/app/uploads/sites/47/2023/03/PPER-Volume-2-2023.pdf.

2. Sánchez-Pazmiño, D.H. (2022). Immunizing the Economy: A Causality Discussion on Vaccines and Economic Recovery[1]. In *X-Pedientes Económicos.* https://daniel-ec.netlify.app/files/research/immunizing-the-econ.pdf.

Media

1. Quijano, A. & **Sánchez, D.** (2023). Homosexuality: what do Ecuadorians think about it? (In Spanish). ISSN 2953-6456. ↗

2. Marchán, A. & **Sánchez, D.** (2023). Three problems for the quantitative analysis of femicides in Ecuador (In Spanish). ISSN 2953-6456. ↗

3. Sánchez, D. (2022). A quantitative perspective on the Ecuadorian protests (In Spanish). ISSN 2953-6456. ↗

Additional Education

Oct. 2023	Understanding and Visualizing Data with Python	Coursera (University of Michigan)
Oct. 2023	Python Fundamentals (skill track)	DataCamp
Sept. 2023	Data Scientist Professional with R (career track)	DataCamp
Mar. 2023	Introduction to Stata 15	LinkedIn Learning
Nov. 2022	Simon Fraser University Data Fellowships: AI Essentials	SFU Big Data Hub
May 2022	Intermediate SQL	DataCamp
May 2022	Power BI & Tableau Fundamentals (skill tracks)	DataCamp

Research Affiliations

Jun. 2022 - present	Research Associate	Ecuadorian Research Development Lab

· Co-authorship of research papers with organization members, including a work in progress to be submitted to The Gerontologist.
· Established the first DataCamp Donates partnership in Ecuador. DC Donates provides free data education to disadvantaged individuals and communities through partners. · Assisting in the implementation of several of the organization's projects, including education on data science for women, *New Dimensions*.
· Reviewer for the organization's blog-type website El Quantificador, developed in an R/Hugo environment.

Jan. - April 2022	Research Intern	Superintendencía de Compañías del Ecuador

· Contributed to the production of empirical papers and literature reviews, notably, a paper on family businesses in Ecuador.
· Produced original research using administrative data, later published in the institution's peer-reviewed journal.

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[1]See this link for original journal publication.