

Daniel Sánchez

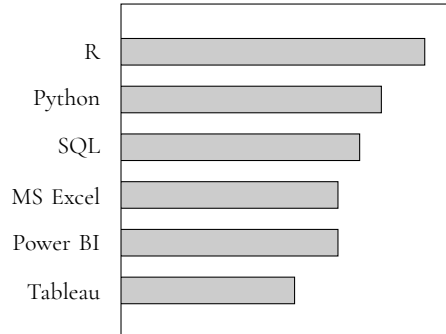
DATA ANALYTICS · CAUSAL INFERENCE · APPLIED FINANCE

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☎ +1 236 308 8801 in LinkedIn 🐦 Twitter 🏠 Personal Website 📄 GitHub 📄 R Pubs

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**.

Last updated October 9, 2023. This is a short CV, please visit here for further information. Developed using L^AT_EX markup and pgfplots/tikz visualisation. Source code made available on GitHub.

· 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 Recovery¹. 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

| | | |
|------------|---|-------------------|
| Sept. 2023 | Python Fundamentals (skill track) | DATA CAMP |
| Sept. 2023 | Data Scientist Professional with R (career track) | DATA CAMP |
| 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 | DATA CAMP |
| May 2022 | Power BI & Tableau Fundamentals (skill tracks) | DATA CAMP |

RESEARCH AFFILIATIONS

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|---------------------|--|---|
| 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 <i>The Gerontologist</i> . · 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, <i>New Dimensions</i> . · Reviewer for the organization's blog-type website <i>El Quantificador</i> , developed in an R/Hugo environment. | |
| Jan. - April 2022 | Research Intern | SUPERINTENDENCIA 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. | |

¹See this link for original journal publication.