

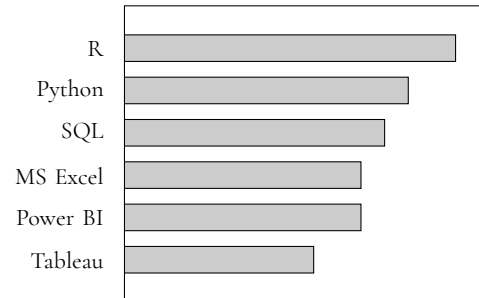
Daniel Sánchez

DATA ANALYTICS · CAUSAL INFERENCE · APPLIED FINANCE

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🐦 Twitter 🌐 Personal Website 📁 Project Portfolio 🐙 GitHub 📄 RPubS

SUMMARY

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



EDUCATION

- Aug. 2022 – Apr. 2024 **Master of Arts** in Economics SIMON FRASER UNIVERSITY, BURNABY, BC, CANADA
Awarded full funding among 100+ applicants. GPA 3.89/4.33.
- Jan. 2017 – May. 2022 **Bachelor of Arts** in Economics, Finance UNIVERSIDAD SAN FRANCISCO DE QUITO, ECUADOR
Double major 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** with GPA. 3.9/4.0.

SELECT INDUSTRY EXPERIENCE

- Aug. 2022 – Present **Teaching Assistant** SIMON FRASER UNIVERSITY, BURNABY, BC, CANADA
· TA for Economic Development (Spring 2024 & 2023), Principles of Microeconomics (Summer 2023) and Money and Banking (Fall 2022) as a part of a full funding package in SFU MA program.
· Preparing class seminars, creating and grading assignments/exams for 200+ students per semester and holding one-hour tutorials to 20+ students 4+ times a week.
- Jun. - Dec. 2023 **Junior Data Analyst** NATURAL RESOURCES CANADA, OTTAWA, CANADA
· Co-op student at NRCan's **Clean Technology Economic Analysis Unit**, supporting the producing data analytics of the Canadian clean technology sector for the implementation of business-oriented policy.
· Produced data analysis, reporting and visualization pipelines with R, Python and Power Query/Mashup, following industry standards for code formatting, connecting to APIs for data access using *statcanR*, *wbgapi*, Bloomberg, PitchBook, S&P Capital IQ, among others.
· Developed 5+ Power BI and Tableau **dashboards**. Documented programs, scripts and dashboards for future use, focusing on reproducibility and best coding practices.
· Created and presented reports to top organization officials, implementing dynamic updating pipelines with RMarkdown, Quarto and Jupyter.
- May 2022 - April 2023 **Data Analyst** MILMOH, S.L., VALENCIA, SPAIN
· Transformed, analyzed and visualized data with Power BI, Tableau and R, creating 20+ dashboards and 50+ analytical/reporting pipelines for remote-based MilmoH.
· Managed and structured data models with PostgreSQL to deploy and maintain assets in Power BI, Tableau and R, implementing coding best practices.
· Reviewing and improving prior company assets in SQL and Power BI, validating existing methods with evolving expectations and new methodologies. Developed periodic reports, product documentation and result presentations in **a client-facing team**.

SKILLS

· MULTIPURPOSE SCRIPTING: **R**(3+years): *base*, *tidyverse*, *infer*, *ranger*, *caret*, *survey*, *tidymodels*, *tidytext*, etc. **Python**(1 year): **pandas**, **numpy**, **polars**, **scipy**, **xgboost**, etc.

· DATA SCIENCE/ECONOMETRICS: **supervised learning** (regression (OLS), classification, decision trees, random forests, GAMs, GMM, GLS, gradient boosting), **unsupervised learning** (clustering, PCA, k-means), **statistics** (hypothesis testing, ANOVA, experimental design, bootstrapping, sampling, mixed models), **causal modeling** (A/B testing/randomized trials, IV/TSLS, difference-in-differences, regression discontinuity, matching, synthetic control, etc.)

· DASHBOARDING & VISUALIZATION: **Power BI** (1 year), **Tableau** (1 year), *shiny/flexdashboard*, *ggplot2*, *plotly*, *dygraphs*, *highcharter*, **matplotlib**, **seaborn**.

· DATA MANAGEMENT & MANIPULATION: **PostgreSQL & SQL Server** (1 year), Power Query, Mashup, *dplyr*, *tidyr*, *data.table*, *zoo*, *lubridate*, *stringr*, *XLConnect*, *openxlsx*, **pandas**, **polars**,

· DOCUMENT MARKUP: **LaTeX** (3+ years), Quarto, Markdown, RMarkdown, *knitr*, *sweave*.

· OTHERS: Git, GitHub, Unix, MS Office, Stata, Julia, SAS, Minitab, SPSS, MATLAB, VBA, *blogdown*. APIs with *selenium*, *quantmod*, *wbstats*, *Quandl*, *spotifyr*, *geniusr*, *lastfmR*, 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. [🔗](#)

See also self-hosted publications in English and Spanish in [personal website](#), constructed using R & Quarto.

ADDITIONAL EDUCATION

| | | |
|------------|---|-----------------------------------|
| Oct. 2023 | Understanding and Visualizing Data with Python | COURSERA (UNIVERSITY OF MICHIGAN) |
| Oct. 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, ECUADOR |
| <ul style="list-style-type: none"> · Co-authorship of quantitative research papers with organization members. · Established the first DataCamp Donates partnership in Ecuador in 2022. DC Donates provides free data analysis education to disadvantaged individuals and communities through partners. · Reviewer and maintainer for the organization's blog-type website <i>El Quantificador</i>, developed with R using <i>blogdown</i> & Hugo. | | |

¹See this link for original journal publication.