

# Daniel Sánchez

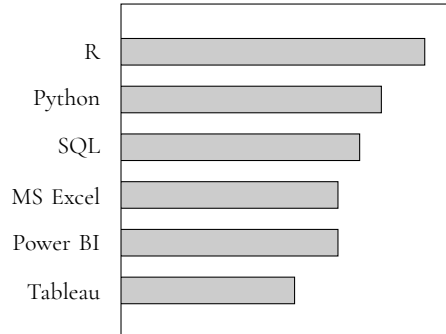
DATA ANALYTICS · CAUSAL INFERENCE · APPLIED FINANCE

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## SUMMARY

- Experienced data analyst and applied scientist with interests in causal inference, causal machine learning and financial econometrics.
- Advanced skills in transformation, analytics 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 student at NRCan's Innovation Branch in the Clean Technology Economic Analysis Unit, ending **December 2023**, assisting in documentation, reporting, dashboarding and visualization taskings through Python, R, Power BI and Microsoft Excel.  
· Produced data analysis, reporting and visualization pipelines with R and Python code, following industry standards for formatting and connecting to APIs/web scraping for data access using *statcanR*, *wbgapi*, *rvest*, Bloomberg, PitchBook, S&P Capital IQ, among others.  
· Developed 5+ Power BI dashboards to be deployed in the Cleantech Economic Analysis Unit's website, implementing DAX best practices for measures and scripts across dashboard files.  
· Documented programs/scripts and dashboards for future use, focusing on reproducibility and dynamic updating using RMarkdown, Quarto and Jupyter. Created and presented reports to top officials.
- Aug. 2022 – Aug. 2023    Teaching Assistant    SIMON FRASER UNIVERSITY, BURNABY, BC, CANADA  
· Cooperated with SFU Economics as a TA in ECON310 Money & Banking (Fall 2022), ECON355W Economic Development (Spring 2023) & ECON103 Principles of Microeconomics (Summer 2023) as a result of full funding package due to top applicant status in MA Economics program.  
· Coordinated with professors and co-TAs to prepare class seminars, managed the course LMS, create and grade assignments and exam for 200+ students per semester.  
· Taught one-hour seminars to 20+ students four times a week, leading class discussion, teaching complicated quantitative concepts, reviewing written contents and working with students during weekly office hours.
- May 2022 - April 2023    Data Analyst    MILMOH, S.L., VALENCIA, SPAIN (REMOTE)  
· Transformed, analyzed and visualized data with Power BI, Tableau and R, creating 20+ dashboards and 50+ analytical/reporting pipelines for a Europe-based data analytics consulting company  
· 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, validating existing methods with expectations and new methodologies. Developed periodic reports, documentation and presentations in a **client-facing team**.

Last updated December 19, 2023. Developed using L<sup>A</sup>T<sub>E</sub>X markup and **pgfplots/tikz** visualization. Source code made available on GitHub.

## 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:  $\text{\LaTeX}$ , 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<sup>1</sup>. 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)	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

Jun. 2022 - present	Research Associate	ECUADORIAN RESEARCH DEVELOPMENT LAB, GUAYAQUIL, ECUADOR
	· 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 projects, including US Embassy financed, <i>New Dimensions</i> (business intelligence education for women) and the upcoming US Embassy-financed <i>Young Researchers Fellowship</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, GUAYAQUIL, 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 (see <i>Immunizing the Economy</i> ).	

<sup>1</sup>See this link for original journal publication.