Daniel Sánchez

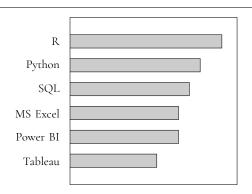
Data Analytics · Causal Inference · Applied Finance

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 in LinkedIn
 ● Twitter
 ♣ Personal Website
 ♠ GitHub
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SUMMARY

- · Data analyst and applied researcher with interests in causal inference, causal machine learning and financial econometrics.
- · Advanced skills in building 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

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.
- \cdot Coordinate with professors and co-TAs to prepare class seminars, create and grade assignments and exams for 200+ students per semester.
- · Holding one-hour seminars to 20+ students four times a week, teaching complicated quantitative concepts, reviewing written contents and working with students during weekly office hours.

Jun. - Dec. 2023

Junior Data Analyst

NATURAL RESOURCES CANADA, OTTAWA, CANADA (REMOTE FULL TIME)

- \cdot Co-op student at NRCan's Innovation Branch in the Clean Technology Economic Analysis Unit, supporting economic, financial and statistical analysis of the 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**, *rvest*, Bloomberg, PitchBook, S&P Capital IQ, among others.
- · Developed 5+ Power BI and Tableau dashboards to be deployed in the team's website. Documented programs, scripts and dashboards for future use, focusing on reproducibility and best coding practices.
- · Created and presented reports to top officials in the organization, implementing dynamic updating using R and Python pipelines with RMarkdown, Quarto and Jupyter.

May 2022 - April 2023

Data Analyst

MILMOH, S.L., VALENCIA, SPAIN (REMOTE PART-TIME)

- · 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 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.

Last updated December 24, 2023. Developed using Last updated pgfplots/tikz visualization. Source code made available on GitHub.

Daniel Sánchez Curriculum Vitæ

SKILLS

 \cdot 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 (logit/probit classification, decision trees, random forests, regression (OLS), GAMs, GMM, GLS, gradient boosting, etc.), unsupervised learning(clustering, PCA, k-means, etc.), statistics (hypothesis testing, confidence intervals, ANOVA, experimental design, bootstrapping, sampling, surveys, etc.), causal inference modelling (A/B testing, IV/TSLS, difference-in-differences, regression discontinuity, randomized control trials, 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, zoo, lubridate, stringr, XLConnect, openxlsx, pandas, polars, data.table.
- · DOCUMENT MARKUP: LATEX, Quarto, Markdown, RMarkdown, knitr, sweave.
- · 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

- 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.
- 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

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, GUAYAQUIL, ECUADOR

- \cdot 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 projects, including US Embassy financed, *New Dimensions* (business intelligence education for women) and the upcoming US Embassy-financed *Young Researchers Fellowship*.
- · Reviewer for the organization's blog-type website El Quantificador, developed in an R/Hugo environment.

¹See this link for original journal publication.