

SANTIAGO RODRIGUEZ

STATISTICIAN | DATA SCIENTIST

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📁 [Portfolio](#)

EDUCATION

Texas A&M University
Dec 2021
M.S in Statistics

Florida State University
May 2014
B.S in Finance

TECHNICAL

Programming Languages
Python, R, Julia

Data:
SQL, PySpark, Pandas,
data.table, Polars, Arrow,
Parquet, Feather, CSV, APIs

Machine Learning:
SKLearn, tidymodels

Tools:
Databricks, Alteryx, Excel/VBA

Visualization:
Power BI, Tableau, Shiny

Version Control:
Git, GitHub, GitLab

Development Tools:
Jupyter Labs, VS Code, Quarto

Other:
AWS, Agile, Scrum, YAML,
JSON, Linux, shell, Docker

PUBLICATIONS

- Primers on functional data analysis [2021](#), [2022](#)
- The Power of Functional Data Analysis [2023](#)
- Internet Outage Detection Using Julia [2023](#)
- Texas Parks & Wildlife Web App [2024](#), [code](#)
- Arxiv Package Analysis [2024](#)

PASSIONS

Open-Source Contributions
Continual Learning
Mentoring

EXPERIENCE

Deloitte

Remote

Data Science Manager (Global Finance)

Oct 2022 – Present

- Led transformation of annual people analytics pay equity initiative by introducing modern software engineering practices (git, box, RStudio project files, renv, YAML config files, and unit tests) and advanced statistical methods (multilevel modeling, linear regression, beta regression, and ordinal logistic regression, Tukey's HSD, bootstrapped confidence intervals (R))
- Handpicked to perform advanced statistical analysis using quantile regression for a highly sensitive, cross-functional project evaluating Deloitte Africa partner performance to support strategic talent decisions (R)
- Engineered an automated Databricks workflow utilizing statistical methods, machine learning models, and deep learning resulting in a 10% pts improvement in sales forecast accuracy for Deloitte's Global CFO (Python: PySpark, Nixtla; R: fable)
- Developed a predictive model to assess the probability of success of sales opportunities using Sklearn pipelines, Catboost, and re-calibrated probabilities (Python, Pyspark) enhancing strategic decision-making and resource allocation
- Led a team of junior data scientist, data engineer, and visualization specialist

Consumer Energy

Remote

Data Scientist (Marketing)

Mar 2021 – Oct 2022

- Recognized as "Chief Innovation Officer" by Director for leading initiatives and presenting white papers on functional data analysis applications in energy and marketing ([YouTube](#))
- Developed propensity models and implemented advanced analytics techniques (MDS, correspondence analysis, clustering) to increase enrollment rates and foster data discussion
- Created experimental design framework for marketing initiatives, including a Shiny app for random sampling that reduced workload from weeks to minutes ([app](#))
- Established "Standards Universe" to enhance team efficiency:
 - Developed SQL and MLOps standards, created a Python package for model tracking
 - Implemented data science best practices for project reproducibility and quality
- Created comprehensive documentation of data science team capabilities, facilitating better cross-functional collaboration and resource allocation ([file](#))

Signify Health

Dallas, TX

Data Scientist (Go-To-Market)

Jan 2020 – Feb 2021

- Architected a critical COVID-19 forecasting model using SIR model of epidemiology, cubic splines, and Prophet, enabling data-driven decisions on office reopening and physician deployments, directly impacting company operations and safety protocols (R) ([app](#))
- Engineered a comprehensive client segmentation and benchmarking system leveraging advanced analytics techniques (hierarchical clustering, bootstrapping, multidimensional scaling), resulting in an executive-level dashboard that drove actionable insights for sales and account management (R, SQL, Power BI)

Toyota Motors North America

Plano, TX

Senior Analyst (Risk)

Oct 2018 – Oct 2019

Southwest Airlines

Dallas, TX

Analyst (Revenue Management & Marketing)

Jun 2015 – Oct 2018