

# Francisco Rodríguez

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## EXPERIENCE

### CABILDO DE LA PALMA

#### Data Scientist

January 2024 – January 2025

- Development of ETL processes and pipelines for data retrieval through APIs from various components of La Palma Smart Island project.
- Task automation using Python notebooks on the ArcGIS Online platform.
- Exploratory data analysis (Python, R) and dashboard design (Power BI, Tableau, ArcGIS Online).
- Data cleaning and normalization, preparation of on-demand reports on various metrics, and identification of patterns and correlations.

### UNIVERSITAT OBERTA DE CATALUNYA

#### Data Scientist

September 2024 – January 2025

- Collaboration with Filarmonía de Madrid during my master's final project.
- Development, evaluation, and comparison of different machine learning models for user segmentation and sales prediction based on real datasets.
- Provided insights by addressing specific stakeholder questions (Filarmonía de Madrid) and assessed the impact of external factors on their activities (competition, overlap with sports events, etc).

### UNIVERSITY OF LA LAGUNA

#### BSc Physics Final Project

January 2021 – July 2021

- Analysis and parameterization of the intrinsic components of an astrophysical instrument (EMIR of GTC at IAC).
- Scripting (Python) to obtaining key instrument values based on calibration images.
- Preparation of documentation and technical project report.

### SEGAI internship (General Research Support Service)

September 2018 – January 2019

- Preparation of material samples and measurement using X-ray diffraction.
- Preparation of material samples and observation under electron microscopy.
- Preparation of result reports for service users.

## ADDITIONAL EXPERIENCE

#### Tutor

September 2017 – July 2018

- Tutoring sessions tailored to student needs in physics, mathematics, and chemistry at various secondary education levels.
- Development of personalized notes and sample exercises based on student requirements.

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## EDUCATION

UNIVERSITAT OBERTA DE CATALUNYA - MSc in Data Science and Big Data

January 2025

UNIVERSITY OF LA LAGUNA - BSc in Physics

July 2021

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## ADDITIONAL INFORMATION

### Technical Skills:

- Python (Numpy, Pandas, Scipy, Matplotlib, Seaborn, Plotly, Pytorch, Scikit-Learn, TensorFlow).
- R (dplyr, tidyverse, ggplot2, caret).
- SQL.
- Docker.
- Power BI and Tableau.
- Excel.
- QGIS and ArcGIS.

**Languages:** Spanish (Native), English (Fluent)

### Relevant courses:

- Coursera – Google Data Analytics.
- Udemy – TensorFlow for Deep Learning.
- Udemy – Python for Data Science and Machine Learning.
- FEMXA – Data minning and Business Intelligence.