

# Erika Gutierrez

Email: erika.gutierrez@bse.eu

Cell Phone: +34 697993450 (Spain) +1 3216637412 (USA)

linkedin.com/in/erikangutierrez

Portfolio: erikaguti.github.io

## EDUCATION

### Barcelona School of Economics

Barcelona, Spain

Master Program in Data Science for Decision Making

September 2022 - July 2023

GPA: 8.66/10

Thesis: Forecasting BiciMAD Hourly Demand Using Machine and Deep Learning Methods

### University of Florida

Gainesville, FL, United States

B.A. Economics, Minor in Sustainability, Certificate in GIS

August 2017 - May 2019

GPA: 3.7/4.0 (Summa Cum Laude)

Thesis: Evaluating Effectiveness of Residential Heat Pump A/C Rebate Programs Using OLS

## PROFESSIONAL EXPERIENCE

### United Nations Satellite Center

Barcelona, Spain

Artificial Intelligence and Mapping Contractor

January 2024

- Developing AI methods, algorithms, code, and documentation on mapping natural disasters and supporting humanitarian and human security by using satellite imagery in support of the international humanitarian community and the Sustainable Development Goals (SDGs)

### EconAI

Data Science Consultant

September 2023 - November 2023

- Summarized scientific papers on vanguard causal inference concepts and related them to ongoing applied policy research in order to reduce the level of bias in impact estimates
- Explored and implemented alternative machine learning models and feature engineered new variables to enhance country-level conflict prediction model (see [conflictforecast.org](https://conflictforecast.org))

### RE Tech Advisors

Washington D.C., United States

Analytics Associate

February 2021 - May 2022

- Optimized data collection process to expand energy consumption reporting capabilities for 3+ clients using HTTP request methods, reducing aggregation time by 95% per property
- Created new client capital expenditure tool by designing the database architecture and data processing algorithm, resulting in enhanced dashboards and insights

Data Analyst

June 2019 - February 2021

- Increased accuracy of regulatory energy consumption reporting requirements for commercial RE clients by 75% through design and implementation of geospatial software
- Presented case studies and led workshops on firm analytics tools and resources to online audience of ~50 people
- Owned and managed analytics team's source codes and data processes end-to-end, including extraction, storage, analysis, visualization, and documentation for 10+ clients using Python and SQL Server Management Studio

## SKILLS

**Languages:** English (native), Spanish (advanced), German (intermediate)

**Programming:** Python, R, SQL, Power BI, SQL Server, Excel, Azure, Git

**Machine Learning:** Supervised Learning, Unsupervised Learning, Neural Networks

**Certifications:** Harvard University's CS50x: Introduction to Computer Science (2021)