

Fernando Borrero Granell

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PROFESSIONAL SUMMARY

Recently graduated from Ironhack's Data Analytics Bootcamp. I would like to pair my programming skills with my mathematical background from University to join the world of Data Analysis. I continue to stay up to date by teaching myself new technologies and best practices by using online resources as well as academic books on certain technical areas such as Statistical Inference or Machine Learning.

EDUCATION

- IRON HACK (SEPTEMBER 2022 – NOVEMBER 2022) **MADRID, SPAIN**
Full Time Data Analytics Bootcamp
 - Data Analysis using Python (Pandas, NumPy) & MySQL.
 - Data Visualization (Tableau, Plotly & Seaborn).
 - Build, Evaluate & Deploy Machine Learning Models and Pipelines (Scikit-learn).
 - Inferential Statistics in Python & Business Intelligence.
 - Data Wrangling, Data Cleaning, API & Web Scraping.
- UNIVERSITY OF SEVILLE (2019 – 2023) **SEVILLE, SPAIN**
Completed 75% of the credits towards a Degree in Physics
 - Mathematical methods, Linear algebra & Geometry, and Mathematical Analysis.
 - Scientific programming, Numerical methods & Simulation and Statistical mechanics.

PROFESSIONAL EXPERIENCE

PORTFOLIO

- **510 SPECIES CLASSIFICATION** <https://fbgranell.com/projects/species-classifier/>
Convolutional neural network that visually detects up to 510 bird species with an accuracy of 0.93
- **XGBOOST FOR CAR PRICING** <https://fbgranell.com/projects/car-price-model/>
Developed a machine learning model powered by XGBoost with an R2-test score of 0.92.
- **FINANCIAL FRAUD DETECTOR** https://fbgranell.com/projects/fraud_detector/
Developed machine learning models that detect financial fraud with a F1 score of up to 0.9.
- **SPOTIFY RECOMMENDER SYSTEM** https://fbgranell.com/projects/song_recommender/
Conceived a song recommender by clustering over 60.000 songs with similar audio features.
- **TRAFFIC FLOW AND AIR QUALITY IN MADRID** https://fbgranell.com/projects/traffic_air_madrid/
Analyzed the correlation between air quality and traffic flow for +6 years in Madrid.

ASTROPHYSICS, UNIVERSITY OF OXFORD

OXFORD, UNITED KINGDOM (JULY 2019- SEPTEMBER 2019)

SUMMER INTERNSHIP

- Learned C++ and Python to use its tools for the management, analysis, and visualization of data.
- Analyzed both spatial coordinates and proper motions from RR Lyrae stars throughout the galaxy.
- Developed the first steps towards a new dynamical model of the population of RR Lyrae stars.

LANGUAGES

- **Spanish (Native)**
- **English (Advanced)**. Official CAE/C1 at Cambridge English Qualifications (Seville, 2019)

SKILLS

PYTHON | EXCEL | SQL | APIS | WEBSCRAPPING | STATISTICS | TABLEAU | MACHINE LEARNING | MATLAB |