

FERNANDO GASTÓN

+34 646 76 15 98

fergascod@gmail.com

<https://fergascod.github.io>

EXPERIENCE

Centre de Recerca Matemàtica Research Technician

Barcelona, Spain
January 2024 - August 2024

- Conducted research on predictive coding algorithms and image processing for compression of volumetric images (micro-tomography images). **C++/C**

Polytechnic University of Catalonia (UPC) Teaching Assistant

Barcelona, Spain
September 2023 - August 2024

- Teaching lab and problem sessions for the course in Data Structures and Algorithms for the Bachelor's degree in Computer Science. **C++**

Hewlett-Packard (HP) Data Scientist - 3D Metals R&D department

Barcelona, Spain
February 2023 - September 2023

- Developed a WebApp with data visualization tools for 3D metal printing telemetry data. **Databricks, Streamlit, Docker, SQL**.

Aistechspace [↗](#) Computer Vision Engineer Data Engineering Intern

Castelldefels, Spain
February 2022 - July 2022
June 2021 - August 2021

- Implemented ML-based thermal sharpening algorithms to enhance the spatial resolution of satellite thermal infrared imagery. **Python, sklearn**
- Developed an ETL, API and WebApp to query ADS-B data from satellites and terrestrial antennas. **Flask, GCP** (BigQuery, PubSub), **Terraform**

EDUCATION

Bachelor's Degree in Data Science and Engineering, Polytechnic University of Catalonia

September 2018 - June 2022

Thesis: Tumorous area detection in breast cancer biopsy images using multi-resolution networks [↗](#)

Master's Degree in Advanced Mathematics, Polytechnic University of Catalonia

September 2022 - January 2024

Thesis: Non-Rigid Structure from Motion: What is next? [↗](#)

Exchange studies (Stockholm, Sweden) Kungliga Tekniska Högskolan (KTH)

August 2021 - January 2022

PROJECTS

Bird song learner [↗](#) : Developed a web application to practice your bird identification skills using xencanto's API. **Flask, Python**

Indoor Navigation App [↗](#) : Developed an ML-based indoor navigation mobile app for patients in the Catalan Institute of Oncology. **Flutter, sklearn, HTML/JS/CSS**

TECHNICAL SKILLS

- Programming languages: Python (numpy, Pandas, sklearn), C++, R, Matlab, SQL
- Other: Linux, Docker, Git, GCP, Azure Databricks.