FERNANDO GASTÓN

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EXPERIENCE

Centre de Recerca Matematica   *Barcelona, Spain*
Research Technician   January 2024 - August 2024

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

Polytechnic University of Catalonia (UPC)   *Barcelona, Spain*
**Teaching Assistant**   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)   *Barcelona, Spain*
Data Scientist - 3D Metals R&D department   February 2023 - September 2023

- Development of data visualization tools for 3D metal printing telemetry data. **Databricks**, **Streamlit**, **Docker**, **SQL**.

Aistechspace ↗   *Castelldefels, Spain*
Computer Vision Engineer   February 2022 - July 2022
Data Engineering Intern   June 2021 - August 2021

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

EDUCATION

Bachelor's Degree in Data Science and Engineering,   Sept. 2018 - June 2022
Polytechnic University of Catalonia
Thesis: Tumorous area detection in breast cancer biopsy images using multi-resolution networks ↗

Master's Degree in Advanced Mathematics,   Sept. 2018 - June 2022
Polytechnic University of Catalonia
Thesis: Non-Rigid Structure from Motion: What is next? ↗

Exchange studies (Stockholm, Sweden)   Aug. 2021 - Jan. 2022
Kungliga Tekniska Högskolan (KTH)

TECHNICAL SKILLS

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