FERNANDO GASTÓN

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EXPERIENCE

Centre de Recerca Matematica   *Barcelona, Spain*
Research Technician   *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)   *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*

- Developed a WebApp with 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*

- 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 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)

PROJECTS

Bird song learner ⌐ **:** Developed a web application to practice your bird identification skills using xeno-canto'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.