





# ROGER GONZÁLEZ MARCH

ML Researcher for Planetary Health

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## SUMMARY

I'm a physicist currently doing a Masters in AI. I excel in graphically representing complex data through aesthetics and design. Now, I am actively seeking to transition into a career in AI and Data Science, a move supported by my enrolment in a Master's program in Intelligent Interactive Systems. Leveraging my background in physics and a keen interest in design, I'm eager to explore opportunities where I can fuse science, analytics, and creativity to forge innovative solutions.

## SKILLS

**Core:** Deep Learning, AI/ML Technology, GDL, LLMs, Natural Language Processing (NLP), Agile, Teamwork, Leadership, Proactive, Communication, Empathy.

**Languages:** python, sql, LaTeX, Matlab, ROOT

**Tools:** Pandas, Scikit-learn, Huggingface, TensorFlow, Spacy, Tableau, Power BI, SQL, Snowflake.

## EXPERIENCE

- 11/2023 – Present

**Master thesis in Neutrino Symbolic Representation**

UPF (Universitat Pompeu Fabra) - IPMU

  - I'm currently working on my master thesis, which involves using the SR (Symbolic Regression) Python library and deep learning techniques. My project focuses on extracting symbolic representations from experimental neutrino data.
- 10/2023 – Present

**ML Researcher for Planetary Health**

UPF (Universitat Pompeu Fabra)

  - Specializes in applying data mining techniques and automatic classifiers to unravel the nexus between Planetary wellbeing concepts, such as the Sustainable Development Goals, and the structuring of UPF's academic and research agendas.
  - Contributions underpinned by the Maria de Maeztu Units of Excellence Programme (MCIN/AEI /10.13039/501100011033) and the Center for Studies UPF on Planetary wellbeing, aiming to infuse sustainability into study programs, course plans, and scientific publications.
- 2/2022 – 10/2023

**Data Analyst**

SDG Group

  - Extensive experience in data visualization and analytics, specializing in turning complex data into actionable insights for diverse audiences.
  - Proficient in creating efficient and impactful reports and visualizations using Tableau, SQL, and Python to streamline data access and integration, and automate routine processes.
  - Successful track record in delivering engaging data presentations, enhancing dashboards, and resolving technical issues, with feedback from end-users and stakeholders.
  - Collaborative team player with international experience, adept at Agile methodologies focusing on real-time insights for business decision-making.
- 9/2021 – 7/2022

**Data Analysis at CERN nTOF facility**

UPC (Universitat Politècnica de Catalunya)

  - Developed and executed advanced processing algorithms for digital signals, gaining proficiency with the C++ ROOT framework for data analysis within the CERN nTOF collaboration.
  - Implemented digital filters for neutron detector signals, reconstructed energy spectra under high stacking conditions, and analyzed test data to assess electronic behavior, culminating in a comprehensive technical report.
- 2/2020 – 3/2022

**Raman Spectroscopy**

CCiTUB

  - Conducted research using Raman spectroscopy techniques.
  - Developed skills in scientific analysis and instrumentation.
- 9/2018 – 7/2019

**TIC Control**

UB (Universitat de Barcelona)

  - Engaged in technology control and management tasks.
  - Enhanced technical and organizational skills.

## EDUCATION

- 9/2023 - Present

**Master's Degree in Intelligent Interactive Systems (IIS)**  
Specialization in AI and Data Science, Information Technology

Universitat Pompeu Fabra, Barcelona
- 2017 - 2021

**Bachelor's Degree in Physics**

Universitat de Barcelona

## LANGUAGES

English - Professional, Spanish - Native, Catalan - Native