

PABLO TIKAS PUEYO

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EDUCATION

MSc in Quantum Science & Technology

Universitat de Barcelona

sep. 2024 - jul. 2025

Double BSc in Physics & Mathematics

Universitat Autònoma de Barcelona

sep. 2019 - sep. 2024

PROJECTS

Fraud Detection System [\[LINK\]](#)

Machine Learning

End-to-end fraud detection system with +13M card transactions.

Most Streamed Tracks [\[LINK\]](#)

Data Analysis

Exploratory data analysis project on the most streamed songs on Spotify in 2023.

Quantum Information Paper [\[LINK\]](#)

Theoretical Research

Published research on Deterministic randomness extraction for semi-device-independent QRNGs.

OBJECTIVE

Data Scientist with a strong analytical foundation in physics and mathematics, experienced in translating business needs into ML and AI solutions. Eager to grow in a technically demanding environment and contribute to impactful, data-driven products.

EXPERIENCE

Data Scientist

CaixaBank Payments & Consumer

September 2025 - Present

- Built an end-to-end time series forecasting pipeline (Oracle, XGBoost, Darts, Optuna) fully orchestrated with Apache Airflow.
- Developed a propensity model for consumer finance product targeting.
- Implemented two agentic systems for internal operations: one with Power Automate, one with LangGraph.
- Automated multiple recurring internal workflows with Apache Airflow.

Theoretical Researcher

Quside

February 2025 - July 2025

- Theoretical research on randomness extraction in semi-device-independent QRNGs.
- Ran SDP simulations with NumPy and Optuna.
- Co-authored a peer-reviewed paper.

Theoretical Researcher

ICFO

February 2025 - May 2025

- Researched GNN applications for Quantum State Tomography.
- Built graph representations of quantum states with NetworkX.
- Implemented GNNs with PyTorch Geometric to enhance Quantum State Reconstruction methods.

Software Developer

DataBot Technologies

July 2023 - September 2023

- Built an automated web scraping pipeline (Selenium, Playwright, BeautifulSoup) powering the backend of a production web application.

COMPLEMENTARY EXPERIENCE

Research Presenter

International Conference YQIS, October 2025

- Presented a research poster on QRNGs.
- Engaged with experts and attendees to discuss findings.