

Pablo Ruiz Cuevas

Nuclear and particle physicist · Senior Quantitative Developer · Python

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EXPERIENCE

- 2024 – now

Senior Quantitative Developer · Galleon Ventures

Dubai · Bangkok

 - Design and build investment and trading systems in Python: backtesting, trade execution and data pipelines.
 - Ship fast by coordinating many AI coding agents in parallel: splitting work into tasks, giving each agent context, reviewing and integrating the results.

Python

FastAPI

PostgreSQL

SQLAlchemy

ccxt

Svelte

Docker
- 2023 – 2024

Software Engineer · Imogate

Munich

 - Designed and built the Python data pipelines (pandas, NumPy, FastAPI, SQL Server) behind a new data-analytics platform.
 - Also led R&D of its React front end and project planning in Azure DevOps, coordinating the team to deliver on time.
- 2021 – 2022

Data Analyst · Imogate

Munich

 - Processed large datasets and built complex data transformation pipelines with Python and SQL Server.
- 2019 – 2021

Research Intern · FRM II, TUM

Garching

 - Python analysis and modelling for the MIEZE neutron-scattering technique at the MIRA II spectrometer: reduction factor, Monte Carlo simulation, detector image analysis.
 - Built an interactive research site with a reduction-factor calculator: pabloruizcuevas.github.io.

PUBLICATIONS & OPEN SOURCE

- 2025

A Mathematical Analysis of Placelt: A Game of Perfect Online Sorting

Computers and Games 2024, Springer LNCS 15550, pp. 185–196. With C. Chock and B. Subercaseaux (Carnegie Mellon). Even perfect play wins with probability ≈ 0.0001335 . [doi](#)
- 2023

PEP 718: Subscriptable functions · sponsored by Guido van Rossum

Python Enhancement Proposal with J. Hilton-Balfe: explicit type parameters for generic functions, `f[int]()`, targeting Python 3.15. peps.python.org/pep-0718
- 2024

numty · Typst package

NumPy-style vectors, matrices and broadcasting for Typst. Contributions to pandas, SymPy, Bokeh and staircase; 100+ answers on Stack Overflow, mostly Python and pandas.

SELECTED PROJECTS

- 2026

Perdura · perdura.app

Chess opening preparation: analyses any opponent’s repertoire from over-the-board and Lichess games. SvelteKit, FastAPI, Tauri.
- 2026

Candela · open source

Self-hosted TradingView-style charting with indicators and strategies in plain Python, a strategy tester and server-side alerts.
- 2026

FreeDeskAI

A shared index of all projects for coding agents (Claude Code, Codex, Gemini, opencode), with a desktop app, agent terminals and a live session graph. Electron, Svelte, TypeScript.
- 2022 – 2023

Quant Specialist · Full Stack Developer · Monero Capital · Seren Pension

Munich

Trading-indicator library in Python and Pine Script with automated tests; pension calculation dashboard for advisors in Denmark (SvelteKit, PocketBase).

EDUCATION

- 2018 – 2020

MSc Physics · TUM, Technical University of Munich

Munich

Nuclear, particle and astrophysics (KTA), specialising in data analysis and machine learning. Thesis: deep learning classification of neutrino events at IceCube.
- 2014 – 2017

BSc Physics · Universidad Complutense de Madrid

Madrid

Theoretical physics; Erasmus year at TUM.

SKILLS

- Languages

Spanish (native) · English · German
- Core

Python · quantitative finance · data engineering · typing and API design
- Backend & data

FastAPI · SQLAlchemy · PostgreSQL · SQL Server · pandas · Polars · ccxt
- Frontend

Svelte / SvelteKit · React · TypeScript · Tailwind
- Way of working

Many AI coding agents in parallel · Docker · CI/CD · self-hosting
- Interests

Film photography · chess · running · calisthenics · hiking