



RAÚL PENAGOS SOLÓRZANO

About me:

Physics graduate with strong quantitative and programming skills, currently pursuing a Master in Banking and Quantitative Finance. Seeking to apply mathematical modeling, statistical analysis and machine learning expertise to quantitative challenges. Proficient in Python and data analysis from research projects in particle physics.

EDUCATIONAL BACKGROUND:

- Master in Banking and Quantitative Finance (2025-2027)**
Universidad de Valencia. Inter-university Master program that is furthering my knowledge in Mathematics and Statistics, Financial market modelling using Python and VBA, Stochastic Processes, Risk Management, Derivatives and Econometrics.
 Currently enrolled in the first of two courses.
- Physics Degree (2021-2025)**
Universidad de Cantabria (Santander). Final grade: **9**
 Student representation occupations:
 - Class delegate (2nd, 3rd y 4th course)
 - Member of the Science Faculty Board
 - Member of the Physics Degree Academic Commission

FURTHER TRAINING:

- Spanish Ministry grant for Research Collaboration** at IFCA (2025)
 Developed as my end-of-degree project: Data analysis using Python, Root and the implementation of a Machine Learning Algorithm using PyTorch for denoising protonic tomography images. As well as Python programming and statistical tools used with the goal of calibrating and automatizing a robot in the context of silicon sensors' module assembly. (Graded: **10** with distinction)
- Brown University** research grant (RI) (2024)
- Fundación Amancio Ortega Scholarship** (FAO) (2019-2020)
 High School Year in the USA (11th grade), Philadelphia (MS)

WORK EXPERIENCE:

- Summer 2025: S-Projects in Rails and Lanes (SPIRAL)**
 Work in International Civil Engineering projects. Mainly 3D-modeling US Interstate intersections and data analysis with Excel to ensure that roads comply with existing normative.
- Summer 2024: Brown University (RI) USA**
 Experience as Research Intern in the field of Particle Physics, as part of CMS group at Brown University under Prof. Ulrich Heintz. Collaborated in the Neutron irradiation tests of diodes and silicon particle detectors for LHC's High Luminosity update. Data analysis with Excel and autonomous work in a demanding environment.
- Summer 2023: Evoluziona Luz**
Consulting and customer relations within the energy sector.

Age: 22

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🚗 Driving License B / A2

Personal website:

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PROGRAMMING:

- Python
- PyTorch
- Excel
- VBA
- Matlab
- R
- Linux (WSL)
- LaTeX
- GitHub

LANGUAGES:

- English C1
- Experience in the USA
- Spanish (mother tongue)

GENERAL SKILLS:

- Adaptability
- Fast Learner
- Creativity
- Presentation of results
- Ability to work in a team
- Leadership
- Communication Skills
- Time management
- Perseverance
- Attitude