



Josué Pérez Sabater

Madrid, Spain

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Biomedical engineer from UC3M

Predoctoral Researcher

at GTS-UC3M

with special interest in health data processing, machine learning and sustainability



Methodical and hard-working, with strong organizational, problem-solving, and code-design skills. I have experience across the full data pipeline — preprocessing, analysis, and visualization — as well as in code development and documentation. My **programming experience** includes the analysis and modeling of human behavior in the context of suicide prevention, compartmental modeling of intracranial pulsatility, and the simulation of brain structures through spiking neural networks.

Skills: *Data analysis · Scientific writing · Python · MATLAB*

EXPERIENCE

UC3M | Predoctoral Researcher

Nov 2023 – Present · Leganés

Health data researcher and predoctoral student at the Signal Processing Group working in the field of human behavior analysis, focused on the development of AI-based methods to predict the risk of suicidal behavior.

Hanyang University | Research Intern

Feb–Jul 2022 · Seoul

Internship at the Neural Intelligence Systems Lab, where I modeled a spiking neural network to simulate the central complex in flying insects.

Self-employed | Private Tutor

2018–2023 · Madrid

Academic support in Mathematics, Physics and Chemistry to students in High School.

VOLUNTEERING

Iroko DFS | Project Climate Connect

Mar–Jun 2023 · Madrid · Collaboration on the European project *Climate Connect* to raise awareness about climate change through campaigns led by young students.

Equipo Médula | Campaign volunteer in UC3M

2022 · Leganés · Participation in two information campaigns to promote bone marrow donation.

Colegio Sagrada Familia | Pastoral Sa-Fa

Oct 2018 – Present · Madrid · Active member of the Pastoral at my school: formation of children in Catholic faith, organization of activities and summer camps, social and community volunteer work, liturgy service, web support and content creation.

EDUCATION

Universidad Carlos III de Madrid

Master in Machine Learning for Health

2023–2024 · Leganés · 8.90/10

I specialized in AI applications for medical data and image processing, including machine learning, deep learning, natural language processing and surgical navigation.

Bachelor's Degree in Biomedical Engineering

2018–2023 · Leganés · 8.61/10 · *Beca de Excelencia*

I gained expertise in diverse biomedical fields: image processing, biosensors, tissue engineering and more. My thesis focused on the creation of a compartmental model to investigate intracranial pulsatility, with the aim of understanding cerebrospinal fluid dynamics in different disorders.

Hanyang University | Exchange Program

2021–2022 · Seoul · Improved my English proficiency and gained adaptability and initiative.

Instituto Juan de la Cierva | Complementary Education

2009–2016 · Madrid · Participated in a program (PEAC) offered by the Community of Madrid as a voluntary, free, complementary education that enriches the standard curriculum and stimulates creativity and divergent thinking.

Courses

WoW: Wealth out of waste

BEST · Lyon · Course about circular economy, waste revalorization and urban hydrology.

Retos del Mundo Actual

UC3M · Madrid · Course about the global situation in different aspects: poverty, education, crisis, migrations, etc.