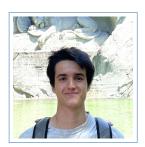# Pablo Suárez

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About me

As a big fan of drawing, and after reconciling my creative side with my technical skills, I began to cultivate a significant interest in using Deep Learning for Computer Vision and Wireless Communications. I completed two programming-focused internships, earning honors in one, while maintaining a 77% average GPA in my final year and concurrently working on my Bachelor's thesis. I'm always looking for new programming challenges and I am interested in Ray Tracing, Digital Twins, 6G, and Sionna. I also enjoy languages and going to the gym.

Education

2014–2018 **High School Diploma**, *Sagrado Corazón Reparadoras High school*, Majadahonda, Madrid

2018–2023 **Bachelor of Science in Electronics and Telecommunications Engineering**, *Complutense University of Madrid*, Madrid
Telecommunications | Electronics | Deep Learning | Wireless Communications

2021–2022 **Electrical and Electronics Engineering**, *École Polytechnique Fédérale de Lausanne*, Lausanne, Switzerland
Exchange student | Bachelor courses | Master courses | Semester project (5/6)

2022–2023 **Deep Learning**, *Coursera, Remotely*, Artificial Intelligence, Specialisation in Deep Learning and Neural Networks
Logistic Regression | Gradient Descent | Machine Learning | Neural Network Design | Python

2023–2024 **Data Science Program**, *Universitat Oberta de Catalunya*
Data mining (90%) | Programming for Data Science (91.43%)

Experience

Volunteering

12/2016- **Academic aid and private classes**, *Sagrado Corazón Reparadoras School*, Ma-
03/2017 jadahonda, Autonomous Community of Madrid, Tutoring and academic support to primary school students with special needs (unpaid)

Work Experience

02/2022– Technical Engineering, *EPFL Rocket Team*, Lausanne, Switzerland, Antenna and
07/2022 Microwave Engineering

Project: Design of a circularly Polarized Patch Antenna in the band of 868-869 MHz for the Ground team.

02/2023– Internship, *Instituto Geográfico Nacional de España y O.A. CNIG*, Madrid, Spain,
04/2023 Python Programming

Project: Extraction of attributes for characterization and categorization of a seismic record. The extracted attributes can be divided into three categories: purely statistical description of the amplitude of the register, spectral description and polarity. The set of these features can serve as training for machine learning methods that allow the classification of events.

04/2023– Internship, *Telefónica*, Madrid, Spain
08/2023 RAN Innovation - Analyst intern. Open RAN and New Radio solutions team based in Madrid (Spain) within the Global Access area of the Chief Technology Office (GCTIO) of Telefónica.

08/2023– O-RAN Analyst & New Radio Solutions, *Telefónica R&D*, Madrid, Spain
today RAN Innovation. Open RAN and New Radio solutions team based in Madrid (Spain) within the Global Access area of the Chief Technology Office (GCTIO) of Telefónica.

Contributions:
- Open6G: research about Reconfigurable Intelligent Surfaces in future 6G networks.
- BeGreen: software development for wireless communications simulations with Sionna, TensorFlow and Keras.

Key activities:
- MIMO simulations with AI/ML simulators such as Sionna (Python).
- Data analysis.
- Analysis of new technical enablers in 6G.
- Analysis of new capabilities in RAN related to different 3GPP releases and O-RAN specifications.
- Support on RAN activities in lab (logistics, setup, test plans)

Computer Skills

Coding	Python, R, Matlab, C, C++, LaTeX, Vivado HLS, Assembly language, Bash, TensorFlow, Matplotlib, Obspy, Keras, NumPy, Pandas, Sionna, PIL, Docker
Microsoft	Word, Excel, Powerpoint
Simulators	PSPICE, Ansys HFSS, Microwave Office, LTSPice, GNU Radio, Microwind, Xilinx
Digital Platforms	Slack, GitHub, Linkedln, Infojobs, Monday, Stack Overflow, Notion

Languages

- Spanish (mother tongue)
- English (C1 level)
- French (B2-C1 level)
- Catalan (B2 level)

Certifications

09/2022– **Deep Learning specialization**, *Coursera, Remotely*, Madrid, Spain
11/2023 (full certificate here)
Completed courses:
○ Deep Learning and Neural Networks.
○ Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization.
○ Structuring Machine Learning Projects.
○ Convolutional Neural Networks.
○ Sequence Models.

02/2023– **Supervised Machine Learning specialization**, *Stanford University and Coursera,*
02/2023 *remotely*, Madrid, Spain.
Completed courses:
○ Regression and Classification (certificate)

09/2023– **Data Science specialization**, *IBM and Coursera, remotely*, Madrid, Spain.
09/2023 **Completed courses**:
○ What is Data Science (certificate)