Pablo Suárez

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About me

As a big fan of drawing and data science, 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, Physical Layer Communications and Deep Learning. I also enjoy languages, going to the gym and contributing to Sionna.

Education

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

2018–2023 **Bachelor of Science in Electronics and Telecommunications Engineering**, *Complutense University of Madrid*, Madrid, Spain
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 specialization**, *Coursera*, Artificial Intelligence, Neural Networks
Logistic Regression | Gradient Descent | Machine Learning | Neural Network Design | Python

2023–2024 **Data Science Program**, *Universitat Oberta de Catalunya*
Data mining (9/10) ⭕ | Programming for Data Science (9.143/10) ⭕

Experience

Volunteering

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

Work Experience

02/2022– 06/2022 **Technical Engineering**, *EPFL Rocket Team*, Lausanne, Switzerland, Antenna and Microwave Engineering
Project: Design of a circularly Polarized Patch Antenna in the band of 868-869 MHz for the Ground team. (5/6) 🖨

02/2023– 04/2023 **Internship**, *Instituto Geográfico Nacional de España*, Madrid, Spain, 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. (Hons) ⭕ 🖨

04/2023– 08/2023	**Internship**, *Telefónica*, Madrid, Spain 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– today	**R&D O-RAN Engineer**, *Telefónica R&D*, Madrid, Spain 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, launching simulations with Sionna, TensorFlow and Keras, and analyzing data with Pandas and other frameworks. 🌐 **Key activities**: ○ MIMO research 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)

Certifications

09/2022– 11/2023	**Deep Learning specialization**, *Coursera, Remotely*, Madrid, Spain **Completed courses** (full certificate 🖨): ○ 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– 02/2023	**Supervised Machine Learning specialization**, *Stanford University and Coursera, remotely*, Madrid, Spain. **Completed courses**: ○ Regression and Classification 🖨
09/2023– 09/2023	**Data Science specialization**, *IBM and Coursera, remotely*, Madrid, Spain. **Completed courses**: ○ What is Data Science 🖨

Computer Skills

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

Languages

Spanish	Native
English	C1
French	B2-C1
Catalan	B2