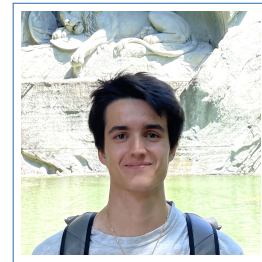


# Pablo Suárez

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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, Digital Twins, Deep Learning, and Sionna. I also enjoy languages and going to the gym.

## 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**, *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 (90%) | Programming for Data Science (91.43%)

## Experience

### Volunteering

- 12/2016–**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–**Technical Engineering**, *EPFL Rocket Team*, Lausanne, Switzerland, Antenna and Microwave Engineering  
07/2022 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*, Madrid, Spain, Python Programming  
04/2023 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, launching simulations with Sionna, TensorFlow and Keras, and analyzing data with Pandas and other frameworks.
- 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)

## 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, re-*
- 02/2023 *motely*, 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](#))

## Computer Skills

- Coding Python, Sionna, R, Matlab, C, C++, L<sup>A</sup>T<sub>E</sub>X, Vivado HLS, Assembly language, Bash, Tensor-Flow, 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 Slack, GitHub, LinkedIn, Infojobs, Monday, Stack Overflow, Notion
- Platforms

## Languages

- Spanish Native
- English C1
- French B2-C1
- Catalan B2