

Jordi Corbalan Vilaplana

ID: 47597237W **Work permit:** Spanish **Nationality:** Spanish **Date of birth:** 07/02/2005

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ABOUT ME

Data Science and Engineering student driven by a strong passion for Deep Learning and Mathematical Optimization. Combining rigorous scientific training with advanced technical expertise, I bring an interdisciplinary perspective to complex problem-solving. I am deeply motivated by the challenge of translating theoretical research into scalable, real-world applications. I am seeking an opportunity to leverage my analytical skills in a dynamic, customer-obsessed environment, contributing to innovative Machine Learning solutions that drive large-scale impact.

WORK EXPERIENCE

Stanford University

Research Assistant

[12/2025 – Current]

- Developing **machine learning models** to predict **the risk of chronic diseases**.
- Working with **large-scale datasets** to identify key predictive **biomarkers**.

AstraZeneca – Warsaw, Poland

Name of unit or department: Precision Medicine and Biosamples

Project Management Data Science Intern

[07/2025 – 09/2025]

Designed and built a data-driven MVP for automated resource management in R&D workflows.

- Collected requirements from scientific and Project Manager stakeholders.
- Applied **Data Science techniques** and **mathematical modeling** to drive optimization, supported by **ETL data engineering** to establish scalable dataflows for complex data.
- Created **documentation** and **demos** for feedback and decision-making.
- Collaborated in a **global cross-functional environment** in the **Precision Medicine and Biosamples** team.

Private Tutor – Barcelona, Spain

(Self-employed)

[2021 – Current]

Private tutoring in **Mathematics, Physics, Chemistry, and Industrial Technology** at *Batxillerat* level.

- Development of **personalised lesson plans** and **study strategies** tailored to each student.
- Support with **exam preparation**, including **university entrance exams (PAU)**, and reinforcement of key concepts
- Adaptation of **teaching methods** to individual learning styles to improve performance and confidence.

EDUCATION AND TRAINING

Bachelor's degree in Data Science and Engineering

Universitat Politècnica de Catalunya [2023 – 2027]

City: Barcelona | Country: Spain | Website: https://dse.upc.edu/en?set_language=en | Field(s) of study: Data Science / Computer Science | Level in EQF: EQF level 6 | Type of credits: ECTS | Number of credits: 240

Relevant coursework:

- Machine Learning (Honors), Deep Learning
- Advanced Probability and Statistics (Honors)
- Time Series and Multivariate Analysis (Honors)
- Algorithmics and programming, Information Retrieval (Honors), Databases
- Discrete Mathematics and Graph Theory

Bachelor's degree in Pharmacy

Universitat de Barcelona [2024 – Current]

City: Barcelona | Country: Spain | Website: <https://web.ub.edu/en/web/estudis/w/bachelordegree-g1051> |

Field(s) of study: Health Sciences – Pharmacy | Level in EQF: EQF level 6

Relevant coursework:

- Inorganic and Organic Chemistry
- Pharmacy Applied Physics (Honors), Physical Chemistry(Honors)
- Cellular Biology
- Biostatistics
- Laboratory Work

Technological Baccalaureate (Batxillerat)

Salesians de Sarrià [2021 – 2023]

City: Barcelona | Country: Spain | Final grade: 9.76 / 10 – Honors: Second best in the cohort | Level in EQF: EQF level 4

LANGUAGE SKILLS

Mother tongue(s): Catalan

Other language(s):

Spanish

LISTENING C2 READING C2 WRITING C2

SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2

English

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SKILLS

Professional skills

Mathematical Modelling / Deep Learning / Machine Learning / Statistical modelling techniques / Product Data Management / Project Management / Problem solving with digital tools / Prototyping development / Data Warehousing / Negotiate with Stakeholders / Data Visualization

Technical / IT skills

Python (computer programming) / Pandas / Pytorch / Scikit-Learn / NetworkX / C++ / C / Spark / AWS / MATLAB / Git / Databases / MongoDB / SQL / ETL

Soft / interpersonal skills

Communication / Critical Analysis and Problem Solving / Team-work oriented / Analytical Thinking / Organizational and planning skills

DRIVING LICENCE

Driving Licence: B

LINKS AND MORE INFO

LinkedIn and Github Repository

Links: <https://www.linkedin.com/in/jordi-corbalan-vilaplana/> | <https://github.com/jordicorbalanvilaplana/projects>

HONOURS AND AWARDS

[10/2023] Generalitat de Catalunya

University Access Distinction University Access Score: 13.376 / 14

Universitat Politècnica de Catalunya

Courses with Honors in Data Science and Engineering Subjects:

- Advanced Probability and Statistics
- Machine Learning
- Multivariate Data Analysis and Time Series
- Parallelism and Distributed Systems
- Information Retrieval