

# Max Vilarasau Serra

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## Experience

### Bluecap Management Consulting

*Associate*

September 2025 – Current

*Madrid, Spain*

- Developing a risk-assessment strategy for a leading Spanish bank to estimate business loan default probability and optimize lending decisions
- Incorporating Machine Learning techniques to design the pre-delinquency algorithm

### Riedulab

*Analyst*

February 2023 – June 2023

*Barcelona, Spain (5 months)*

- Analyzed the soft skills of 1,496 adolescent students from Spanish and Portuguese schools

### VML

*Strategy Intern*

June 2022 – July 2022

*Barcelona, Spain (2 months)*

- Came up with a key idea for a successful zero-cost advertising campaign for a multinational

## Education

### Master of Science in Business Analytics – ICADE

Major in Machine Learning & Artificial Intelligence

October 2024 – July 2025

*Madrid, Spain (1 year)*

- Honors (3): [1] *AI & Reinforcement Learning* — [2] *Quantitative Finance* — [3] *Thesis*
- GPA: 8.8/10.0

### Bachelor in Global Studies & Management – Ramon Llull University

Major in Management & Digital Business

September 2020 – June 2024

*Barcelona, Spain (4 years)*

- Honor (1): [1] *Applied Statistics*

◦ GPA: 7.1/10.0

### Professional Degree in Classical Piano – Granados-Marshall Academy

◦ Studied under Pianist and Prof. Xavier Ricarte

September 2016 – June 2020

*Barcelona, Spain (4 years)*

## Achievements

### Awarded Best Thesis during my M.Sc. studies

July 2025

- Implemented Domain Randomization in Deep Reinforcement Learning for algorithmic trading, achieving higher returns by enhancing the model's generalization → [tinyurl.com/DR4DRL](https://tinyurl.com/DR4DRL)

*Madrid, Spain*

### Jiu-Jitsu Blue Belt under Robin Gracie

February 2024

- Jiu-Jitsu Blue Belt awarded by Robin Gracie, son of Hélio Gracie; founder of Brazilian Jiu-Jitsu

*Barcelona, Spain*

### Co-authored a Scientific Publication on a Q2 Journal

July 2023

- Investigated the role that Emotional Intelligence played in Anomalous Cognitions through Structural Equation Modeling → [doi.org/10.1016/j.explore.2023.07.008](https://doi.org/10.1016/j.explore.2023.07.008)

*Barcelona, Spain*

## Extracurricular Activities

### Board Member & Reviewer at 'Anomalistics'

October 2024 – June 2025

- Reviewed the quantitative procedures; ensuring statistical and methodological soundness

*Madrid, Spain (9 months)*

### Classical Pianist

July 2023

- Performed at the Isaac Albéniz Music Festival alongside other professional musicians

*Camprodon, Spain*

### Piano Teacher

September 2020 – June 2024

- Taught elementary level students and amateur musicians in Classical Piano

*Barcelona, Spain (4 years)*

## Skills, Languages & More

### Tech Skills

Python  
Linux/Unix  
Git  
LaTeX

### Industry Skills

Machine Learning  
Artificial Intelligence  
Excel & PowerPoint  
Econometric Analysis

### Languages

Spanish (native)  
English (native)  
Catalan (native)  
French (B2)

### Hobbies & Interests

Classical Music  
Classical Literature  
Watch Manufacturing  
Strategy Board Games

### Sports

Judo  
Jiu-Jitsu  
Wrestling  
Grappling