

## EDUCATION

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- **Massachusetts Institute of Technology (MIT)** Cambridge, United States  
*Master of Science - Artificial Intelligence and Computer Vision* September 2022 - Current
- **Universitat Politècnica de Catalunya (UPC)** Barcelona, Spain  
*Bachelor in Mathematics; 9.53/10 (rank 3)* 2017 - 2022
- **Universitat Politècnica de Catalunya (UPC)** Barcelona, Spain  
*Bachelor in Data Science and Engineering; 9.58/10 (rank 1)* 2017 - 2022

Degrees done concurrently as part of the CFIS-UPC (Centre de Formació Interdisciplinària Superior) program.

- **American School of Barcelona** Barcelona, Spain  
*International Baccalaureate (IB); 9.1/10 (41/45 points in the IB scale)* 2015 - 2017

## WORK EXPERIENCE

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- **Quantitative Trading Intern at Susquehanna International Group** Dublin, Ireland  
*Trading intern in the peripheral index options desk* June 2022-Aug 2022
- **Research Intern at Aspect Capital** London, England  
*Development of Systematic Macro Relative Value strategies* June 2021-Aug 2021
- **Collaborating Student at ZeClinics** Barcelona, Spain  
*Development of specialized image processing pipeline incorporating Deep Learning* January 2021-June 2021
- **Co-founder and researcher at Vixnio Technologies** Barcelona, Spain  
*Development and backtesting of deep learning models for quantitative trading* June 2020-May 2021
- **Research Student at Barcelona Supercomputing Center** Barcelona, Spain  
*Using recurrent neural nets (LSTM+AdaptiveLogSoftmax) for synthetic memory trace generation* July 2019-Sept 2019

## TECHNICAL SKILLS

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- Data processing and Machine Learning with Numpy, Pandas, and Scikit Python libraries
- Algorithms and Data Structures in C++
- Neural net design and implementation with the Pytorch Python library
- Distributed cluster computing with SLURM (e.g. multi-node distributed training)
- Data analysis with the R Statistical Computing Language: Familiarity with the R language and the R Studio environment, and its application to basic data processing, lm, glm, PCA, CA, and others.
- Numerical processing with Matlab
- Data processing with Excel

## AWARDS

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- **La Caixa Fellow 2022:** Awarded scholarship to pursue graduate studies in the US by the La Caixa foundation
- **Algothon 2021:** 1st place at the 2021 Algothon, organized by the Imperial College Algorithmic Trading Society and Aspect Capital
- **2021 Spain G-Research Quant-Trading Challenge.:** 1st place at the 2021 Spain G-Research Quant-Trading Challenge
- **HackUPC2019:** 2nd place at the McKinsey Challenge at the HackUPC2019 hackathon
- **CFIS double scholarship:** Academic-based full scholarship given to around 6 freshmen every year at UPC
- **Mathematics Olympiad:** Bronze medal at the 2017 Spanish Mathematical Olympiad

## NON-TECHNICAL SKILLS

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- **English:** Proficiency level (Michigan Test C2) and 118/120 on the TOEFL
  - **Written communication in English:** Extensive experience in communicating by writing in English; 7 years of schooling at the American School of Barcelona, and attending high school during one year in Los Altos, California.
  - **Oral communication in English:** Extensive experience in communicating orally in English; participation on the Mountain View debate club in California (oratory), as well as in the Los Altos Robotics Club (team communication).
- **Strong analytical skills and creative and rigorous thinking:** Ability to think creatively and rigorously when solving problems; trained by proving many mathematic theorems and propositions.
- **Time management:** Strong time management and self-scheduling skills.
- **Spanish and Catalan:** Native level in speaking and writing.