Adrián Rodríguez-Muñoz
LinkedIn : www.linkedin.com/in/adrian-rodriguez-munoz
Email : adrianrm@mit.edu

Education

- **Massachusetts Institute of Technology (MIT)** — Cambridge, United States
  Master of Science - Artificial Intelligence and Computer Vision — *September 2022 - Current*
- **Universitat Politecnica de Catalunya (UPC)** — Barcelona, Spain
  Bachelor in Mathematics; 9.53/10 (rank 3) — *2017 - 2022*
- **Universitat Politecnica 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 Interdisciplinaria Superior) program.

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

Work Experience

- **Quantiative 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

- **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

- **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

- **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.