Alex Martí Guiu

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EDUCATION

Swiss Federal Institute of Technology Zurich (ETH, Switzerland) — Zurich, Switzerland
MSc in Management, Technology, Economics, Minor in Data Science — September 2024 - Present
- Relevant Coursework: Corporate Sustainability, Empirical Methods, Operations Research, Production Operations Management, AI in Production Management, Business Analytics, Econometrics, NLP, Marketing Analytics, Pricing
- Average grade of **5.4/6**

École Polytechnique Fédérale de Lausanne (EPFL) — Lausanne, Switzerland
BSc Thesis, Research assistant @ LTS2 Lab — February 2022 - July 2022
- Research on: GNNs, Contrastive Learning, GANs
- Average grade of **5.5/6**

Technical University of Catalonia (UPC) — Barcelona, Spain
BSc in Data Science and Engineering (4 year program) — September 2018 - August 2022
- Relevant Coursework: Algorithms, Signals and Systems, Optimization, ML/Deep Learning, Computer Vision, Natural Language Processing, Advanced Databases, Probability & Statistics, Data Analysis, Discrete Mathematics.
- Average grade of **8.45/10**, with honours in Entrepreneurship and Innovation.

PROFESSIONAL EXPERIENCE

Mediapro (AutomaticTV) — Barcelona, Spain
Deep Learning Engineer — September 2022 - June 2024
- Implemented and optimized real-time ML models for object detection, tracking, action recognition and video summarization. Lead dataset labeling team, from design, hosting to technical implementation. (Python, PyTorch, CUDA, TensoRT, Pandas, SciPy, C++, AWS)

Radion Technology — Barcelona, Spain
AI Data Scientist Intern — September 2021 - February 2022
- Developed and improved real-time Machine Learning solutions. Integrated and tuned YOLO family models in RESTful pipelines (Python, Docker, FastAPI, Microsoft Azure, Object-Oriented Programming, Unit Testing).

SKILLS

- **Languages:** English (**C2**), French (**B1**), Spanish (Native), Catalan (Native)
- **Programming Languages:** Python, R, C++, SQL, MATLAB, JavaScript, SPSS, Stata, LaTeX
- **Big Data & Machine Learning:** Spark, AWS, PyTorch, NumPy, Pandas, SciPy, OpenCV, W&B, Hugging Face
- **Data Science & Miscellaneous Technologies:** A/B Testing, ETL, Data Mining, Visualization, Modeling, Interpretation, Time Series, Hypothesis Testing, APIs, Git, Jira, React, NextJS

AWARDS AND LEADERSHIP

Hackathon Winning Projects — *2025, 2020*
- 1st Place Datathon 2025 ETH (Orderfox Challenge)**:** Developed a Multi-Agent RAG chatbot to answer supply chain queries by combining semantic search (via a vector database built from Orderfox's web-scraped dataset) and exact keyword filtering (via a NoSQL store generated by an LLM agent). (OpenAI, ChromaDB, LangGraph, FastAPI, React)
- 1st Place BitsxLaMarató 2020: Created a telegram bot that classified Covid19 cough audios using DL (Pytorch) [repo].

Chosen Atendee at ICCV Paris 2023 — *2023*
- Attended ICCV in representation of Mediapro to discuss our SOTA object tracking methods with industry leaders.

Video & Image Segmentation for a Pharmaceutical Lab — *2021*
- Segmented videos and images of zebrafish larvae's hearts, with metric extraction and drug toxity classification. Developed business model for the product (Image Processing, Deep Learning, Agile)

Spotify Explicit Content Predictor — 2020
- Developed an R based application that was able to extract any song's Spotify Track Features and predict whether it would have explicit content or not. Logistic Regression and MLPs. (R, OpenRefine, API) [Link]

PASSIONS

- **Sports:** Former competitive field hockey player (Spanish league), Currently Basketball and Triathlon.
- **Coaching:** Hockey coach for 6 yrs (kids 10-18y y/o). Developed leadership and communication skills
- **Teaching:** Private teacher of Math and Sciences
- **Big fan of:** Music (piano), NBA, Soccer, Journalism, Neuroscience, Chess
- **Culture**: Really attracted by other cultures and countries, really enjoy traveling.