

# Alberto Maté

✉ albertomate44@gmail.com

🌐 Personal Website

in alberto-mate-angulo

🔄 alberto-mate

## Experience

### CVML, National University of Singapore (NUS), Research Intern

Singapore, Singapore  
Sep 2024 – Present

- Master's Thesis intern at the Computer Vision & Machine Learning (CVML) lab under the supervision of Guodong Ding and Angela Yao.
- Submitted a paper to ICCV2025 conference (under review) in the topic of "Semi-supervised learning for video moment retrieval" showing how with only 10% labeled data, our method can achieve 85% of performance compared with fully-supervised methods.

### Institut de Robòtica i Informàtica industrial (IRI, CSIC-UPC), AI Research Engineer

Barcelona, Spain  
Nov. 2023 – Aug. 2024

- Research in "Long-term action anticipation in untrimmed videos" supervised by Mariella Dimiccoli.
- Developed a novel encoder-decoder framework introducing a bidirectional action context regularizer and a transition matrix improving previous state-of-the-art methods. Paper submitted to IJCV (under review) [[Paper](#)].

### Dive.tech, Data Scientist

Madrid, Spain  
Feb. 2023 – Aug. 2023

- Led AI development for a client project involving multi-camera, multi-target tracking, ensuring safety by detecting zone transgressions in an electric substation.
- Optimized YoloV7 for real-time CPU inference using OpenVINO, quantization, and pruning, improving FPS from 5.2 to 33.7 while maintaining accuracy.

### Dive.tech, Data Scientist Intern

Madrid, Spain  
Sep. 2022 – Feb. 2023

- Developed internal MLOps tools for deployment, monitoring, and experimentation, enhancing operational efficiency.
- Developed an internal annotation tool from scratch using React JS.

## Education

### Universitat Politècnica de Catalunya (UPC), MSc in Artificial Intelligence (GPA: 8.9/10)

Barcelona, Spain  
Sep 2023 – Present

- Relevant coursework: Natural Language Processing (NLP), Computer Vision (CV), Deep Learning (DL), Reinforcement Learning (RL)

### Universidad Carlos III de Madrid, BSc in Computer Engineering (GPA: 8.7/10)

Madrid, Spain  
Sep 2019 – July 2023

- Honourous in 8 courses: Linear Algebra, Algorithms and data structures, Automata and formal language theory, among others.
- Bachelor's Thesis: "Applications of Deep Reinforcement Learning in autonomous cars" (9.1/10). The GitHub project currently has +80 stars and +10 forks. [[Project](#)]

### University of Sydney (USYD), Excellence Non-European Exchange Program in Computer Engineering

Sydney, Australia  
2022

- Obtained High Distinction (HD) in COMP3308: Introduction to Artificial Intelligence

## Publications

**Alberto Maté**, Mariella Dimiccoli. "Temporal Context Consistency Above All: Enhancing Long-Term Anticipation by Learning and Enforcing Temporal Constraints" *ArXiv* 2024

[Paper](#)

## Personal Projects

### Explore AI | React Native (Expo 52), PostgreSQL, NativeWind, Zustand, OpenAI API, Wikipedia API.

[GitHub](#)

- Developed a native mobile app that uses real-time location data and AI-powered descriptions to guide users in discovering city landmarks.

### Challenge Habits | Next.js 14, Tailwind, Supabase, Vercel

[Web App](#)

- Built and deployed a social habit-tracking app, enabling users to challenge friends, set weekly habits, and compete for EXP points based on consistency.

## Skills

**Programming languages:** Python, C++, React, PostgreSQL, ...

**Languages:** Spanish (Native), English (C1 certificate)

**Frameworks:** PyTorch/PyTorch Lightning, W&B, MLFlow

**Soft skills:** Proactivity, Hard-working, Adaptability

## Awards

3x Excellence Scholarships, Community of Madrid: 2019, 2020, 2021  
Tuition Fee Scholarship, SEIDOR: 2023-2024