Zhihao Chen

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Education

Polytechnic University of Catalonia (UPC), Artificial Intelligence — Barcelona, Spain — Sept 2022 – June 2026
- GPA: 8.9/10
- 4 courses with academic distinction

Federal Polytechnic School of Lausanne (EPFL), Computer Science — Lausanne, Switzerland — Sept 2025 – Feb 2026
- Exchange semester as part of BSc program

Experience

LAMP - CVC - UAB, Research Fellow — Barcelona, Spain — Feb 2026 – present — 1 month
Unified Multi-Modal Continual Learning
- Investigating catastrophic forgetting and cross-modal interference in Unified Multi-Modal LLMs.
- Developing a comprehensive benchmark suite to evaluate model performance on sequential tasks.

IRI - UPC, Undergraduate Researcher — Barcelona, Spain — Feb 2026 – present — 1 month
Future Action Prediction in Video Models
- Investigating modern state-space architectures (e.g., Mamba) for modeling long-range temporal dependencies in future action prediction from video.

BioRob - EPFL, Visiting Research Student — Lausanne, Switzerland — Sept 2025 – Feb 2026 — 6 months
Context-Aware Spatial Action Recognition
- Developed a context-aware interaction framework (based on SkateFormer) to resolve spatial user intent in multi-robot scenarios.
- Proposed an Implicitly Guided Geometric Fusion strategy for robust generalization to unseen/occluded layouts.
- Curated a 10k-sample dataset and deployed the pipeline on a ROS2-based mobile swarm with 25ms latency.

PayRetailers, AI Engineer Intern — Barcelona, Spain — June 2025 – Aug 2025 — 3 months
Multi-Agent Systems and LLM Analysis
- Developed and analyzed AI agents using advanced context engineering.
- Designed complex multi-agent workflows through n8n, documenting emergent behaviors.
- Built B2B products including pricing calculators, RAG chatbots, and report generators.

Awards

Overall Finalist, LauzHack 2025 — EPFL, Switzerland — Nov 2025
Overall finalist at the EPFL hackathon

First Prize, MERIThon 2025 AI Challenge — Jan 2025
First place in the AI competition track

Academic Honors — UPC — June 2024
4 courses with distinction

UB-Santander Award — June 2022
Award for outstanding Baccalaureate Research project

Skills

Programming: Python, C, SQL, MATLAB, R, C++, PDDL, Prolog

ML & Data: PyTorch, TensorFlow, Scikit-Learn, Hugging Face, LangChain, n8n, MLflow, WandB

Systems: Jupyter, LaTeX, Git/GitHub, Docker, SLURM

Languages

Chinese: Native proficiency

Spanish: Native proficiency

English: Professional proficiency (C1)

Catalan: Professional proficiency (C1)

Interests

Representation Learning

Multi-Modal LLMs

Continual Learning

Emergent Intelligence

World Models

Embodied AI