

Zhihao Chen

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Education

Polytechnic University of Catalonia (UPC), Artificial Intelligence

- GPA: 8.9/10

Barcelona, Spain

Sept 2022 – June 2026

Federal Polytechnic School of Lausanne (EPFL), Computer Science

- Exchange semester as part of BSc program

Lausanne, Switzerland

Sept 2025 – Feb 2026

Experience

IRI - UPC, Undergraduate Researcher

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.

Barcelona, Spain

Feb 2026 – present

1 month

BioRob - EPFL, Visiting Research Student

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.

Lausanne, Switzerland

Sept 2025 – Feb 2026

6 months

PayRetailers, AI Engineer Intern

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.

Barcelona, Spain

June 2025 – Aug 2025

3 months

Skills

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

Frameworks & Libraries: PyTorch, TensorFlow, Scikit-Learn, Hugging Face, LangChain, Lightning

Tools & Platforms: Git, Docker, SLURM, WandB, MLflow, Linux/Bash, LaTeX

Languages

Chinese: Native proficiency

Spanish: Native proficiency

English: Professional proficiency (C1)

Catalan: Professional proficiency (C1)