

Zhihao Chen

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Education

Polytechnic University of Catalonia (UPC) , Artificial Intelligence	Barcelona, Spain
• GPA: 8.9/10	Sept 2022 – June 2026
Federal Polytechnic School of Lausanne (EPFL) , Computer Science	Lausanne, Switzerland
• Exchange semester as part of BSc program	Sept 2025 – Feb 2026

Experience

IRI - UPC , Undergraduate Researcher	Barcelona, Spain
Future Action Prediction in Video Models	Feb 2026 – present
• Investigating modern state-space architectures (e.g., Mamba) for modeling long-range temporal dependencies in future action prediction from video.	1 month
BioRob - EPFL , Visiting Research Student	Lausanne, Switzerland
Context-Aware Spatial Action Recognition	Sept 2025 – Feb 2026
• Developed a context-aware interaction framework (based on SkateFormer) to resolve spatial user intent in multi-robot scenarios.	6 months
• 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
Multi-Agent Systems and LLM Analysis	June 2025 – Aug 2025
• Developed and analyzed AI agents using advanced context engineering.	3 months
• Designed complex multi-agent workflows through n8n, documenting emergent behaviors.	
• Built B2B products including pricing calculators, RAG chatbots, and report generators.	

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)