

SHIFANG ZHAO

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<https://zzsf11.github.io/>

EDUCATION

Master <i>Information and Communication Engineering</i> Beijing Jiaotong University Supervised by Prof. Yunchao Wei	Sep. 2023 – Jul. 2026 Beijing, China
Bachelor <i>Automation Engineering</i> GPA:3.74/4 Beijing University of Technology	Sep. 2019 – Jul. 2023 Beijing, China

PUBULICATION

CutClaw: Agentic Hours-Long Video Editing via Music Synchronization (960+ Stars) S. Zhao , Y. Hu, Y. Shan, Y. Wei, X. Cun <i>Arxiv</i>	
OmniAD: Detect and Understand Industrial Anomaly via Multimodal Reasoning S. Zhao , Y. Lin, L. Han, Y. Zhao, Y. Wei <i>ACMMM 2026</i>	
Rethinking Data Imbalance in Class Incremental Surgical Instrument Segmentation S. Zhao , L. Bai, K. Yuan, F. Li, J. Yu, W. Dong, G. Wang, M. Islam, N. Padoy, N. Navab, H. Ren <i>Medical Image Analysis</i>	
AlignGen: Boosting Personalized Image Generation with Cross-Modality Prior Alignment Y. Lin*, S. Zhao* , T. Liu, X. Qu, L. Liu, Y. Zhao, Y. Wei <i>arXiv</i>	
From Seeing to Knowing the World: A Survey of Vision World Models X. Yu, Y. Zhang, M. Wang, S. Zhao , W. Liu, Y. Yin, Z. Ren, N. An, X. Wu, H. Liu, H. Peng, Y. Zhao, J. Yang, J. Feng, S. Yan, Y. Wei, X. Jin <i>arXiv</i>	
StateFlow: Building, Evolving, and Accessing 3D World States for Previsualization Y. Yin, Z. Li, L. Deng, H. Li, S. Zhao , J. Liu, W. Huang, M. Wang, T. Fu, Y. Wang, P. Wang, X. Jin, Y. Zhao, Y. Wei <i>arXiv</i>	

PROJECTS AND RESEARCH

Coding Agent for autonomous character in 3D Game(In preparation for ICLR 2027) Great Bay University	Apr. 2026 - Now
Engineered an autonomous system for NPCs using Coding Agent for long-term goal reasoning and real-time code generation. Implemented complex task decomposition and memory streams to achieve consistent, logic-driven character behavior in dynamic environments.	

INTERN EXPERIENCE

Research Intern Chinese University of Hong Kong	Fall 2024 Mentor: Prof. Hongliang Ren & Long Bai
Visiting Student Great Bay University	Fall 2025 Mentor: Prof. Xiaodong Cun
Research Intern ChatCut	Spring 2026

HONORS AND AWARDS

The First Prize Scholarship	2020 2021 2023 2025
Recognition for to 10% of students in academics	
24th China Robot and Artificial Intelligence Competition National First Prize	Aug. 2022
Project: Automatic Ping-Pong Ball Collection Robot Design	