

ZHIYAN LI

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EDUCATION

B.S in Computer Science, ACM Honer Class Zhiyuan College, an elite research-oriented CS program of top 5% students, Shanghai Jiao Tong University, China	Sep.2023 - June. 2027(Expected)
Selected Courses: Data Science: 98 , Information Theory: 95 , Large Language Models: 94 , Compiler Project: 94 , Introduction to Physics II(Honors): 92 , Machine Learning: 92	

RESEARCH EXPERIENCE AND PUBLICATION

Research Assistant, MVIG-RHOS Lab <i>co-advised by Prof. Cewu Lu and Prof. Yonglu Li</i> Topics: Multimodal Perception, Robot Learning	June 2025 - Present
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TactiLDM for VLA: Learning Unified Visual-Text-Tactile Representations to Empower Vision-Language-Action Policies <i>Zhiyan Li*, Hantao Jiang*</i>	Nov 2025 - Jan 2026
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- Accepted by ISAI 2026
- Design a tactile encoder in Latent Diffusion Model(LDM) Framework
- Achieve $\approx 20\%$ improvement in linear probing downstream task
- Achieve **4x** in success rate when integrated the encoder to π_0 VLA model

PROJECTS

Decoformer <i>Python, Core Researcher</i>	May 2025
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- Proposed a novel architecture by integrating DLinear into CrossFormer (ICLR 2023)
- Achieve **20% higher accuracy** on long-term forecasting and **1.25x faster inference**

A2A-cpp SDK <i>C++, Collaborated with Huawei 2012 Lab</i>	Oct 2025 - Dec 2025
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- Developed a low-latency C++ SDK for inter-agent messaging

MxCompiler <i>Java, Core Researcher</i>	Oct 2024
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- Implemented a full-featured compiler supporting semantic analysis, RISC-V code generation, and optimizations including **Mem2Reg**, **DCE**, **SCCP**, and **Global-to-Local variable promotion**

RISCV-CPU <i>Verilog, Core Researcher</i>	Oct 2024
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- Designed a 5-stage pipelined RV32IC CPU with out-of-order execution support via **Tomasulo's algorithm**
- Validated functionality through FPGA deployment and extensive simulation

HONORS AND AWARDS

- **Foresight-Sequoia Talent Development Fund**

Award for 5 Excellent Students in ACM Class

Nov 2025

- **Zhiyuan Honors Scholarship** Recognition for top 5% of students in SJTU annually Fall 2023, 2024, 2025
- **Shanghai Jiao Tong University Merit Scholarship** Nov 2025
- **Software Star of 2025 Huawei Hackathon Competition** Oct 2025
- **39th Chinese Physics Olympiad, Silver Medal(National Prize)** top 5% of overall high school participants Nov 2022
- **China Undergraduate Mathematical Contest in Modeling, Provincial Second Prize** Dec 2024
- **The Chinese Mathematics Competition, Provincial Second Prize** Dec 2024

TEACHING EXPERIENCE

- Data Structure(Honors), Teaching Assistant Spring 2025
- Principle and Practice of Computer Algorithms, Teaching Assistant Summer 2025

SKILLS AND INTERESTS

Languages	English (Fair, CET6: 610, got Excellent in Speaking), Mandarin Chinese(Native)
Programming	Python, MATLAB, C++, Java, Verilog
Tools	L ^A T _E X, Markdown, Git, ROS1/2 System