

# ZHIYAN LI

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## EDUCATION

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### B.S in Computer Science, ACM Honer Class

Sep.2023 - June. 2027(Expected)

Zhiyuan College, an elite research-oriented CS program of top 5% students,  
Shanghai Jiao Tong University, China

#### Selected Courses:

Computer Vision: **100**, 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

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### Research Assistant, Harvard Embodied Mind Lab

Present

*advised by Prof. Yilun Du*

Topics: Lifelong learning for robots

### Research Assistant, MVIG-RHOS Lab

June 2025 - Present

*co-advised by Prof. Cewu Lu and Prof. Yonglu Li*

Topics: Multimodal Perception, Generalization in Robot Learning

### TactiLDM for VLA: Learning Unified Visual-Text-Tactile Representations to Empower Vision-Language-Action Policies

Nov 2025 - Jan 2026

*Zhiyan Li\**, *Hantao Jiang\**

- 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  $\pi_0$  VLA model

## PROJECTS

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### Decoformer

May 2025

*Python, Core Researcher*

- Proposed a novel architecture by integrating DLinear into CrossFormer (ICLR 2023)
- Achieve **20% higher accuracy** on long-term forecasting and **1.25x faster inference**

### MxCompiler

Oct 2024

*Java, Core Researcher*

- 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

Oct 2024

*Verilog, Core Researcher*

- 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

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### • 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
- **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

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

## SKILLS AND INTERESTS

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