

Yufu Dong

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EDUCATION

Nankai University

B.Eng. in Intelligence Science and Technology (in progress)

Sept. 2023 - Jun. 2027

- **GPA:** 3.64/4.0; **Rank:** 33/166 (top 19.8%); **English:** CET-4 580, CET-6 525.
- **Relevant Courses:** Machine Learning (4.0), Deep Learning (4.0), Machine Vision (4.0), Principles of Automatic Control (4.0), Modern Control Theory (4.0), Artificial Intelligence Technology (4.0), Digital Electronics (4.0).
- **Self-study:** MIT 6.S978 Deep Generative Models, MIT 6.S184, UC Berkeley CS285, and Mathematical Principles in Reinforcement Learning (Westlake University); notes are maintained on my personal website.
- **Research Interests:** Embodied intelligence, robotic manipulation learning, VLA models, world models, generative policy learning, and multimodal perception-control.

RESEARCH EXPERIENCE AND PROJECTS

Imitation and Reinforcement Learning with Force Feedback for Precision Robotic Grasping

Mar. 2025 - Mar. 2026

Project Lead, Nankai Hundred Projects Undergraduate Research Program

- Studied force-feedback control for precision grasping by combining imitation learning and reinforcement learning, aiming to improve real-world latency, stability, and generalization in contact-rich manipulation.
- Analyzed the inference bottleneck of MeanFlow-style generative action policies under high-frequency control and explored one-step action generation to reduce latency; project funded by Nankai University and closed with an excellent evaluation. Code: github.com/DeepforThink/imeanflow-robot-arm.

Home-Service Robot System

Mar. 2025 - May 2025

Project Lead

- Built a ROS/TurtleBot-based service robot integrating speech interaction, navigation, obstacle avoidance, visual recognition, and robotic-arm grasping for home-service scenarios.
- Implemented MoveBase navigation and static-map construction, trained and deployed YOLOv5 object recognition on a self-labeled household-object dataset, and designed the ROS communication architecture connecting speech, perception, navigation, and execution.

Long-Horizon VLA Evaluation on CALVIN ABC→D

May 2026

Project Member

- Participated in StarVLA-based training and evaluation for CALVIN ABC→D cross-environment generalization; organized training schemes, evaluation metrics, and failure-pattern analysis.
- Designed LIBERO data augmentation with action-consistent weak visual augmentation and language paraphrasing, and conducted failure-aware finetuning from CALVIN ABC Eval logs through high-failure task resampling, failure-prefix augmentation, and task-level reweighting.

VLA and Generative Policy Reading and Reproduction

2024 - Present

Independent Research Preparation

- Systematically studied PI-series VLA papers and reproduced representative manipulation policies, including ACT, Diffusion Policy, and PI/OpenPI, on a small robotic-arm platform using open-source implementations.

AWARDS

National Third Prize, RoboCup China 2025, RoboCup@Home League (Team Lead)

2025

Nankai Gongneng Scholarship, First-Class University Comprehensive Award (Top 5%)

2024 - 2025

Nankai University Merit Student

2024 - 2025

Provincial Second Prize, China Undergraduate Mathematical Contest in Modeling

2025

ADDITIONAL EXPERIENCE

Rovren America

Sept. 2024 - Oct. 2024

Technical Communication Intern

- Participated in technical communication and coordination for a computer-vision education platform.

SKILLS

Programming and ML Python, C++, PyTorch, Hugging Face, Linux/WSL2

Robotics and Vision ROS, OpenCV, YOLOv5, ACT, Diffusion Policy, PI/OpenPI, manipulation policy reproduction

Research Practice literature review, baseline reproduction, experiment logging, failure-case analysis, technical writing