JiBao Yuan

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Education

National University of Defense Technology, M.Eng. in Electronic Information — 2025 – Present
Advised by Assoc. Prof. **Shaofei Chen**

South China Normal University, B.Eng. in Artificial Intelligence — 2021 – 2025
GPA: 3.90 / 5.00, Rank: 5 / 97

Experience

Knowledge Graph-Based Multimodal Anti-Fraud System, *Core Contributor* — 2023 – 2025
School of Artificial Intelligence, South China Normal University

- Built a multimodal anti-fraud system integrating knowledge-graph reasoning, information extraction, and user profiling for fraud detection and risk analysis.
- Developed a modular pipeline to construct fraud knowledge graphs from heterogeneous case data and perform reasoning over entities, relationships, and behavioral patterns.
- Completed a National Innovation Training Project (rated Good, May 2023) and a Guangdong Provincial "Climbing Plan" project (Oct. 2025); co-invented patent application CN119646324A (Mar. 2025).

Summer Future Innovation Program, *Participant* — Jul. 18 – 20, 2023
School of Biomedical Engineering, University of Science and Technology of China

Publications

GraRe: Grasp Candidate Re-Ranking for Frozen 6-DoF Grasp Detectors — Aug. 2026
Jibao Yuan, Yuhui Zhao, Yinzhen Lv, Chao Xu, Shun Li, Chenxi Deng, Shaofei Chen
arXiv preprint

Construction and Study of an Explainable Logical Reasoning Dataset — Feb. 2025
Yu Xiao, Jing Xiao, Guijin Lin, Rongsen Ni, Jiarong Xian, **Jibao Yuan**
Journal of Computer Engineering & Applications, vol. 61, no. 4, p. 114

BERT-Enhanced Retrieval Tool for Homework Plagiarism Detection System — Apr. 2024
Jiarong Xian*, **Jibao Yuan***, Peiwei Zheng*, Dexian Chen*, Yuntao Nie
arXiv preprint

Projects

Minakanmi-Yuki/GraRe, *Core Maintainer*
Plug-and-play grasp candidate re-ranking for frozen 6-DoF grasp detectors on GraspNet-1Billion.

Ar1haraNaN7mI/RainyXscientist, *Contributor*
End-to-end AI-assisted research execution platform with multi-agent workflows, CLI/TUI interfaces, MCP integrations, and persistent session memory.

Ar1haraNaN7mI/ReverbNet, *Contributor*
Modular deep learning architecture with gated role–processor routing, variational encoding, and recurrent feedback for dynamic feature fusion.

Ar1haraNaN7mI/AI-Streamer-Phy, *Contributor*
AI virtual human system integrating Qwen-based dialogue, GPT-SoVITS speech synthesis, and Live2D-driven real-time voice interaction.

Awards

National First Prize, RAICOM Robotics Developer Competition — Aug. 2024

National Second Prize, Lanqiao Cup Software Design Competition — Jun. 2024
National Third Prize, Huawei ICT Competition — Apr. 2023
National Third Prize $\times 2$, CCCC Programming Ladder Tournament — 2023 – 2024
Honorable Mention $\times 3$, MCM/ICM — 2022 – 2024
Excellence Award, SCNU Innovation Scholarship — Apr. 2023
Second-Class Qidian Scholarship, NUDT — Oct. 2025
SCNU Comprehensive Scholarship: Second-Class $\times 3$, Third-Class $\times 1$ — 2022 – 2025

Interests

- **Embodied AI:** Robotic manipulation, with an interest in enabling agents to perceive complex physical environments and execute precise interactions.
- **Multi-Agent Systems:** Multi-Agent Reinforcement Learning (MARL), particularly value decomposition and policy-based methods for coordinated decision-making.
- **Multimodal Learning:** Computer vision and natural language processing, with a focus on Vision-Language Models (VLMs) for cross-modal understanding and reasoning.

Skills

Programming: Python, C, C++, Node.js

Development Tools: VS Code, GNU Bash, Markdown, Git, Vim

Libraries / Frameworks: OpenCV, Open3D, PyTorch, TensorFlow, ROS, Isaac Lab, Hugging Face

Certifications: CET-4 (489), CET-6 (423), CCF CSP (410)

Miscellaneous

Reinforcement Learning Notes: Self-maintained technical notes on reinforcement learning.
Embodied AI Paper Reading Notes: Reading notes and summaries of embodied AI literature.