

HAOLIN YANG

Beijing, China

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EDUCATION

B.S. in Intelligent Science and Technology

Sept. 2023 – Present

Peking University, School of Intelligent Science and Technology, Beijing, China

GPA: 3.6+/4.0

Selected Coursework: Advanced Calculus A, Linear Algebra A, Data Structures and Algorithms A, Programming Practice, Foundations of Artificial Intelligence, Computer Vision, Programming in AI, Introduction to Machine Learning, Reinforcement Learning, Multimodal Learning

RESEARCH EXPERIENCE

NavSpace: How Intelligent Agents Follow Spatial Intelligence Instructions Jan. 2025 – Sept. 2025
Co-first Author: Haolin Yang, Yuxing Long*; with Zhuoyuan Yu, Zihan Yang, Minghan Wang, Jiapeng Xu, Yihan Wang, Ziyang Yu, Wenzhe Cai, Lei Kang, and Prof. Hao Dong* Beijing, China

- Developed **NavSpace**, the first benchmark evaluating six core spatial intelligence abilities for embodied navigation.
- Built the full data-collection and evaluation pipeline, supporting systematic benchmarking of 22 mainstream VLA/VLM models.
- Fine-tuned LLaVA-7B to develop **SNav**, a strong baseline achieving state-of-the-art performance across all six NavSpace dimensions.
- Co-first author of the ICRA 2026 submission; preprint: *NavSpace: How Intelligent Agents Follow Spatial Intelligence Instructions* (arXiv:2510.08173).

INDUSTRY EXPERIENCE

Beijing Zhipu Huazhang Technology Co., Ltd. (Zhipu AI)

Aug. 2025 – Sept. 2025

AI Application Engineer Intern

Beijing, China

- Built production-ready backend services integrating Zhipu GLM APIs through Flask and asynchronous pipelines.
- Led the end-to-end development of two systems: **(1)** a Singapore visa review assistant and **(2)** a multilingual mobile assistant (Chinese–English–Arabic).
- Optimized data flow, caching, and prompt routing, reducing visa review processing time by **70%+**.
- Delivered stable model-serving pipelines in collaboration with product, model, and sales teams, gaining collaborative AI deployment experience.

ZhiYuan Robotics Co., Ltd.

Jan. 2025 – Jul. 2025

PKU Joint Laboratory Research Intern

Beijing, China

- Developed a VLM-based navigation evaluation framework on the **Habitat** platform, enabling large-scale embodied AI testing.
- Built a **Flask-based** data collection and interaction system supporting high-throughput human–agent evaluation.
- Analyzed VLA/VLM generalization and identified **two key limitations** in current closed-source models (GPT, Gemini).
- Created a complete embodied navigation evaluation pipeline now used as core infrastructure for ongoing lab research.

HONORS AND AWARDS

Shenzhen Stock Exchange Scholarship, Peking University

Sept. 2023 – Jul. 2024

Outstanding Research Award, Peking University	Sept. 2023 – Jul. 2024
Huawei Scholarship, Peking University	Sept. 2024 – Jul. 2025
Outstanding Research Award, Peking University	Sept. 2024 – Jul. 2025

TECHNICAL SKILLS

Research Interests	Embodied AI, Multimodal Large Language Model
Programming	C++, Python, Javascript, CSS, HTML
Frameworks / Libraries	PyTorch, scikit-learn, OpenCV, Flask, Habitat-Sim, Habitat-Lab
Systems & Tools	Ubuntu/Linux, Git, CUDA (basic)
Languages	TOEFL 114/120 (R 30, L 30, S 27, W 27) CET-4 600+, CET-6 590+

RESEARCH INTERESTS

I devoted into Embodied AI, vision-language(-action) models (VLM/VLLM), and multimodal foundation models. My research goal is to reduce the Sim2Real gap for embodied agents through stronger spatial reasoning, multimodal perception, and generalizable policy learning. I believe by advancing the integration of large multimodal models with embodied systems, we are able to build more robust, intelligent, and deployable real-world agents. My ultimate goal is to promote forward-looking embodied intelligence research and bridging the gap between academic innovations and practical deployment in robotics.