Yiyang Jia

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Research

I study continual learning in humanoid robots: how a robot can acquire new skills without forgetting earlier ones, and recognise when a familiar skill can be reused without an explicit task boundary.

Education

PhD in Computer Science 2026 to present
University College London

MSc in Robotics and AI, Distinction 2025
University College London

BEng in Robot Engineering 2020 to 2024
University of Electronic Science and Technology of China

Research and teaching experience

Postgraduate Teaching Assistant, University College London 2026/27
COMP0205: Mechatronics and Making. Supported practical labs and tutorials.

Research Intern, Institute of Automation, Chinese Academy of Sciences 2025 to 2026
Worked on embodied intelligence, including the safety of vision-language-action policies.

Selected publications

Self-motivated growing neural network for adaptive architecture via local structural plasticity
Yiyang Jia and Chengxu Zhou. *Neurocomputing*, 2026, volume 702, article 134581.

ForesightSafety-VLA: A Unified Diagnostic Safety Benchmark for Vision-Language-Action Models
Mingyang Lyu, Yinqian Sun, **Yiyang Jia**, Sicheng Shen, Moquan Sha, Huangrui Li, Feifei Zhao and Yi Zeng. *IROS*, 2026.

Preprints

TRACE: Target-State Risk-Aligned Conditional Execution for Embodied Tracking
Mingyang Lyu, Gongce Cao, **Yiyang Jia**, Lu Jia, Erliang Lin, Yuhao Zhang, Yinqian Sun, Pin Lyu, Feifei Zhao and Bo Wang. arXiv:2610.41275 · October 2026.

Beyond Kinematic Tracking: Preserving Expressive Characteristics in Humanoid Whole-Body Control
Lingfan Bao, Hanshang Zhu, Yan Pan, Jincheng Wang, Jingyang Yu, Tianhu Peng, **Yiyang Jia**, Dimitrios Kanoulas and Chengxu Zhou. arXiv:2610.19393 · October 2026.

Selected award

National Scholarship, University of Electronic Science and Technology of China (2021).