Jiawei Gao Ph.D. Applicant

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Education

2025(Expected) | *2020* **Department of Automation, Tsinghua University** | Beijing, P.R.China.
B.Eng in Control and Automation

- Minor in Statistics.
- Member of the "Tong Class", an AGI program founded by Prof. Songchun Zhu.

Publications

G Google Scholar
† → Equal Contribution

In Submission **ASAP: Aligning Simulation and Real-World Physics for Learning Agile Humanoid Whole-Body Skills.**

Tairan He†, Jiawei Gao†, Wenli Xiao†, Yuanhang Zhang†, Zi Wang, Jiashun Wang, Zhengyi Luo, Guanqi He, Nikhil Sobanbab, Chaoyi Pan, Zeji Yi, Guannan Qu, Kris Kitani, Jessica Hodgins, Linxi "Jim" Fan, Yuke Zhu, Changliu Liu, Guanya Shi.
In submission.
Website, Paper.

NeurIPS 24 (Spotlight) **CooHOI: Learning Cooperative Human-Object Interaction with Manipulated Object Dynamics.**

Jiawei Gao†, Ziqin Wang†, Zeqi Xiao, Jingbo Wang, Tai Wang, Jinkun Cao, Xiaolin Hu, Si Liu, Jifeng Dai, Jiangmiao Pang.
Conference on Neural Information Processing Systems, 2024.
Website, Paper.

ICLR 24 **Hybrid Internal Model: Learning Agile Legged Locomotion with Simulated Robot Response.**

Junfeng Long†, Zirui Wang†, Quanyi Li, Jiawei Gao, Liu Cao, Jiangmiao Pang.
International Conference on Learning Representations, 2024.
Website, Paper.

NeurIPS 23 (Spotlight) **Train Once, Get a Family: State-Adaptive Balances for Offline-to-Online Reinforcement Learning.**

Shenzhi Wang†, Qisen Yang†, Jiawei Gao, Matthieu Lin, Hao Chen, Liwei Wu, Ning Jia, Shiji Song, Gao Huang.
Conference on Neural Information Processing Systems, 2023.
Website, Paper.

Experiences

2025.02 | *2024.07* **LeCAR Lab, Carnegie Mellon University** | Pittsburgh, U.S.A.
Research Intern

- Research Advisor: Prof. Guanya Shi.
- Developed algorithms and systems for whole-body control of humanoid robots.
- Currently working on a project with plans to submit to RSS 2025.

Last updated at: 8 March, 2025

2024.05 | *2023.07* **OpenRobot Lab, Shanghai AI Laboratory** | Shanghai, P.R.China.

Research Intern

- Advisor: Dr. Jiangmiao Pang.
- Developed algorithms for physics-based humanoid charactor animation.
- Developed algorithms for quadruped locomotion on various terrains.
- Published two conference papers: one accepted at ICLR 2024 and another accepted as a Spotlight at NeurIPS 2024.

Projects

2024.06 **OpenDA Project: An Open-Source Platform for Coursework and Experiences for Tsinghua University Undergrads.**

Team Leader

- Project Website.
- A platform and forum for sharing notes, experiences, insights, and advice from the courses for undergrads in Tsinghua University.
- Designed to help bridge the "information gap" in undergraduate studies and promote greater educational equity.

Awards & Honors

2023.09 **Academic Excellence Scholarship** | Tsinghua University.

2023.09 **Outstanding Scientific and Technological Innovation Scholarship** | Tsinghua University.

Academic Services

2024 **Conference Reviewers**: ICLR 2025, ICML 2025.

2024 **Conference Reviewers**: ICLR 2024 Workshop, ECCV 2024, NeurIPS 2024.

Skills

Languages Chinese, English, German.

Tools Figma, Final Cut Pro, Adobe Lightroom.

Programming `Python, C/C++, MATLAB, LaTeX.`

Frameworks `PyTorch, ROS, Flask, Anaconda, Git.`

Platforms Unitree A1, Unitree Go2, Unitree G1, Unitree H1, Fourier GR1.

Miscellaneous Photography, Piano.