

ZIFAN WANG

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[Github](#)

[Google Scholar](#)



EDUCATION

The Hong Kong University of Science and Technology, Guangzhou Campus 09/2024- 06/2027

Major: Phd in Artificial Intelligence Supervisor: [Junwei Liang](#) GPA:N/A

The Hong Kong University of Science and Technology, Guangzhou Campus 09/2022- 06/2024

Major: Master in Robotics and Autonomous System Supervisor: [Ming Liu](#), [Jun Ma](#) GPA: 3.84

Southwest Jiao Tong University, The School of Information Science and Technology 09/2017- 06/2021

Major: Bachelor in Automation Engineering Average Score: 85.45

Honors & Awards:

- First Class Scholarship
- The Enterprise Scholarship
- Outstanding Students Cadre

RESEARCH

Omni-Perception: Omnidirectional Collision Avoidance for Legged Locomotion in Dynamic Environments.

[[CoRL Oral 2025](#)] Zifan Wang, Teli Ma, Yufei Jia, Xun Yang, Wenlong Ouyang, Qiang Zhang, Junwei Liang

GLOVER: Generalizable open-vocabulary affordance reasoning for task-oriented grasping.

[[CoRL 2025. Best Paper Award on Generalizable Priors for Robot Manipulation Workshop](#)]

Teli Ma*, Zifan Wang*, Jiaming Zhou, Mengmeng Wang, Junwei Liang

GLOVER++: Unleashing the Potential of Affordance Learning from Human Behaviors for Robotic Manipulation

[[Corl 2025](#)] Teli Ma, Jia Zheng, Zifan Wang, Ziyao Gao, Jiaming Zhou, Mengmeng Wang, Junwei Liang

Exploring the limits of vision-language-action manipulations in cross-task generalization

[[NeurIPS 2025](#)] Jiaming Zhou, Ke Ye, Jiayi Liu, Teli Ma, Zifan Wang, Ronghe Qiu, Kun-Yu Lin, Zhilin Zhao, Junwei Liang

DISCOVERSE: Efficient Robot Simulation in Complex High-Fidelity Environments

[[IROS 2025 Oral](#)]

Preference Aligned Diffusion Planner for Quadrupedal Locomotion Control

[[IROS 2025](#)] Xinyi Yuan, Zhiwei Shang, Zifan Wang, Chenkai Wang, Zhao Shan, Meixin Zhu, Chenjia Bai, Xuelong Li, Weiwei Wan, Kensuke Harada.

Arm-Constrained Curriculum Learning for Loco-Manipulation of the Wheel-Legged Robot.

[[IROS 2024 Oral](#)] Zifan Wang, Yufei Jia, Lu Shi, Haoyu Wang, Haizhou Zhao, Xueyang Li, Jinni Zhou, Jun Ma, Guyue Zhou

Contrastive Imitation Learning for Language-guided Multi-Task Robotic Manipulation.

[[CORL 2024](#)] Teli Ma, Jiaming Zhou, Zifan Wang, Ronghe Qiu, Junwei Liang

Mitigating the Human-Robot Domain Discrepancy in Visual Pre-training for Robotic Manipulation.

[CVPR 2025] Jiaming Zhou, Teli Ma, Kun-Yu Lin, Zifan Wang, Ronghe Qiu, Junwei Liang

End-to-End Humanoid Robot Safe and Comfortable Locomotion Policy

[Under Review] Zifan Wang, Xun Yang, Jianzhuang Zhao, Jiaming Zhou, Teli Ma, Ziyao Gao, Arash Ajoudani, Junwei Liang

COMPETITION

National Second Prize | Equestrian Simulation of Asia-Pacific Broadcasting Union Robocon 08/2020

- Contributed to the development of a segment of the Simulink simulation system and engaged in co-simulation using Adams, facilitating the execution of multiple maneuvers by the quadruped robot in a simulated environment.

National Third Prize | RoboMaster of DJI 08/2020

- Contributed to the development of the fundamental control framework utilizing Linear Quadratic Regulator [LQR] techniques. Implemented sensing algorithms for image processing and LiDAR data interpretation, and executed sensor data fusion. Additionally, contributed to the design of the vehicle's hardware circuitry, encompassing aspects such as driver circuits and power supply systems.

National Second Prize | Asia-Pacific Broadcasting Union Robocon 05/2019

- Responsible for the leg motion control of the quadruped robot, the ejection and gripping device control of the upper structure of the four-wheel omnidirectional robot

Provincial Second Prize | National College Student Engineering Training Competition

10/2019

- Responsible for hardware circuit design, fusion of the data of the orthogonal code disk and DT35 laser ranging module, estimation of the current position of the car body, and the communication protocol between different functional modules

Provincial Third Prize | National Undergraduate Electronics Design Contest

08/2019

- Responsible for the hardware circuit design of the electromagnetic gun, the control algorithm based on BP neural network of the shooting distance
- The transplantation of the operating system U-COSIII on the ARM core processor, the test of control algorithm on simple model, etc.