

QINGWEI BEN

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EDUCATION

The Chinese University of Hong Kong

Sep. 2024 – Present

Ph.D in Information Engineering at Multimedia Lab (MMLab)

- Advised by Prof. Dahua Lin

Tsinghua University

Sep. 2020 – Jun. 2024

B.Sc. in Mathematics and Physics and B.Eng. in Software Engineering

RESEARCH EXPERIENCE

Research Intern, mentored by Dr. Jiangmiao Pang

Sep. 2023 – Present

OpenRobotLab, Shanghai AI Lab, Beijing & Shanghai, China

Research Intern, advised by Prof. Huazhe Xu

Mar. 2023 – Mar. 2024

TEA Lab, IIIS, Tsinghua University, Beijing, China

Research Intern, mentored by Prof. Chuang Gan

Jun. 2023 – Sep. 2023

MIT-IBM Watson AI Lab & Umass Amherst, Boston, MA, USA

PUBLICATION

(* shows equal contribution)

- [1] **HOMIE: Humanoid Mobile Manipulation with Isomorphic Exoskeleton Cockpit** Qingwei Ben*, Feiyu Jia*, Jia Zeng, Junting Dong, Dahua Lin, Jiangmiao Pang. (In submission)
- [2] **BeamDojo: Learning Agile Humanoid Locomotion on Sparse Footholds** Huayi Wang, ZiRui Wang, Junli Ren, Qingwei Ben, Tao Huang, Weinan Zhang, Jiangmiao Pang. (In submission)
- [3] **Learning Humanoid Standing-up Control across Diverse Postures** Tao Huang, Junli Ren, Huayi Wang, ZiRui Wang, Qingwei Ben, Muning Wen, Xiao Chen, Jianan Li, Jiangmiao Pang. (In submission)
- [4] **VB-Com: Learning Vision-Blind Composite Humanoid Locomotion Against Deficient Perception** Junli Ren, Tao Huang, Huayi Wang, ZiRui Wang, Qingwei Ben, Jiangmiao Pang, Ping Luo. (In submission)
- [5] **GRUtopia: Dream General Robots in a City at Scale** Hanqing Wang*, Jiahe Chen*, Wensi Huang*, Qingwei Ben*, Tai Wang*, Boyu Mi*, Tao Huang, Siheng Zhao, Yilun Chen, Sizhe Yang, Peizhou Cao, Wenye Yu, Zichao Ye, Jialun Li, Junfeng Long, Zirui Wang, Huiling Wang, Ying Zhao, Zhongying Tu, Yu Qiao, Dahua Lin, Jiangmiao Pang. (In submission)
- [6] **RoboDuet: Learning a Cooperative Policy for Whole-body Legged Loco-Manipulation** Guoping Pan*, Qingwei Ben*, Zhecheng Yuan, Guangqi Jiang, Yandong Ji, Shoujie Li, Jiangmiao Pang, Houde Liu, Huazhe Xu. (RA-L, ICRA 2024 Mobile-Manipulation Workshop)
- [7] **DiffTactile: A Physical-based Differentiable Tactile Simulation for Contact-rich Robotic Manipulation** Zilin Si*, Gu Zhang*, Qingwei Ben*, Branden Romero, Xian Zhou, Chao Liu, Chuang Gan. (ICLR 2024 Poster, RSS 2024 Noosphere Workshop Best Paper)

SKILLS

- *Professional Skills*: Python, C/C++, Java, Javascript, ROS, Pytorch, Git, Docker, Qt, HTML, CSS, SQL, VUE, Flask, Taichi, Brax, Database, Wechat Mini Program, SolidWorks, Isaac Sim, Isaac Gym, Mujoco
- *Language*: Madarin (native), English (proficient, TOFEL 107/120), Lower Yangtze Mandarin (native)

RESEARCH INTERESTS

Embodied AI, Humanoid, Quadruped, Loco-Manipulation, Tactile, Dexterous Hand

TEACHING SERVICE

- CUHK IERG 4998: Final Year Project, Autumn 2024
- CUHK IERG 4998: Final Year Project, Spring 2025