

QINGWEI BEN

✉ elgceben@gmail.com · ☎ (+86) 187-5138-9818 · 🌐 Qingwei Ben

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

Visiting Researcher, advised by Prof. Chuang Gan Jun. 2023 – Sep. 2023

Umass Amherst, Amherst, MA, USA

REPRESENTATIVE 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. (RSS 2025)
- [2] **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+IROS 2025, ICRA 2024 Mobile-Manipulation Workshop)
- [3] **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)
- [4] **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)

OTHER PUBLICATION

(* shows equal contribution)

- [1] **SMAP: Self-supervised Motion Adaptation for Physically Plausible Humanoid Whole-body Control** Haoyu Zhao*, Sixu Lin*, Qingwei Ben, Minyue Dai, Hao Fei, Jiangmiao Pang, Jingbo Wang, Junting Dong, Hua Zou. (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. (RSS 2025)
- [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. (RSS 2025)
- [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)

SKILLS

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

RESEARCH INTERESTS

Embodied AI, Humanoid, Quadruped, Loco-Manipulation, Tactile, Teleoperation

TEACHING SERVICE

- CUHK IERG 4998: Final Year Project, Autumn 2024 (Teaching Assistant)
- CUHK IERG 4998: Final Year Project, Spring 2025 (Teaching Assistant)

HONORS

- RSS 2024 Noosphere Workshop Best Paper (DiffTactile)

COMMUNITY SERVICE

- Reviewer: IROS 2025