

QINGWEI BEN

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EDUCATION

The Chinese University of Hong Kong

Sep. 2024 – Future

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

- Advised by Prof. Dahua Lin

Tsinghua University

Sep. 2020 – Present

B.S. in Mathematics and Physics and B.E. in Software Engineering

RESEARCH EXPERIENCE

Short-horizon Control in Embodied City, mentored by Dr. Jiangmiao Pang

Sep. 2023 – Present

Research Intern OpenRobotLab, Shanghai AI Lab

Whole body control for legged robot, advised by Prof. Huazhe Xu

Mar. 2023 – Mar. 2024

Research Intern TEA Lab, IIIS, Tsinghua University

Differentiable Tactile Simulator, mentored by Prof. Chuang Gan

June. 2023 – Sep. 2023

Research Intern MIT-IBM Watson AI Lab & Umass Amherst

PUBLICATION

(* shows equal contribution)

[1] 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. **"GRUtopia: Dream General Robots in a City at Scale"**. (In submission)

[2] Guoping Pan*, **Qingwei Ben***, Zhecheng Yuan, Guangqi Jiang, Yandong Ji, Jiangmiao Pang, Houde Liu, Huazhe Xu. **"RoboDuet: A Framework Affording Mobile Manipulation and Cross-Embodiment"**. (ICRA 2024 Mobile-Manipulation Workshop)

[3] Zilin Si*, Gu Zhang*, **Qingwei Ben***, Branden Romero, Xian Zhou, Chao Liu, Chuang Gan. **"DiffTactile: A Physical-based Differentiable Tactile Simulation for Contact-rich Robotic Manipulation"**. (ICLR 2024 Poster, RSS 2024 Noosphere Workshop Best Paper)

SKILLS

- *Programming Languages*: Python, C/C++, Java, Javascript, Swift
- *Tools of Production*: ROS, Pytorch, Git, Docker, Qt, HTML, CSS, MASM, SQL, VUE, Flask, MFC, Isaac-Gym, IsaacSim, Taichi, Brax
- *Development Skills*: Database, Web, FTP, Wechat Mini Program, Win32 Program
- *Language*: Madarin (native), English (proficient, TOFEL 107/120), Lower Yangtze Mandarin (native)