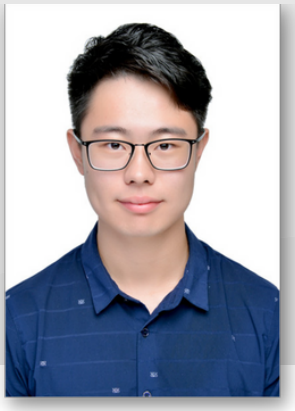
Chenhao Li

April 28, 1997 | Rämistrasse 101, 8092 Zurich | +41 76 454 04 28
https://breadli428.github.io/ | chenhli@student.ethz.ch



EDUCATION

ETH Zurich, Zurich, Switzerland *09.2020 - current*
Master's Degree in Robotics, Systems and Control, 5.95 / 6.0

Tongji University, Shanghai, China *09.2015 - 07.2020*
Bachelor's Degree in Mechanical Engineering, 4.93 / 5.0 *Excellent Graduate*

WORK EXPERIENCE

Research Intern, Max Planck Institute for Intelligent Systems, Germany *04.2022 - current*

- Agile skill development for legged robots through Generative Adversarial Imitation Learning (GAIL).
- Intrinsic skill diversification through Diversity Is All You Need (DIAYN).

PUBLICATIONS

Versatile Skill Control via Self-supervised Imitation of Unlabeled Mixed Motions *Sub. to ICRA 2023*

- Proposed Cooperative Adversarial Self-supervised Skill Imitation (CASSI), an adversarial imitation approach with unsupervised skill discovery techniques for obtaining controllable skill sets from unlabeled datasets containing diverse state transition patterns by maximizing their discriminability.

Learning Agile Skills via Adversarial Imitation of Rough Partial Demonstrations *CoRL 2022 oral*

- ***best paper nomination***
- Proposed Wasserstein Adversarial Behavior Imitation (WASABI), a generative adversarial method for inferring reward functions from partial and potentially physically incompatible demonstrations for successful skill acquirement where reference or expert demonstrations are not easily accessible.

PROJECTS

Reinforcement Learning with Policy Integration for Mobile Manipulation *09.2021 - 03.2022*
Semester Project at Robotic Systems Lab, ETH Zurich *Python, C++, ROS*

- Developed a compositional control structure integrating low-level policies using PPO.
- Migrated orientation policy from Raisim to Isaac Gym. Performed simulation in Isaac Gym and realized position-and-orientation-commanded base pose tracking.
- Deployed learned high-level policies on ANYmal, a dog-like robot developed by ANYbotics.

SKILLS AND PROFICIENCY

Language Chinese (Native), English (C1), German (B2)
Operating Systems Windows, Linux
Programming Python, C++, ROS, MATLAB, Git, Docker
Deep Learning Frameworks PyTorch, Tensorflow

AWARDS

National Scholarship *11.2018, 11.2016*
Ministry of Education of People's Republic of China