

MIKE ZHANG

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Education

ETH Zurich (Swiss Federal Institute of Technology Zurich)
Master of Science in Robotics, Systems and Control - *With distinction* (Grade 5.93/6.00) Zurich, Switzerland
2020 - 2023

University of Toronto
Bachelor of Applied Science in Mechanical Engineering - *With high honors* (Top 5%) Toronto, Canada
2014 - 2019

Professional Experience

Robotics and AI Institute Cambridge, USA
Applied Scientist Mar. 2025 - Present

- Develop robust whole-body control policies for humanoid robots using Reinforcement Learning.
- Led development of a steerable natural locomotion policy for the Boston Dynamics Atlas humanoid robot. The policy was demonstrated live at the 2026 CES Boston Dynamics presentation.

Robotic Systems Lab, ETH Zurich Zurich, Switzerland
Research Engineer Apr. 2024 - Dec. 2024

- Led research on the topics of:
 - Map representations for high-level robotic task planning with Large Language Models.
 - Mobile manipulation through reinforcement learning in simulation and imitation learning from demonstrations.
 - Terrain reconstruction using self-supervised learning from semantic point clouds.
- Developed robotics software tools including behavior trees and sensor calibration packages.

Verity AG Zurich, Switzerland
Part-time Student Software Engineer Jan. 2022 - Sep. 2022

- Contributed to the development of an in-house C++ API to map warehouses for navigation by autonomous drones along with GUI tools to assist the map engineering team and on-site personnel.

Flyability SA Paudex, Switzerland
Junior Robotics Engineer Sep. 2019 - Jul. 2020

- Implemented a lidar-inertial SLAM localization algorithm for Flyability's next-generation inspection drone.
- Assisted with projects for the DARPA Subterranean Challenge as part of team CERBERUS.

Publications

First Author

- Tag Map: A Text-Based Map for Spatial Reasoning and Navigation with Large Language Models. In *Proceedings of the 8th Annual Conference on Robot Learning (CoRL)*, 2024.
Paper: <https://arxiv.org/abs/2409.15451> Project webpage: tag-mapping.github.io
- Learning to Open and Traverse Doors with a Legged Manipulator. In *Proceedings of the 8th Annual Conference on Robot Learning (CoRL)*, 2024.
Paper: <https://arxiv.org/abs/2409.04882> Project video: youtu.be/tQDZXN_k5NU

Co-Author

- ZEST: Zero-shot Embodied Skill Transfer for Athletic Robot Control. *arXiv preprint*, 2026.
Paper: <https://arxiv.org/abs/2602.00401>

Competencies

Robotics: Robot Operating System (ROS), Optimization (YALMIP, CVXPY, CasADi), Simulation (MuJoCo, IsaacGym, IsaacLab).

Machine Learning: PyTorch, Scikit-Learn.

Programming: C++, Python, Bash.

Software Development: Linux, Git, CMake, Bazel, Docker, Singularity Containers.

Teaching Experience

- Robot Dynamics (Head TA) - Fall 2024, ETH Zurich
- Advanced Model Predictive Control - Spring 2023, ETH Zurich
- Programming for Robotics (ROS) - Spring 2023, ETH Zurich
- Robot Dynamics - Fall 2021, ETH Zurich