Tyler Han

+1-317-798-6397 | than123@cs.washington.edu | thanandnow.github.io

🖬 LinkedIn | 🖓 geiko246 | 🕈 Google Scholar | 🎔 TylerHan19

EDUCATION

University of Washington

Ph.D. Computer Science
• University of Maryland

B.S. Aerospace Engineering | B.S. Computer Science | Minor: Mathematics

Research Interest

I am broadly interested in **robotics**, **controls**, **and imitation learning**. Through targeting real systems, my research is inspired by human-level ability across classical robotics modules (e.g. perception, planning, controls).

PROJECTS

• Imi Rob	itation Learning for Off-Road Racing ot Learning Lab	Sep 2023 - Present
• Developing end-to-end adversarial imitation learning methods for high-speed off-road racing using IsaacLab		
• Robotic Autonomy in Complex Environments with Resiliency (RACER) Defense Advanced Research Projects Agency (DARPA)		June 2022 - Present [\$]
۰ A	Algorithmic and software development of control system for state-of-the-art unmanned ground vehicle (UGV)	
 Conduction of day and week long field tests for controls system and perception & planning integration 		
• Au <i>The</i> • D	tonomous Tunnel Boring Boring Company Not-a-Boring Competition Development of globalization, dynamics, and control system for autonomous tunnel boring (1 n	<i>Sep</i> 2020 - <i>May</i> 2022
• De Nav • D	ep Motor Primitives <i>val Research Laboratory</i> <i>vevelop algorithms for learning motor primitives using Dynamic Mode Decomposition and its</i>	Aug 2020 - Dec 2021 derivatives
• Ma UM • In PUB	Inipulation for Satellite Servicing ID Space Systems Laboratory Infrastructural and algorithmic software development for 8-DOF dexterous satellite servicing m	Jan 2019 - Aug 2020 anipulator
 Tyler Han, Alex Liu, Alex Spitzer, Guanya Shi, Byron Boots. "Model Predictive Control for Aggressive Driving Over Uneven Terrain", <i>Robotics: Science and Systems (RSS)</i>, 2024. [pdf] [website] 		
2.	Chuning Zhu, Xinqi Wang, Tyler Han, Simon Du, Abhishek Gupta. "Transferable Reinforcement Learning via Generalized Occupancy Models", <i>Neural Information Processing Systems</i> (<i>NeurIPS</i>), 2024. [pdf] [website]	
IN P	ROGRESS & PREPRINTS	
1.	Tyler Han, Sidharth Talia, Rohan Panicker, Preet Shah, Neel Jawale, Byron Boots. "Dynamics Models in the Aggressive Off-Road Driving Regime", <i>International Conference on Robotics and Automation (ICRA)</i> . Workshop on Off-Road Autonomy, 2024. [pdf]	
Ho	NORS AND AWARDS	
• Gra Nat	aduate Research Fellowship Program (GRFP) ional Science Foundation	March 2023

OUTREACH

Robotics Research Mentoring

Robot Learning Lab

 \circ Master's Students: Preet Shah, Alex Liu \rightarrow Now Software Engineer at Amazon (2024)

 \circ Undergraduate Students: Gabe Guo, Alyssa Giedd \rightarrow Now Ph.D. Student at University of Washington (2024)

• High School Students: Vansh Chhabra

• Pre-Application Mentorship Program

University of Washington, Department of Computer Science & Engineering

• Mentor to students in under-represented or underserved communities considering graduate school

June 2022 - Present Advisor: Byron Boots

> Sep 2018 - May 2022 GPA: 3.9 / 4.0

June 2023 - Present

September 2022 - Present

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