

YUNHAI HAN

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EDUCATION BACKGROUND

Georgia Institute of Technology

Ph.D. in Robotics

06/2022 - present

GPA: 4.00/4.00

· **Advisor:** Harish Ravichandar

University of California, San Diego (UCSD)

M.S. in Mechanical Engineering

09/2019 - 06/2021

GPA: 3.846/4.00

· **Relevant Course:** Robotics

Yanshan University

B.S. in Mechanical Engineering

09/2015 - 07/2019

GPA: 3.761/4.5, Major GPA: 3.804/4.5

· **Relevant Course:** Mechatronics

Ranking: 2nd of 594 (First six semesters)

FILED OF INTERESTS

Learning for robotic manipulation, Robot learning

PUBLICATIONS

- **Han. Y**, Liu. Y, Paz. D, and Christensen. I. H, "Auto-calibration Method Using Stop Signs for Urban Autonomous Driving Applications", International Conference on Robotics and Automation, 2021
- Christensen. I. H, Paz. D, H. Zhang, D. Meyer, Hao. X, **Han. Y**, Liu. Y, Andrew. L , Z. Zhong, S. Tang, "Autonomous Vehicles for Micro-Mobility", Autonomous Intelligent System
- **Han. Y**, Liu. F and M. C. YIP, "A 2D Surgical Simulation Framework for Tool-Tissue Interaction", International Conference on Intelligent Robots and Systems, 2020, Workshop
- Liu. F, Li. Z, **Han. Y**, J Lu, F Richter and M. C. YIP, "*Real-to-Sim* Registration of Deformable Soft Tissue with Position-Based Dynamics for Surgical Robot Autonomy", International Conference on Robotics and Automation, 2021
- **Han. Y** and Martínez. S, "A Numerical Verification Framework for Differential Privacy in Estimation", IEEE Control Systems Letters
- **Han. Y**, Batra. R, Boyd. N, Zhao. T, She. Y, Hutchinson. S, Zhao. Y, "Learning Generalizable Vision-Tactile Robotic Grasping Strategy for Deformable Objects via Transformer", arXiv:2112.06374
- M. E. Cao, J. Warnke, **Han. Y**, Ni. Xinpei, Zhao. Y, Coogan. S, "Leveraging Heterogeneous Capabilities in Multi-Agent Systems for Environmental Conflict Resolution", International Symposium on Safety, Security, and Rescue Robotics, 2022
- **Han. Y**, Boyd. N, Ni. Xinpei, Zhao. Y, "Multi-Robot Collaboration with Heterogeneous Capabilities", American Control Conference, 2022
- **Han. Y**, Xie. M, Zhao. Y, Ravichandar. H, "On the Utility of Koopman Operator Theory in Learning Dexterous Manipulation Skills", arXiv:2303.13446

AWARDS & HONORS

AWARDS

- 06/2016 China Undergraduate Mathematical Contest in Modelling (CUMCM) *Second Prize*
- 03/2017 Zhou Peiyuan Mechanics Competition *National Excellence Award*
- 05/2017 National Undergraduate Electronic Design Contest *Successful Entry Certificate*
- 09/2017 Asia-Pacific Mathematical contest in modeling (APMCM) *Second Prize*
- 01/2018 Mathematical Contest in Modeling (MCM/ICM) *Honorable Mention*
- 08/2018 RM RoboMasters *Second Prize*

HONORS

- 11/2017 National Scholarship from Chinese Ministry of Education
- 07/2018 Certificate for Attendance of CDIO 2018 Academy (Japan)
- 06/2019 Certificate of Excellent Graduate in Hebei Province
- 09/2022 Georgia Tech IRIM Robotics PhD Fellowship

PROFESSIONAL SERVICE

ICRA 2021	Reviewer
AIM 2021	Reviewer
ICRA 2022	Reviewer
IROS 2022	Reviewer
ACC 2022	Session Chair
SSRR 2022	Reviewer
ICRA 2023	Reviewer

TEACHING EXPERIENCE

MAE145: Robotic Estimation & Planning	Winter. 2021
Teaching Assistant	
MAE146: Introduction to ML Algorithms	Spring. 2021
Teaching Assistant	

WORKING EXPERIENCE

Georgia Institute of Technology	Summer. 2021 - Spring. 2022
Research Assistant	

TECHNICAL SKILLS

Programming	C/C++, Python, MATLAB/Simulink
Tool	STM32, ROS, Drake, Git, Linux, L ^A T _E X
Language	Proficient in English and Chinese