# YUNHAI HAN

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#### EDUCATION BACKGROUND

Georgia Institute of Technology

06/2022 - present Ph.D. in Robotics GPA: 4.00/4.00

· Advisor: Harish Ravichandar

University of California, San Diego (UCSD)

M.S. in Mechanical Engineering GPA: 3.846/4.00

09/2019 - 06/2021

· Relevant Course: Robotics

Yanshan University 09/2015 - 07/2019

GPA: 3.761/4.5, Major GPA: 3.804/4.5 B.S. in Mechanical Engineering

Ranking:  $2^{nd}$  of 594 (First six semesters) · Relevant Course: Mechatronics

#### FILED OF INTERESTS

Learning for robotic manipulation, Robot learning

## **PUBLICATIONS**

- Han. Y, Xie. M, Zhao. Y, Ravichandar. H, "On the Utility of Koopman Operator Theory in Learning Dexterous Manipulation Skills", Oral Presentation at CoRL 2023
- 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", SSRR, 2022
- Han. Y, Boyd. N, Ni. Xinpei, Zhao. Y, "Multi-Robot Collaboration with Heterogeneous Capabilities", ACC, 2022
- Han. Y and Martínez. S, "A Numerical Verification Framework for Differential Privacy in Estimation", L-CSS & ACC, 2022
- 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
- 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", ICRA, 2021
- Han. Y, Liu. Y, Paz. D, and Christensen. I. H, "Auto-calibration Method Using Stop Signs for Urban Autonomous Driving Applications", ICRA, 2021
- Han. Y, Liu. F and M. C. YIP, "A 2D Surgical Simulation Framework for Tool-Tissue Interaction", IROS, 2020, Workshop

#### **AWARDS & HONORS**

## AWARDS

06/2016	China Undergraduate Mathematical Contest in Modelling (CUMCM	I) 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

- $\cdot$  11/2017 National Scholarship from Chinese Ministry of Education
- $\cdot$  07/2018 Certificate for Attendance of CDIO 2018 Academy (Japan)
- $\cdot$  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
MAD140. RODOUL ESUMATION & LIAMINE	VV 1110C1 . ZUZ 1

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, LATEX
Language	Proficient in English and Chinese