

YIXUAN HUANG

Ph.D. student at University of Utah ◊ Personal Website

EDUCATION

University of Utah, Salt Lake City, UT

Ph.D. in Computing: Robotics

Advisor: Prof. Tucker Hermans

Selected Coursework: Robotics, Robot Control, Robot Learning, Motion planning, Computer Vision

Aug 2020 - Current

Overall GPA: 3.97/4.0

University of California, San Diego, La Jolla, CA

Exchange student

Advisor: Prof. Sicun Gao

Senior Coursework: Deep Learning, Machine Learning, Operating System, Computer Networks

Sep 2018 - Jun 2019

Overall GPA: 3.91/4

Northeastern University, Liaoning, China

B.E. in Computer Science and Technology (top student in the department)

Department of Computer Science and Engineering

Coursework: Discrete Mathematics, Statistics and Probability, Numerical Analysis, Electronic Theory

Sep 2016 - Jun 2020

Overall GPA: 93.2/100, Rank: 1/278

PUBLICATIONS

Y. Huang, J. Yuan, C. Kim, P. Pradhan, B. Chen, F. Li, and T. Hermans. Out of Sight, Still in Mind: Reasoning and Planning about Unobserved Objects with Video Tracking Enabled Memory Models (2024 IEEE International Conference on Robotics and Automation (ICRA)); [Project Website] [Paper]

Y. Huang, N. C. Taylor, A. Conkey, W. Liu, and T. Hermans. Latent Space Planning for Multi-Object Manipulation with Environment-Aware Relational Classifiers (IEEE Transactions on Robotics (T-RO)); [Project Website] [Paper]

Y. Huang, A. Conkey, T. Hermans. Planning with Learned Multi-Object Relations Using Graph Neural Networks (2023 IEEE International Conference on Robotics and Automation (ICRA)); [Project Website] [Paper]

Y. Huang, M. Bentley, T. Hermans, A. Kuntz. Toward Learning Context-Dependent Tasks from Demonstration for Tendon-Driven Surgical Robots (2021 International Symposium on Medical Robotics); (**Best Paper Award Finalist & Best Student Paper Award Finalist**) [Paper]

Y. Huang, M. Bentley, R. Benny, T. Hermans, A. Kuntz. Learning Context-Dependent Tasks from Demonstration and Partial-View Point Clouds for Tendon-Driven Surgical Robots (Journal of Medical Robotics Research (JMRR)). (In Preparation);

RESEARCH EXPERIENCE

Interactive Perception and Robot Learning Lab, Stanford, CA

Visiting Student Researcher with Prof. Jeannette Bohg

Jan 2024 - Current

University of Utah, Salt Lake City, UT

Graduate Research Assistant with Prof. Tucker Hermans

Aug 2020 - Current

University of California, San Diego, La Jolla, CA

Undergraduate Research Assistant with Prof. Sicun Gao

Aug 2019 - Aug 2020

SKILLS

Computer Languages

Software & Tools

C/C++, MATLAB, Python (TensorFlow, PyTorch), Java, VHDL

IsaacGym, ROS, Gazebo, PyBullet, HTML, LaTeX

HONORS AND AWARDS

2021 International Symposium on Medical Robotics Best Paper Award Finalist	<i>Nov 2021</i>
2021 International Symposium on Medical Robotics Best Student Paper Award Finalist	<i>Nov 2021</i>
2021 International Symposium on Medical Robotics NSF Travel Award	<i>Oct 2021</i>
University of Utah School of Computing Department Fellowship	<i>Aug 2020</i>
National Scholarship (top 2% of degree cohort)	<i>Nov 2017 & 2018</i>
Northeastern University Excellent Student (top 2% of degree cohort)	<i>Dec 2017 & 2018</i>
Runner-up in National Mathematical Modeling Competition in China	<i>Oct 2017</i>
First Place in Provincial Mathematical Modeling Competition	<i>Oct.2017</i>

SERVICE

Reviewer	ICRA (2023-2024), CoRL 2023, RA-L 2024
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