YIXUAN HUANG

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

EDUCATION

University of Utah, Salt Lake City, UT *Aug 2020 - Current*
Ph.D. in Computing: Robotics Overall GPA: 3.98/4.0
Advisor: Prof. Tucker Hermans
Selected Coursework: Robotics, Robot Control, Robot Learning, Motion planning, Computer Vision

University of California, San Diego, La Jolla, CA *Sep 2018 - Jun 2019*
Exchange student Overall GPA: 3.91/4
Senior Coursework: Deep Learning, Machine Learning, Operating System, Computer Networks

Northeastern University, Liaoning, China *Sep 2016 - Jun 2020*
B.E. in Computer Science and Technology (**top** student in the department)
Department of Computer Science and Engineering Overall GPA: 93.2/100, Rank: 1/278
Coursework: Discrete Mathematics, Statistics and Probability, Numerical Analysis, Electronic Theory

RESEARCH EXPERIENCE

Interactive Perception and Robot Learning Lab, Stanford, CA *Jan 2024 - Current*
Visiting Student Researcher with Prof. Jeannette Bohg

University of Utah, Salt Lake City, UT *Aug 2020 - Current*
Graduate Research Assistant with Prof. Tucker Hermans

University of California, San Diego, La Jolla, CA *Aug 2019 - Aug 2020*
Undergraduate Research Assistant with Prof. Sicun Gao

PUBLICATIONS

Y. Huang, C. Agia, J. Wu, T. Hermans, and J. Bohg. Points2Plans: From Point Clouds to Long-Horizon Plans with Composable Relational Dynamics (Under Review); [Project Website] [Paper]

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]

HONORS AND AWARDS

2021 International Symposium on Medical Robotics Best Paper Award Finalist *Nov 2021*
2021 International Symposium on Medical Robotics Best Student Paper Award Finalist *Nov 2021*
2021 International Symposium on Medical Robotics NSF Travel Award *Oct 2021*
University of Utah School of Computing Department Fellowship *Aug 2020*
National Scholarship (top 2% of degree cohort) *Nov 2017 & 2018*

Northeastern University Excellent Student (top 2% of degree cohort) *Dec 2017 & 2018*
Runner-up in National Mathematical Modeling Competition in China *Oct 2017*
First Place in Provincial Mathematical Modeling Competition *Oct.2017*

SKILLS

Computer Languages C/C++, MATLAB, Python (TensorFlow, PyTorch), Java, VHDL
Software & Tools IsaacGym, ROS, Gazebo, PyBullet, HTML, LaTeX

SERVICE

Reviewer RSS 2024, CoRL (2023-2024), ICRA (2023-2024), RA-L 2024, ICLR 2025, IROS 2024