

# YIXUAN HUANG

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

## EDUCATION

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### 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

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

## RESEARCH EXPERIENCE

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### 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*

## PUBLICATIONS

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**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);

## HONORS AND AWARDS

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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

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**Computer Languages**

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

**Software & Tools**

IsaacGym, ROS, Gazebo, PyBullet, HTML, LaTeX

## SERVICE

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**Reviewer**

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