

HANG YU

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EDUCATION

- Tufts University** • Medford, MA Jan 2021 – Present
Ph.D Candidate • *Computer Science* • GPA: 4.0/4.0
- Tufts University** • Medford, MA Sep 2019 – Dec 2020
Master of Science • *Computer Science* • GPA: 3.96/4.0
- Yantai University** • Yantai, ShangDong Sep 2015 – May 2019
Bachelor of Science • *Computer Science*

RESEARCH OVERVIEW

The goal of my research is to improve human-in-the-loop learning through effective use of human teaching signals leading to more natural and more expressive interactions.

Key words: Assistive robotics, human-robot interaction, interactive reinforcement learning, inverse reinforcement learning, learning from demonstration, data mining

PUBLICATIONS

Peer-Reviewed Conference Papers

- **Hang Yu**, Reuben M. Aronson, Katherine H. Allen, and E. Short, *From “Thumbs Up” to “10 out of 10”: Reconsidering Scalar Feedback in Interactive Reinforcement Learning* 2023 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), Detroit, USA, 2023.

Peer-Reviewed Journal Articles

- Tan, Z., **Yu, H.**, Wei, W., & Liu, J. (2020). *Top-K interesting preference rules mining based on MaxClique*. Expert Systems with Applications, 143, 113043.
- **YU Hang**, WEI Wei, TAN Zheng, LIU Jing-lei. *Contextual Preference Collaborative Measure Framework Based on Belief System*. Computer Science, 2020, 47(4): 74-84.
- TAN, Z., LIU, J., & **YU, H.** (2017). *Conditional preference mining based on MaxClique*. Journal of computer Applications, 37(11), 3107.

Peer-Reviewed Workshop Papers

- **Hang Yu** and Elaine Schaertl Short. 2021. *Active Feedback Learning with Rich Feedback*. In Companion of the 2021 ACM/IEEE International Conference on Human-Robot Interaction (HRI '21 Companion). Association for Computing Machinery, New York, NY, USA, 430–433.
- **Hang Yu** and Elaine Schaertl Short. 2020. *Learning with Dynamic Feedback*. RSS workshop 2020: Closing the Academia to Real-World Gap in Service Robotics.

TEACHING AND MENTORING

Teaching Assistant

- Human Robot Interaction (graduate), Tufts University Fall 2022
- Human Computer Interaction (graduate), Tufts University Spring 2021
- C++ programming (undergraduate), Yantai University Spring 2017

Mentoring

- Matthew Ebisu, Master’s Thesis, Tufts University 2022-present
- Wei Wei, Undergraduate Research, Yantai University, (Journal Article:1 and 2) 2017-2019

SERVICE

- Reviewer for Human-Robot Interaction, 2021, 2022
- Human-Robot Interaction paper accessibility service, 2020
- Co-organizer, Tufts AABL Lab Hackathon, 2021-present
- Co-founder of the Tutfs HRI Reading Group, 2020-present
- Tufts Computer Science Student Council, 2023-present
- Reviewer for International Conference on Robotics and Automation, 2023

AWARDS AND OTHER

- National First Prize **top 0.5%**, Lanqiao Programming Competition May 2016