Huaxiaoyue (Yuki) Wang

✉ yukiwang@cs.cornell.edu | 🐦 @YukiWang_hw | Cornell University, Ithaca, NY
🌐 https://lunay0yuki.github.io/ | 💼 yukiwang-hw | 📑 Google Scholar

Summary

Cornell CS PhD Student with ML, NLP, and robotics expertise working on decision-making agents that act given different levels of information (e.g. task specification, natural language feedback). Specializing in large language models, foundation models for robotics, and LLM agents. Experienced in conducting real-world experiments, training ML models, and leading research projects that are accepted to top ML conferences.

Research Experience

08/2022 – present   🔖 **Graduate Research Assistant.**
Cornell University, Computer Science Department.
Advisor: Prof. Sanjiban Choudhury, PoRTaL group.
Published at ICAPS 2022; NeurIPS 2022; CoRL 2024 (2x).
– **Developed novel algorithms for learning from visual demonstrations**: inverse reinforcement learning for manipulation tasks [1], [3]; active preference learning using LLMs [2]; code generation [5].
– **Led implementation of real-world robotics systems**: long-horizon mobile manipulation [2]; collaborative home cooking with a user and two robots [4].

05/2021 – 05/2022   🔖 **Undergraduate Research Assistant.**
Harvey Mudd College, Computer Science Department.
Advisor: Prof. Jim Boerkoel, Human Experience & Agent Teamwork Lab.
– **Theoretically investigated human-robot collaboration**: task allocation given temporal constraints [6].

02/2020 – 05/2022   🔖 **Undergraduate Research Assistant.**
Harvey Mudd College, Engineering Department.
Advisor: Prof. Christopher Clark, Lab for Autonomous and Intelligent Robotics.

08/2018 – 12/2019   🔖 **Undergraduate Research Assistant.**
Harvey Mudd College, Engineering Department.
Advisor: Prof. David Harris, The HMC Aero Lab.

Education

2022 – present   🔖 **Cornell University, Ph.D.**
Department of Computer Science, GPA 4.0/4.0
Advisor: Sanjiban Choudhury.
Expected to Graduate: May 2027

2018 – 2022   🔖 **Havery Mudd College, B.S.**
Department of Computer Science, GPA 3.9/4.0
Programming Languages: Python, ROS, C++, C, Java, JavaScript, HTML, CSS, Git.

Research Publications

Pre-Prints

1. W. Huey*, **Huaxiaoyue Wang***, A. Wu, Y. Artzi, and S. Choudhury, *Imitation learning from a single temporally misaligned video*, 2025. arXiv: 2502.05397 [cs.LG]. 🔗 URL: https://arxiv.org/abs/2502.05397.

Conference Proceedings

1. **Huaxiaoyue Wang**, N. Chin, G. Gonzalez-Pumariega, *et al.*, "APRICOT: Active preference learning and constraint-aware task planning with LLMs," in *8th Annual Conference on Robot Learning*, 2024. 🔗 URL: https://openreview.net/forum?id=nQslM6f7dW.

2. **Huaxiaoyue Wang***, W. Huey*, A. Wu, Y. Artzi, and S. Choudhury, "Time your rewards: Learning temporally consistent rewards from a single video demonstration," in *CoRL 2024 Workshop on Whole-body Control and Bimanual Manipulation: Applications in Humanoids and Beyond*, 2024. 🔗 URL: https://openreview.net/forum?id=gsgkiuv9BS.

3. **Huaxiaoyue Wang***, K. Kedia*, J. Ren*, *et al.*, "MOSAIC: Modular foundation models for assistive and interactive cooking," in *8th Annual Conference on Robot Learning*, 2024. 🔗 URL: https://openreview.net/forum?id=dUo6j3YURS.

4. **Huaxiaoyue Wang**, G. Gonzalez-Pumariega, Y. Sharma, and S. Choudhury, "Demo2code: From summarizing demonstrations to synthesizing code via extended chain-of-thought," in *Thirty-seventh Conference on Neural Information Processing Systems*, 2023. 🔗 URL: https://openreview.net/forum?id=ftPoVcm821.

Journal Articles

1. M. Morgan*, J. Schalkwyk*, **Huaxiaoyue Wang***, *et al.*, "Simple temporal networks for improvisational teamwork," *Proceedings of the International Conference on Automated Planning and Scheduling*, vol. 32, no. 1, pp. 261–269, Jun. 2022. 🔗 DOI: 10.1609/icaps.v32i1.19809.

Teaching Experience

08/2022 – 05/2023	**Graduate Teaching Assistant.** Cornell University, Computer Science Department. Introduction to CS, Robot Learning Supervisors: Prof. Sanjiban Choudhury, Prof. Walker White.
08/2019 – 05/2022	**Undergraduate Teaching Assistant.** Cornell University, Computer Science Department. Courses: Intro. to CS; Data Structure & Programming Development; Computability & Logic; Algorithms. Supervisors: Prof. Zachary Dodds; Prof. Julie Medero; Prof. George D. Montanez; Prof. Ran Libeskind-Hadas.

Awards and Achievements

2024	At ICRA 2024, "MOSAIC: Modular foundation models for assistive and interactive cooking" won **the Best Paper** at the VLMNM Workshop and **the Best Poster** at the MoMa Workshop.
2022	**The Greever Award,** Harvey Mudd College. Made an outstanding contribution to a collaborative project with eBay.
	Graduated with High Distinction, Harvey Mudd College.
	Departmental Honors in Computer Science, Harvey Mudd College.