

HAONAN CHEN

268 Coordinated Science Lab ◊ 1308 W Main St, Urbana, IL 61801, U.S.

haonan2@illinois.edu

EDUCATION

Ph.D. in Electrical and Computer Engineering

University of Illinois Urbana-Champaign

08/2020 - Present

B.Sc. in Electrical Engineering with Highest Honors

University of Illinois Urbana-Champaign

09/2016 - 05/2020

GPA: 3.98/4.0

B.Eng. in Electrical Engineering and Automation

Zhejiang University

09/2016 - 06/2020

GPA: 3.99/4.0 (Rank: 1/30)

PUBLICATIONS AND PREPRINTS

- [Under Review] [H. Chen](#), J. Xu*, L. Sheng*, T. Ji, S. Liu, Y. Li, K. Driggs-Campbell. “Learning Coordinated Bimanual Manipulation Policies using State Diffusion and Inverse Dynamics Models.” Under Review, 2024.
- [JATS’24] A. Hasan, N. Chakraborty, [H. Chen](#), J.-H. Cho, C. Wu, K. Driggs-Campbell. “Cooperative Advisory Residual Policies for Congestion Mitigation.” *ACM Journal on Autonomous Transportation Systems*, 2024. [\[pdf\]](#)
- [Under Review] A. Hasan, N. Chakraborty, [H. Chen](#), J.-H. Cho, C. Wu, K. Driggs-Campbell. “Lessons in Cooperation: A Qualitative Analysis of Driver Sentiments towards real-time Advisory Systems through a Focus Group User Study.” Under Review, 2024. [\[pdf\]](#)
- [CoRL’23] [H. Chen](#), Y. Niu*, K. Hong*, S. Liu, Y. Wang, Y. Li, K. Rose Driggs-Campbell. “Predicting Object Interactions with Behavior Primitives: An Application in Stowing Tasks.” *2023 Conference on Robot Learning*. [\[pdf\]](#) [\[Project & Video\]](#)
Finalist - Best Paper/Best Student Paper Awards
- [CASE’23] Z. Huang, Y. Mun, [H. Chen](#), Y. Xie, Y. Niu, X. Li, N. Zhono, H. You, D.L. McPherson, K. Driggs-Campbell. “Towards Safety of Multi-Level Human-Robot Interaction in Industrial Tasks.” *IEEE Conference on Automation Science and Engineering (CASE), Special Session on Cyberphysical Manufacturing Networks*, 2023.
- [CASE’23] [H. Chen](#)*, Y. Mun*, Z. Huang, Y. Niu, Y. Xie, D.L. McPherson, K. Driggs-Campbell. “Learning Task Skills and Goals Simultaneously from Physical Interaction.” *IEEE Conference on Automation Science and Engineering (CASE), Special Session on Cyberphysical Manufacturing Networks*, 2023.
- [ITSC’23] A. Hasan, N. Chakraborty*, [H. Chen](#)*, J.-H. Cho, C. Wu, K. Driggs-Campbell. “PeRP: Personalized Residual Policies For Congestion Mitigation Through Co-operative Advisory Systems.” *IEEE International Conference on Intelligent Transportation Systems*, 2023. [\[pdf\]](#) [\[Website\]](#)
Best Presentation Award at CSLSC 2024 [\[Link\]](#)
- [ITSC’22] [H. Chen](#), T. Ji, S. Liu, K. Driggs-Champbell. “Combining Model-Based Controllers and Generative Adversarial Imitation Learning for Traffic Simulation.” *IEEE International Conference on Intelligent Transportation Systems (ITSC 2022)*. [\[pdf\]](#)

[**ICRA'22**] S. Liu, P. Chang, H. Chen, N. Chakraborty, K. Driggs-Champbell. "Learning to Navigate Intersections with Unsupervised Driver Trait Inference." *IEEE International Conference on Robotics and Automation*, 2022. [[pdf](#)] [[Website](#)] [[Video](#)]

[**IROS'20**] P. Chang, S. Liu, H. Chen, K. Driggs-Campbell. "Robot Sound Interpretation: Combining Sight and Sound in Learning-Based Control." *IEEE/RSJ International Conference on Intelligent Robots and Systems*, 2020. [[pdf](#)] [[Video](#)]

TEACHING & ADVISING

Undergraduate Teaching Assistant

- ZJU-UIUC Institute Math 241 – Calculus III Fall 2018
- ZJU-UIUC Institute ECE 310 – Digital Signal Processing Fall 2019
- ZJU-UIUC Institute ECE 311 – Digital Signal Processing Lab Fall 2019

AWARDS AND HONORS

Conference Travel Award, Graduate College, University of Illinois Urbana-Champaign 2023
Finalist - Best Paper/Best Student Paper Awards, Conference on Robot Learning 2023
Bronze Tablet Award, University of Illinois Urbana-Champaign 2020
Excellent Graduate, Zhejiang University 2020
Student Speaker at Graduation, ZJU-UIUC Institute 2020
Provincial Government Scholarship, Zhejiang Province, China (Top 3%) 2019
Dean's List, University of Illinois Urbana-Champaign 2019
National Scholarship, China (Top 1.8%) 2018
Excellent Undergraduate Scholarship, Zhejiang University (Top 3%) 2018-2019
Academic Excellence Scholarship Award, ZJU-UIUC Institute 2017-2019
Top Ten Social Practice, Zhejiang University (Top 1.5%) 2017

SERVICE AND LEADERSHIP

- **Robotics Seminar @ Illinois**
Organizer August 2023 - Present
- **Coordinated Science Laboratory Student Conference**
Organizer 2024

PROFESSIONAL SERVICE

- **Session Chair:**
 - CASE - IEEE Conference on Automation Science and Engineering, 2023
- **Reviewer:**
 - CoRL - Conference on Robot Learning
 - ICRA - IEEE International Conference on Robotics and Automation
 - ITSC - IEEE International Conference on Intelligent Transportation Systems
 - CASE - IEEE Conference on Automation Science and Engineering

EXTRA-CURRICULAR SERVICE

Founding Team Leader, Robotic Team for RoboMaster Challenge, ZJU-UIUC Institute 10/2017-06/2018