Yeping Wang

yeping@cs.wisc.edu | https://yepw.github.io

Education

University of Wisconsin-Madison, Madison, WI — August 2020 - present
Ph.D. in Computer Sciences — GPA: 3.93/4.0
Research Advisor: Prof. Michael Gleicher

Johns Hopkins University, Baltimore, MD — August 2018 - May 2020
M.S.E. in Robotics — GPA: 3.97/4.0
Research Advisor: Prof. Chien-Ming Huang

South China University of Technology, Guangzhou, China — September 2014-June 2018
B.E. in Mechanical Engineering — GPA: 3.88/4.0

Publications

Peer-Reviewed Conference Papers

6. **Wang, Y.**, Sifferman C., Gleicher, M. (2024). *IKLink*: End-Effector Trajectory Tracking with Minimal Reconfigurations. *2024 IEEE International Conference on Robotics and Automation (ICRA'24)*. Acceptance Rate 43%

5. **Wang, Y.**, Praveena, P., Rakita, D., Gleicher, M. (2023). RangedIK: An Optimization-Based Robot Motion Generation Method for Ranged-Goal Tasks. *2023 IEEE International Conference on Robotics and Automation (ICRA'23)*. Acceptance Rate 43%

4. **Wang, Y.**, Sifferman C., Gleicher, M. (2023). Exploiting Task Tolerances in Mimicry-based Telemanipulation. *2023 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS'23)*. Acceptance Rate 43%

3. Praveena, P., **Wang, Y.**, Mutlu, B., Gleicher, M. (2023). Periscope: A Robotic Camera System to Support Remote Physical Collaboration. *2023 ACM SIGCHI Conference on Computer-Supported Cooperative Work & Social Computing (CSCW'23)*.

2. Praveena, P., Molina, L., **Wang, Y.**, Senft, E., Mutlu, B., Gleicher, M. (2022). Understanding Control Frames in Multi-Camera Robot Telemanipulation. *2022 ACM/IEEE International Conference on Human-Robot Interaction (HRI'22)*. Acceptance Rate 25%

1. **Wang, Y.**, Ajaykumar, G., and Huang, C.-M. (2020). See What I See: Enabling User-Centric Robotic Assistance Using First-Person Demonstrations. *2020 ACM/IEEE International Conference on Human-Robot Interaction (HRI'20)*. Acceptance Rate 24%

Peer-Reviewed Journal Articles

2. Sifferman C., **Wang, Y.**, Gupta, M. and Gleicher, M. (2023). Unlocking the Performance of Proximity Sensors by Utilizing Transient Histograms. *IEEE Robotics and Automation Letters*

1. Rupal, B.*, Mostafa, K.*, **Wang, Y.***, and Qureshi, A.J. (2019). A Reverse CAD Approach for Estimating Geometric and Mechanical Behavior of FDM Printed Parts. *Procedia Manufacturing*, 34, 535-544. *Equal Contribution

Experiences

Teaching Assistant — August 2020–May 2021
CS559 Computer Graphics & CS400 Programming III, UW-Madison — Madison, WI

Course Assistant — January–May 2019
CS 482/682 Deep Learning, JHU — Baltimore, MD

Research Intern — May–July 2018
China National Engineering Research Center for Healthcare Devices — Guangzhou, China

Summer Research Intern — June–September 2016
University of Alberta — Edmonton, Canada
Mentor: Prof. Ahmed Qureshi

Honors and Awards

CS Departmental Summer RA-ship, University of Wisconsin-Madison — 2021
CS Departmental Scholarship, University of Wisconsin-Madison — 2020
Annual 10 Merit Students, South China University of Technology — 2017
China National Scholarship, Ministry of Education of the P.R. China — 2016
China National Scholarship, Ministry of Education of the P.R. China — 2015

Technical Skills

Programming	C++, Python, Rust, JavaScript, MATLAB, HTML, CSS, LaTeX
Frameworks/Libraries	ROS, MoveIt!, PyTorch, OpenCV, ACADO, Git, Docker, THREE.js, D3.js
Software	Adobe Illustrator, SolidWorks, ANSYS, AutoCAD, and Inventor