

Yeping Wang

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Education

University of Wisconsin–Madison, Madison, WI
Ph.D. in Computer Sciences
Research Advisor: Prof. Michael Gleicher

August 2020 – present
GPA: 3.93/4.0

Johns Hopkins University, Baltimore, MD
M.S.E. in Robotics
Research Advisor: Prof. Chien-Ming Huang

August 2018 – May 2020
GPA: 3.97/4.0

South China University of Technology, Guangzhou, China
B.E. in Mechanical Engineering

September 2014–June 2018
GPA: 3.88/4.0

Publications

Peer-Reviewed Conference Papers

5. **Wang, Y.**, Sifferman C., Gleicher, M. (2024)
IKLink: End-Effector Trajectory Tracking with Minimal Reconfigurations
IEEE International Conference on Robotics and Automation (ICRA'24). Acceptance Rate 43%
4. **Wang, Y.**, Praveena, P., Rakita, D., Gleicher, M. (2023)
RangedIK: An Optimization-Based Robot Motion Generation Method for Ranged-Goal Tasks
IEEE International Conference on Robotics and Automation (ICRA'23). Acceptance Rate 43%
3. **Wang, Y.**, Sifferman C., Gleicher, M. (2023)
Exploiting Task Tolerances in Mimicry-based Telemanipulation
IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS'23). Acceptance Rate 43%
2. Praveena, P., Molina, L., **Wang, Y.**, Senft, E., Mutlu, B., Gleicher, M. (2022)
Understanding Control Frames in Multi-Camera Robot Telemanipulation
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
ACM/IEEE International Conference on Human-Robot Interaction (HRI'20). Acceptance Rate 24%

Peer-Reviewed Journal Articles

5. **Wang, Y.**, Peseckis A., Jiang Z., Gleicher, M. (2024)
Motion Comparator: Visual Comparison of Robot Motions
IEEE Robotics and Automation Letters (RAL, ICRA'25).
4. **Wang, Y.**, Praveena, P., Gleicher, M. (2024)
A Design Space of Control Coordinate Systems in Telemanipulation
IEEE Access
3. Praveena, P., **Wang, Y.**, Mutlu, B., Gleicher, M. (2023)
Periscope: A Robotic Camera System to Support Remote Physical Collaboration
Proceedings of the ACM on Human-Computer Interaction.
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 (RAL, ICRA'24)
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 *Equal Contribution

Experiences

Teaching Assistant CS559 Computer Graphics & CS400 Programming III, UW-Madison	August 2020–May 2021 Madison, WI
Course Assistant CS 482/682 Deep Learning, JHU	January–May 2019 Baltimore, MD
Research Intern China National Engineering Research Center for Healthcare Devices	May–July 2018 Guangzhou, China
Summer Research Intern University of Alberta Mentor: Prof. Ahmed Qureshi	June–September 2016 Edmonton, Canada

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