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

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

ICRA'23
Yeping Wang, Pragathi Praveena, Daniel Rakita, Michael Gleicher (2023)
RangedIK: An Optimization-Based Robot Motion Generation Method for Ranged-Goal Tasks
IEEE International Conference on Robotics and Automation (ICRA). Acceptance Rate 43%

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

HRI'22
Pragathi Praveena, Luis Molina, **Yeping Wang**, Emmanuel Senft, Bilge Mutlu, Michael Gleicher
Understanding Control Frames in Multi-Camera Robot Telemanipulation
ACM/IEEE International Conference on Human-Robot Interaction (HRI). Acceptance Rate 25%

HRI'20
Yeping Wang, Gopika Ajaykumar, and Chien-Ming Huang (2020)
See What I See: Enabling User-Centric Robotic Assistance Using First-Person Demonstrations
ACM/IEEE International Conference on Human-Robot Interaction (HRI). Acceptance Rate 24%

Peer-Reviewed Journal Articles

RAL'24
Yeping Wang, Alexander Peseckis, Zelong Jiang, Michael Gleicher (2024)
Motion Comparator: Visual Comparison of Robot Motions
IEEE Robotics and Automation Letters (RAL, ICRA'25)

IA'24
Yeping Wang, Pragathi Praveena, Michael Gleicher (2024)
A Design Space of Control Coordinate Systems in Telemanipulation
IEEE Access

CSCW'23
Pragathi Praveena, **Yeping Wang**, Bilge Mutlu, Michael Gleicher (2023)
Periscope: A Robotic Camera System to Support Remote Physical Collaboration
Proceedings of the ACM on Human-Computer Interaction

RAL'23
Sifferman C., **Yeping Wang**, Mohit Gupta, Michael Gleicher (2023)
Unlocking the Performance of Proximity Sensors by Utilizing Transient Histograms
IEEE Robotics and Automation Letters (RAL, ICRA'24)

PM'19
Baltej Rupal, Khaled Mostafa, **Yeping Wang**, Ahmed Jawad Quresh (2019)
A Reverse CAD Approach for Estimating Geometric and Mechanical Behavior of FDM Printed Parts
Procedia Manufacturing *Equal Contribution

Experiences

Research Intern   January 2025–Present
Mitsubishi Electric Research Laboratories (MERL)   Cambridge, MA
Mentor: Drs. Stefano Di Cairano and Alexander Schperberg

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

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

Honors and Awards

CS Departmental Summer Fellowship, 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/C++, Python, Rust, JavaScript, MATLAB, HTML, CSS, LaTeX
Frameworks/Libraries	ROS 1/2, PyTorch, Isaac, Mujoco, MoveIt!, ACADO, Git, Docker, THREE.js, D3.js
Software	Adobe Illustrator, SolidWorks, ANSYS, AutoCAD, and Inventor

Referee Service

IEEE International Conference on Robotics and Automation (ICRA)   2024, 2025
Workshop on the Algorithmic Foundations of Robotics (WAFR)   2024
IEEE/ACM International Conference on Human–Robot Interaction (HRI)   2025
IEEE Robotics and Automation Letters (RAL)   2024
IEEE Transactions on Visualization and Computer Graphics (TVCG)   2023