# Yeping Wang

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

## Education

University of Wisconsin-Madison, Madison, WI — August 2020 - May 2026 (expect)
Ph.D. in Computer Sciences — GPA: 3.93/4.0
Research Advisor: Michael Gleicher

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

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

## Experiences

Research Intern — January - April 2025
Mitsubishi Electric Research Laboratories (MERL) — Cambridge, MA
Mentor: Stefano Di Cairano (IEEE Fellow) and Alexander Schperberg
Project: Whole-Body Admittance Control of a Quadruped Manipulator

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: Ahmed Qureshi

## Publications

Peer-Reviewed Conference Papers

ICRA'25 — **Yeping Wang**, Michael Gleicher (2025)
Hierarchically Accelerated Coverage Path Planning for Redundant Manipulators
*IEEE International Conference on Robotics and Automation (ICRA)*. Acceptance Rate 39%

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

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|---|---|
| RAL'25 | **Yeping Wang**, Michael Gleicher (2025)<br>Anytime Planning for End-Effector Trajectory Tracking<br>*IEEE Robotics and Automation Letters (RAL)*. |
| RAL'24 | **Yeping Wang**, Alexander Peseckis, Zelong Jiang, Michael Gleicher (2024)<br>Motion Comparator: Visual Comparison of Robot Motions<br>*IEEE Robotics and Automation Letters (RAL, ICRA'25)* |
| IA'24 | **Yeping Wang**, Pragathi Praveena, Michael Gleicher (2024)<br>A Design Space of Control Coordinate Systems in Telemanipulation<br>*IEEE Access* |
| CSCW'23 | Pragathi Praveena, **Yeping Wang**, Bilge Mutlu, Michael Gleicher (2023)<br>Periscope: A Robotic Camera System to Support Remote Physical Collaboration<br>*Proceedings of the ACM on Human-Computer Interaction* |
| RAL'23 | Sifferman C., **Yeping Wang**, Mohit Gupta, Michael Gleicher (2023)<br>Unlocking the Performance of Proximity Sensors by Utilizing Transient Histograms<br>*IEEE Robotics and Automation Letters (RAL, ICRA'24)* |
| PM'19 | Baltej Rupal, Khaled Mostafa, **Yeping Wang**, Ahmed Jawad Quresh (2019)<br>A Reverse CAD Approach for Estimating Geometric and Mechanical Behavior of FDM Printed Parts<br>*Procedia Manufacturing* *Equal Contribution |

## Honors and Awards

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| Graduate School's Student Research Grant, University of Wisconsin-Madison | 2025 |
| 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

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

## Referee Service

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|---|---|
| IEEE Transactions on Robotics (TRO) | 2025 |
| IEEE International Conference on Robotics and Automation (ICRA) | 2024, 2025 |
| IEEE Transactions on Automation Science and Engineering (T-ASE) | 2025 |
| IEEE/ACM International Conference on Human-Robot Interaction (HRI) | 2025 |
| IEEE International Conference on Automation Science and Engineering (CASE) | 2025 |
| IEEE World Haptics Conference (WHC) | 2025 |
| Workshop on the Algorithmic Foundations of Robotics (WAFR) | 2024 |
| IEEE Robotics and Automation Letters (RAL) | 2024 |
| IEEE Transactions on Visualization and Computer Graphics (TVCG) | 2023 |