

Academic Resume

Name: Haoran Guo Email: jp275417419@gmail.com
Google Scholar: <https://scholar.google.com/citations?user=XBjgSfQAAAAJ&hl>
Age: 25 Interest: Tactile sensor; Human Robot Interaction; Dexterous Manipulation



Education Background

2019.09- 2023.06	Wuhan University of Technology(CN)	Major: Automation	B. Eng
2022.12- 2023.05	Westlake University(CN)	Research: Nano Processing	Visiting
2024.08- 2025.12	Oklahoma State University(USA) CEAT	Major: Robotic	M.S.
2026.03- Now	ShanghaiTech University(CN) SIST	Major: Electronic Science	Ph.D.

Skill: Sensor Design, Reinforcement Learning, Robot Control, Isaac Lab
Undergraduate GPA: 81.5/100 Graduate GPA: 3.85/4 TOEFL-90 TA&RA (USA, China)

Research Experience

- “Intelligent Leg Exoskeleton Prosthesis” PI 2020.12 – 2022.9 Evaluate as Excellent**
China College Student Innovation and Entrepreneurship Training Program Grant #S202110497234
 - Designed a smart, bionic leg exoskeleton that could be used by people with disabilities
 - Made research about a wireless group control sensor to accurately detect human motion data in real time
- “Impact of Tactile Sensor Quantities and Placements on Robotic Hand” 2024.02 – 2026.03**
 - Explore the impact of tactile sensor of Shadow Hand under Mujoco and OpenAI Gym Simulation
 - Evaluate the optimized sensor configuration and anti-interference ability under several tasks
- “Multi-Modal Thermostatic Tactile Sensor” 2024.10 – Now**
 - Developed a multi-modal tactile sensor with normal/shear force sensing and temperature regulation
 - Complete grasping tasks on Allegro Hand with this tactile sensor

Scientific Research Outcome

- China Invention patent** “[A kind of leg exoskeleton prosthesis for the disabled](#)” CN202010987051.3
- IEEE ICARM 2022** “[Reliability Verification of Human Motion Data Based on SlimeVR](#)” **First Author**
- IROS 2026** “[Learning with Less: Optimizing Tactile Sensor Configurations for Dexterous Manipulation](#)” **Accept First Author**
- IROS 2025** “[Bio-Skin: A Cost-Effective Thermostatic Tactile Sensor with Multi-Modal Force and Temperature Detection](#)” **First Author** DOI: 10.1109/IROS60139.2025.11246501
- IROS 2025** “[Adaptive Anomaly Recovery for Telem Manipulation: A Diffusion Model Approach to Vision-Based Tracking](#)” **Second Author** DOI: 10.1109/IROS60139.2025.11247365
- ICRA 2026** “[Bi-directional Momentum-based Haptic Feedback and Control System for Dexterous Telem Manipulation](#)” **Accept Second Author**

Award & Funding

- National college student life science competition **National Third Prize**
- Excellent Graduate and Graduation Design
- Fully funded Research/Teaching Assistant in Oklahoma State University (**70,000USD, 2024-2025**)