

# **Yidong Jiang**

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## **Education**

<b>University of Wisconsin – Madison, WI, United States</b> Visiting International Student, Advisor: Prof. <a href="#">Xiaobin Xiong</a> Research Areas: Humanoid Robotics, Whole-body Control and Teleoperation	Aug. 2025 - Expected Jun. 2026
<b>McMaster University, Ontario Canada</b> Summer Visiting Student, Advisor: Prof. <a href="#">Rong Zheng</a> Research Areas: Mobile Computing, Machine Learning for Health	Jun. 2024 - Sep. 2024
<b>University of Science and Technology of China, Hefei, China</b> Bachelor of Science in Data Science, Advisor: Prof. <a href="#">Yanyong Zhang</a> (IEEE Fellow) Research Areas: Perception, UAV Estimation and Control <b>Core Courses:</b> Computer programming (A); Electromagnetism (A); Complex Analysis (A-); Summer Internship (A); Machine Learning (A-); Deep Learning (A-)	Sep. 2022 - Expected Jul. 2026

## **Research Experience**

<b>Whole-Body Robot Teleoperation via Vive VR</b> Advisor: Prof. <a href="#">Xiaobin Xiong</a> (ME, UW-Madison)	Aug. 2025 - Present
<ul style="list-style-type: none"> <li>Developed a teleoperation platform, enabling real-time human–robot control and data collection.</li> <li>Achieved low-latency, high-synchronization performance between human motion and robotic execution.</li> <li>Currently extending the system to whole-body teleoperation, using Vive-G1 for motion mapping.</li> <li>Open-sourced the whole body teleoperation code on GitHub for public use and reproducibility. <a href="#">[code]</a></li> </ul>	
<b>3D-UKF-Based Multi-Drone Tracking for Noised Environment UAV Perception</b> Advisor: Prof. <a href="#">Yanyong Zhang</a> (Computer Science, USTC)	Sep. 2024 - Jul. 2025
<ul style="list-style-type: none"> <li>This project involved reducing environmental noise and creating a 3D-IMM-UKF frame to track drones.</li> <li>The proposed method improved the signal-to-noise ratio (SNR), leading to higher UAV detection rates and accuracy.</li> <li>Core contributor to <b><i>BSense: Wide-Area UAV Detection and Localization with 5G-Advanced Base Station</i></b>. Submitted to MobiCom 2026, September 3, 2025.</li> </ul>	
<b>Radar-Based Sleep Safety and Health Monitoring Using Machine Learning</b> Advisor: Prof. <a href="#">Rong Zheng</a> (Computing and Software, McMaster University)	Jun. 2024 - Present
<ul style="list-style-type: none"> <li>Leading author. Designed a radar-based system for sleep monitoring using machine learning.</li> <li>Processed heart rate, respiration, and motion signals to classify sleep stages via a rule-based decision tree</li> <li>Currently in preparation for journal submission.</li> </ul>	
<b>Monte Carlo Tree Search for Strategic Card Game Optimization</b> Advisor: Prof. <a href="#">Kani Chen</a> (Financial Mathematics, HKUST)	May 2024 - Sep. 2024
<ul style="list-style-type: none"> <li>Developed an AI agent for the strategic card game Guandan, integrating the gameplay logic with an interactive teaching platform</li> <li>Designed and implemented a Deep Monte Carlo–based reinforcement learning framework to learn optimal strategies and handle complex multi-agent decision-making.</li> <li>Achieved a 70% win rate against human players and analyzed scalability challenges facing the Monte Carlo Tree Search in high-dimensional combinatorial action spaces.</li> </ul>	

## **Skills**

Computer Skills: C; C++; Python (PyTorch); Compiler; Latex; ROS2  
English Proficiency: TOEFL 95 (R 28; L 22; S 23; W 22;)  
Active on GitHub and Huggingface

## **Awards**

USTC Fellowship (Top 25%)	2024
Best Improvement Scholarship (Top 30%)	2023
Outstanding Freshman Scholarship	2022