

Yidong Jiang

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Education

University of Wisconsin - Madison, WI United States Visiting International Student Advisor: Prof. Xiaobin Xiong , Humanoid Robotics	Aug. 2025 - expected Jun. 2026
Macmaster University, Ontario Canada Summer Visiting Student Advisor: Prof. Rong Zheng , Mobile Computing	Jun. 2024 - Sep. 2024
University of Science and Technology of China, Hefei China Bachelor of Science in Data Science Advisor: Prof. Yanyong Zhang (IEEE Fellow), Perception	Sep. 2022 - expected Jul. 2026

Core Courses: Computer programming (A); Electromagnetism (A); Complex Analysis (A-); Summer Internship (A); Machine Learning (A-); Deep Learning (A-)

Research Experience

Online Whole-Body Robot Teleoperation via Piper – Vive Integration Advisor: Prof. Xiaobin Xiong (ME, UW - Madison) <ul style="list-style-type: none">Built an online teleoperation platform using Piper and Vive, enabling real-time robot control and data collection.Achieved low latency and high synchronization between human motion and robotic execution.Open-sourced the system on GitHub for public use and reproducibility. [code]	Aug..2025 - Present
3D-UKF-Based Multi-Drone Tracking for noised environment UAV Perception Advisor: Prof. Yanyong Zhang (Computer Science, USTC) <ul style="list-style-type: none">This project involves reduce environmental noise and creating a 3D-UKF structure and using IMM-UKF to track drones.The proposed method improves the signal-to-noise ratio (SNR), leading to higher UAV detection rates and accuracy.Core contributor of <i>BSense: Wide-Area UAV Detection and Localization with 5G-Advanced Base Station</i>. Submitted to MobiCom 2026, September 3, 2025.	Spt. 2024 - Jul. 2025
Radar-Based Sleep Safety and Health Monitoring Using Machine Learning Advisor: Prof. Rong Zheng (Computing and Software, McMaster University) <ul style="list-style-type: none">Leading author. Designed and developed a radar-based system for sleep mnitoring using machine learning, reducing reliance on wearable sensors.Processed heart rate, respiration, and motion signals to classify sleep stages via a rule-based decision treePreparing for journal submission.	Jun. 2024 - Present
Monte Carlo Tree Search for Strategic Card Game Optimization Advisor: Prof. Kani Chen (Financial Mathematics, HKUST) <ul style="list-style-type: none">Developed an AI agent for the strategic card game Guandan, integrating teaching and gameplay.Designed a reinforcement learning framework based on the Deep Monte Carlo model to learn optimal strategies and adapt to complex multi-agent interactions.Achieved a win rate of 70%, demonstrating strong performance in high-dimensional decision spaces.Explored Monte Carlo Tree Search for improved adaptability, revealing scalability challenges inherent to high-dimensional combinatorial games	May 2024 - Sept. 2024

Skills

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

Awards

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