

# Yidong Jiang

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## Education

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

## Research Experience

<b>Online Whole-Body Robot Teleoperation via Pipe-Vive Integration</b>	Aug..2025 - Present
Advisor: Prof. <a href="#">Xiaobin Xiong</a> (ME, UW - Madison)	
<ul style="list-style-type: none"><li>Developed a teleoperation platform integrating Vive VR and a Piper robotic arm, 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 on Vive-G1 for motion mapping.</li><li>Open-sourced the arm 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>	Spt. 2024 - Jul. 2025
Advisor: Prof. <a href="#">Yanyong Zhang</a> (Computer Science, USTC)	
<ul style="list-style-type: none"><li>This project involves reduce environmental noise and creating a 3D-UKF structure and using IMM-UKF to track drones.</li><li>The proposed method improves the signal-to-noise ratio (SNR), leading to higher UAV detection rates and accuracy.</li><li>Core contributor of <i>BSense: Wide-Area UAV Detection and Localization with 5G-Advanced Base Station</i>. Submitted to MobiCom 2026, September 3, 2025.</li></ul>	
<b>Radar-Based Sleep Safety and Health Monitoring Using Machine Learning</b>	Jun. 2024 - Present
Advisor: Prof. <a href="#">Rong Zheng</a> (Computing and Software, McMaster University)	
<ul style="list-style-type: none"><li>Leading author. Designed and developed a radar-based system for sleep mnnitoring using machine learning, reducing reliance on wearable sensors.</li><li>Processed heart rate, respiration, and motion signals to classify sleep stages via a rule-based decision tree</li><li>Preparing for journal submission.</li></ul>	
<b>Monte Carlo Tree Search for Strategic Card Game Optimization</b>	May 2024 - Sept. 2024
Advisor: Prof. <a href="#">Kani Chen</a> (Financial Mathematics, HKUST)	
<ul style="list-style-type: none"><li>Developed an AI agent for the strategic card game Guandan, integrating teaching and gameplay.</li><li>Designed a reinforcement learning framework based on the Deep Monte Carlo model to learn optimal strategies and adapt to complex multi-agent interactions.</li><li>Achieved a win rate of 70%, demonstrating strong performance in high-dimensional decision spaces.</li><li>Explored Monte Carlo Tree Search for improved adaptability, revealing scalability challenges inherent to high-dimensional combinatorial games</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 in Github and Huggingface

## Awards

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