

# Jiaxin Chen

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## EDUCATION

<b>Wuhan University</b>	Wuhan, China
<ul style="list-style-type: none"><li><i>Bachelor of Science in Remote Sensing Science and Technology</i></li></ul> <i>GPA: 3.66/4.00, CET4: 615, CET6: 494</i>	<i>Sep 2023 - Sep 2027</i>

## HONORS AND AWARDS

- First prize in 24th ROBOCON(Asia-Pacific Broadcasting Union Robot Contest) in July, 2025.
- Meritorious Award in Interdisciplinary Contest In Modeling in May, 2025.
- First prize in Cloud Computing Track of the 9th Huawei ICT Competition Practice Race in April, 2025.

## ACADEMIC EXPERIENCE

- Reinforcement Learning for Legged Robots (Algorithm Development and Innovation):**
  - Algorithm Reproduction and Model Adaptation:** Reproduced "Extreme Parkour with Legged Robots" algorithm using Isaac Gym's Legged Gym framework, adapting custom quadruped URDF models and optimizing reward functions for multi-gait training.
  - Multimodal System Development:** Integrated depth camera sensing modules into DreamWaQ reinforcement learning framework, developing multimodal training system that fuses external environmental perception with proprioceptive state feedback through cross-modal feature extraction networks.
- Robotics Engineering and Control Systems (Software Development and Debugging):**
  - Embedded Software Development and System Integration:** Developed embedded software for core robot motion control, ensuring precise movement behavior and system reliability. Following extensive year-long preparations, exceptional achievements were attained in ROBOCON(Aug 2024 - Jul 2025).
  - Bionic Foot Robot Control and Algorithm Development:** Led the Electric Control Group at ROBOCON WHU, responsible for motion control and gait algorithm development of quadruped robot. Designed and implemented bionic locomotion patterns and debugging protocols for advanced robotic systems.
- Mathematical Modeling (Programming and Research):** Led programming and research in multiple competitions using MATLAB, Python, and LaTeX. Achieved ICM Meritorious Award (2025), Provincial 1st Prize (Huazhong Cup, 2025), and National 2nd Prize (CSEE Cup, 2025) through optimization frameworks and traffic analysis models.
- Remote Sensing Research and Analysis (Data Processing and Leadership):** Led photovoltaic panel change detection projects using Landsat/Sentinel data and random forest methods for spatial-temporal analysis in Inner Mongolia. Organized comprehensive remote sensing fieldwork including digital mapping and spectral data acquisition as team leader (May - Sep, 2024).

## EXTRACURRICULAR ACTIVITIES

<b>ROBOCON WHU</b>	Wuhan University
<ul style="list-style-type: none"><li><i>Head of the Electric Control Group</i></li></ul>	<i>August 2024 - Current</i>
<b>Machine Intelligence Laboratory(MiLAB)</b>	Westlake University
<ul style="list-style-type: none"><li><i>Visiting Student</i></li></ul>	<i>Jul 2025 - Sep 2025</i>
<b>Student Union</b>	School of Remote Sensing and Info. Engineering
<ul style="list-style-type: none"><li><i>Head of the Secretariat</i></li></ul>	<i>Jul 2024 - Jul 2025</i>