Kaiyue Chen

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EDUCATION

Xi'an Jiaotong-Liverpool University, Suzhou, Jiangsu, China Sep 2024-Jul 2028 (expected)

Bachelor of Mechatronics and Robotic Systems

GPA (Year 1): **3.80/4.0**.

Core courses: Linear Algebra, Calculus (Mathematical Sciences), C Programming and Software Engineering

Xi'an Jiaotong-Liverpool University Excellent Student Cadre May 2025

RESEARCH EXPERIENCES

Task assignment and navigation of AGV clusters

Research Assistant**,** Xi'an Jiaotong-Liverpool University Mar 2024 - Present

Advisor: **Xinheng Wang** (Professor of Mechatronics and Robotics Department, Xi'an Jiaotong-Liverpool University)

- Designed the chassis of the AGV to adapt the airport scene with Solidworks.
- Applied ROS2 to encapsulate the reinforcement learning algorithm and used the car to verify.
- Utilized Gazebo simulation platform for SLAM mapping and navigation.

Deep learning natural language processing On-line

Research Assistant, Massachusetts Institute of Technology Sep 2025 - Nov 2025

- Detected fake news by using NLP.
- Utilized Natural Language Processing to pre-process news data with Word2Vec.
- Applied Convolutional Neural Networks to Capture local features.

COMPETITION EXPERIENCE

Baidu Service Robot Competition (with ROS, C++) Suzhou, China

The 27th National Finals of China Robot and Artificial Intelligence Competition Aug 2025

Team Member, coached by Professor Eng Gee Lim (IEEE Fellow)

- Optimized the SLAM algorithm to adapt to the random restaurant catering environment.
- Trained restaurant food image data using Yolo for object detection.
- Controlled the service robot with ROS1 and obtained visual data.

SKILLS AND OTHERS

Programming skills: Python, C programming, C++

Computer: Microsoft offices (PowerPoint, Word, Excel), Solidworks, Autodesk Fusion

Language: Mandarin Chinese (Native), English (Fluent)

Robotics: Digital Twin, Deep Reinforcement Learning, ROS1, ROS2(ROS Summer School, ZJU)，Isaac-sim

Interests: Basketball, Billiards, Travel, Lego