

# Xianjie Shi

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## RESEARCH INTERESTS

My research interests mainly include reinforcement learning, multi-agent system, and robotics.

## EDUCATION

### Nanjing University

2020 - Present

**BSc. in Computer Science and Technology (National Elite Program of Computer Science) GPA:4.35/5.00**

**Course:** Mathematical Logic (97/100); Multi-Agent Systems (92/100); Introduction to Machine Learning (91.1/100)

## EXPERIENCE

### LAMDA GROUP, NANJING UNIVERSITY

Sept. 2022 - Nov. 2022

**TrafficLightControl - Automatic Traffic Light Control System Based on Reinforcement Learning ( Advised by Prof. Zongzhang Zhang)**

- This is a project participating in “Artificial Intelligence +” Competition.
- The difficulty of real-life traffic light control problems lies in the huge network structure and complex traffic flow. Traditional rule-based planning methods are not good enough to deal with these features. Among the traditional learning algorithms, Deep Q-Learning has a good performance in dealing with large-scale decision-making tasks, and Graph Attention Network has a good representation ability for the two-dimensional network structure, so we combine the two to solve this practical problem.

## SKILLS

**Technical skills:** C/C++, Python,  $\text{\LaTeX}$ , linux, Pytorch

**Languages:** English - IELTS 7.0

## AWARDS

**"Artificial Intelligence +" contest final (second prize)**

Nov. 2022

**2021 - 2022 People Scholarship (Social Work Award)**

Nov. 2022

**2020 - 2021 People Scholarship (Social Work Award)**

Nov. 2021