

# XIHUAI WANG

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[Google Scholar](#)



## RESEARCH INTERESTS

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Xihuai's research interests include *Reinforcement Learning* and *Multi-agent System*. Specifically, he is now focusing on

- Multi-agent Reinforcement Learning in Cooperative Scenarios;
- Large Language Models for Reinforcement Learning.

## EDUCATION

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**Shanghai Jiaotong University**

*Sep. 2020 - present*

Doctor of Philosophy in Computer Science and Technology (expected July, 2025)

Advisor: Prof. Weinan Zhang

**Sun Yat-sen University**

*Sep. 2016 - July. 2020*

Bachelor of Engineering in Computer Science and Technology

Advisor: Prof. Liang Lin

## PUBLICATIONS

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**Order Matters: Agent-by-agent Policy Optimization**

Xihuai Wang, Zheng Tian, Ziyu Wan, Ying Wen, Jun Wang, Weinan Zhang

In The Eleventh International Conference on Learning Representations, ICLR 2023.

**Model-based Multi-agent Policy Optimization with Adaptive Opponent-wise Rollouts**

Zhang Weinan, Wang Xihuai, Shen Jian, Zhou Ming.

Proceedings of the Thirtieth International Joint Conference on Artificial Intelligence, IJCAI 2021.

## PREPRINTS

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**Model-based Multi-agent Reinforcement Learning: Recent Progress and Prospects**

Xihuai Wang, Zhicheng Zhang, and Weinan Zhang.

<https://arxiv.org/abs/2203.10603>.

## RESEARCH INTERNSHIPS

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**Shanghai Digital Brain Lab**

*Apr. 2022 - Present*

*Intern Researcher*

Game AI research.

Large Language Models research.

**Tencent AI Platform**

*July. 2020 - Jan. 2021*

*Intern Researcher*

Game AI research.

## **AWARDS & HONORS**

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Wenjun Wu Honored Ph.D. Class, 2020 - Present.

National Scholarship, 2017 - 2018 Academic Year.

National Scholarship, 2016 - 2017 Academic Year.