

# Yiming WANG

Ph.D student

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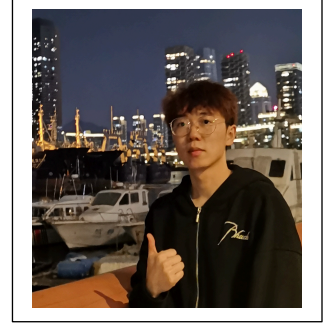
**State Key Laboratory of Internet of Things for Smart City**

Department of Computer Information Science,

Faculty of Science and Technology,

University of Macau,

N21, University of Macau (UM), Avenida da Universidade, Taipa, Macau, China



## EDUCATION BACKGROUND

### Harbin Institute of Technology

09/2016-06/2020

- B.S. in Information and Computing Science
- GPA 88.96/100

### University of Macau

09/2020-06/2022

- M.S. in Data Science
- GPA 95.27/100
- Intelligent Transportation research group in **State Key Laboratory** of Internet of Things for Smart City

### University of Macau

09/2022-Present

- Ph.D. of Computer Science
- Top 35 University in Asia, Top 180 University in the world
- Intelligent Transportation research group in **State Key Laboratory** of Internet of Things for Smart City

## PAPER/RESEARCH

(1) **Yiming WANG**, Kaiyan ZHAO, Furui LIU and Leong Hou U Rethinking Exploration in Reinforcement Learning with Effective Metric-Based Exploration Bonus. NeurIPS 2024

(2) **Yiming WANG**, Ming YANG, Binbin SUN, Furui LIU, and Leong Hou U Efficient potential-based exploration in reinforcement learning using inverse dynamic bisimulation metric. NeurIPS 2023

(3) **Yiming WANG**, Kaiyan Zhao, Ming YANG, Yan LI, Furui LIU and Leong Hou U COGITATION: Enhancing Generalization in Goal-conditioned Reinforcement Learning. AAAI under review 2024

(4) **Yiming WANG**, Kaiyan Zhao, Shenghui ZHANG, Furui LIU and Leong Hou U Bisimulation-based Latent Exploration for Deep Reinforcement Learning. AAAI under review 2024

(5) **Yiming WANG**, Kaiyan Zhao, Yuyang CHEN, Xiaoguang Niu, Leong Hou U Efficient Diversity-based Experience Replay for Deep Reinforcement Learning. CoRR 2024

(6) **Yiming WANG**, Ming YANG, Furui LIU, Leong Hou U, Yali DU Causal-Graph Based Intrinsic Motivation for Reinforcement Learning. JAAMAS (major revision) 2024

(7) Ming YANG, Kaiyan ZHAO, **Yiming WANG**, Yali DU, Furui LIU, Leong Hou U Team-wise effective communication in multi-agent reinforcement learning. AAMAS 2024

(8) Yuyang Chen, Kaiyan ZHAO, **Yiming WANG**, Ming Yang, Xiaoguang Niu Enhancing LLM Agents for Code Generation with Possibility and Pass-rate Prioritized Experience Replay CoRR 2024

(9) Ming YANG, **Yiming WANG**, Leong Hou U, Yali DU TieComm: Multi-agent Cooperative Reinforcement Learning Method based on Ties Theory. DASFFA 2023

(10) Ming YANG, **Yiming WANG**, Leong Hou U, Mingliang ZHOU, Yang YU MixLight: Mixed-agent Cooperative Reinforcement Learning for Traffic Light Control. IEEE Transactions on Industrial Informatics 2023

## **ACADEMIC SERVICES**

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**Top Tier Conference Reviewer:** ICML, NeurIPS, AAAI, IJCAI, ICDE, DASFFA, ICECCME

**Jurnal Reviewer:** TMLR, IEEE RA-L, IEEE TNNLS, IEEE T-ITS, IEEE T-IV, IEEE Access, IEEE TII, IEEE MM, AJCST

## **TEACHING ASISTANT**

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- CISC7201 Introduction to Data Science Programming
- CISC7022 Big Data Processing and Analysis
- CISC7022 Introduction to Reinforcement Learning

## **PROFESSIONAL EXPERIENCE**

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**Guangdong Institute of Intelligence Science and Technology**

08/2024 - Now

*Research Intern*

Supervised by Prof. Yimin Wang

AI for biological

**BoardWare Intelligence Technology Limited.**

07//2021 – 10/2021

*Research Assistant*

Supervised by Prof. Ryan Leong Hou U

Reinforcement Learning-based Traffic Light Control

## **AWARDS AND HONORS**

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First Prize Award of 8th Greater Bay Area IT Application System Development Competition 12/2023

Third Prize Poster Award of MCSCT 11/2023

NeurIPS Scholar Award 09/2023

UM PhD Full Funding 09/2022-09/2026

Full Master Funding Scholarship 09/2021&09/2020

Honorable mention in Mathematical Contest in Modeling U.S (MCM) 02/2019

Learning Excellence Scholarship of HIT 11/2019

Learning Excellence Scholarship of HIT 11/2018

## **LANGUAGE/ADDITIONALS**

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English Language: IELTS band:7.0

Chinese Language: Native proficiency

Programming Skills: Python, C++, Pytorch