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,

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



EDUCATION BACKGROUND

Harbin Institute of Technology

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

University of Macau

09/2020-06/2022

09/2016-06/2020

- 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 193 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. AAAI under review 2024
- (6) **Yiming WANG**, Ming YANG, Furui LIU, Leong Hou U, Yali DU Causal-Graph Based Intrinsic Motivation for Reinforcement Learning. JAAMAS under review 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) Ming YANG, **Yiming WANG**, Leong Hou U, Yali DU TieComm:Multi-agent Cooperative Reinforcement Learning Method based on Ties Theory. DASFFA 2023
- (9) 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

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

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

PROFESSINAL EXPERIENCE

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

| First Prize Award of 8th Greater Bay Area IT Application System Development Competition | 12/2023 |
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| Third Prize Poster Award of MCSCT | 11/2023 |
| NeurIPS Scholar Award | 09/2023 |
| UM PhD Full Funding 09/202 | 22-09/2026 |
| <u> </u> | 1&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

English Language: IELTS band:7.0 Chinese Language: Native proficiency Programming Skills: Python, C++, Pytorch