Yiming WANG

Ph.D student
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+86 17863032138(Mainland, China)
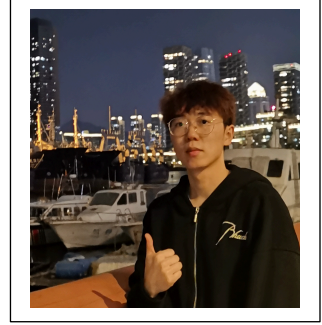**State Key Laboratory of Internet of Things for Smart City**
Department of Computer Information Science,
Faculty of Science and Technology,
University of Macau,
N21, University of Macau (UM), Avenida da Universidade, Taipa, Macau, China

EDUCATION BACKGROUND

Harbin Institute of Technology (985 project, C9 project)   09/2016-06/2020
- B.S. in Information and Computing Science
- GPA 88.96/100 (top 5%)

University of Macau   09/2020-06/2022
- M.S. in Data Science
- GPA 95.27/100(top 3%)
- 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. arXiv 2024

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

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

(6) **Yiming WANG,** Ming YANG, Furui LIU, Leong Hou U, Yali DU Causal-Graph Based Intrinsic Motivation for Reinforcement Learning. AAMAS 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*
Third Prize Poster Award of MCSCT	*11/2023*
NeurIPS Scholar Award	*09/2023*
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

English Language: IELTS band:7.0
Programming Skills: Python, C++, Pytorch, Code framework of RL (e.g. stable-baselines3)