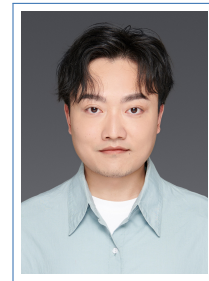


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个人简历

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“是什么神奇的技巧让我们拥有智慧？这个技巧就是没有技巧。智慧的力量源于个体浩瀚的多样性，而不是任何单一、完美的原则。”
——马文·明斯基 (图灵奖得主, 人工智能先驱), 《心智社会》。

工作现状

- 06/2022- 博士后研究员, 香港中文大学, 深圳, 中国, 工作导师: 查宏远, 杜俊 (中国科学技术大学).
- 06/2022- 助理研究员, 机器学习中心, 人工智能与机器人研究院, 深圳, 中国.

教育经历

- 2019-2022 博士, 计算机科学与技术, 华东师范大学, 上海, 中国, 导师: 周爱民, 查宏远.
- 2016-2019 硕士, 软件工程, 华东师范大学, 上海, 中国, 导师: 查宏远.
- 2007-2010 学士, 计算机科学与技术, 兰州大学, 兰州, 中国.

研究经历

- 2019&2022 研究助理, 香港中文大学 (9 个月), 深圳, 中国, 导师: 查宏远, 王昀翔.
- 06/2020 研究实习, 腾讯人工智能实验室 (3 个月), 深圳, 中国.
工作导师: 罗迪君. 多智能体强化学习在精准农业上的应用.
- 12/2019 研究实习, 极智嘉科技股份有限公司 (6 个月, 远程), 北京, 中国.
工作导师: 谭文哲. 多智能体强化学习在路径规划上的应用.
- 06/2018 研究实习, 格灵深瞳信息技术股份有限公司 (6 个月), 合肥, 中国.
工作导师: 张明, 学术导师: 张德兵. 强化学习在自动化标注上的应用.

荣誉奖项

- 2023 优秀博士论文奖提名奖, 上海市计算机学会.
- 2022 上海市优秀研究生毕业生, 上海市教育委员会.
- 2021 AAMAS 2021 博士奖学金, AAMAS 2021 组委会.
- 2016 兰州大学优秀毕业生, 兰州大学.

学术成果

期刊论文

- [J4] **Flexible Fully-Decentralized Approximate Actor-Critic for Cooperative Multi-Agent Reinforcement Learning.**
Wenhao Li, Bo Jin, Xiangfeng Wang, Junchi Yan, Hongyuan Zha.
Journal of Machine Learning Research, (JMLR, CCF-A), 24.178: 1-75, 2023, 长文 (75 页).

- [J3] **Structured Cooperative Reinforcement Learning with Time-varying Composite Action Space.**
Wenhao Li, Xiangfeng Wang, Bo Jin, Dijun Luo, Hongyuan Zha.
IEEE Transactions on Pattern Analysis and Machine Intelligence, (TPMAI, CCF-A), 44.11: 8618-8634, 2022.
影响因子: 24.314。
- [J2] **Distributed and Parallel ADMM for Structured Nonconvex Optimization Problem.**
Xiangfeng Wang, Junchi Yan, Bo Jin, Wenhao Li.
IEEE Transactions on Cybernetics, (TCYB, SCI-Q1), 51.9: 4540-4552, 2019. 影响因子: 19.118。
- [J1] **Learning Structured Communication for Multi-Agent Reinforcement Learning.**
Junjie Sheng, Xiangfeng Wang, Bo Jin, Junchi Yan, Wenhao Li, Tsung-Hui Chang, Jun Wang, Hongyuan Zha.
Journal of Autonomous Agents and Multiagent Systems, (JAAMAS, CCF-B), 36.2: 50, 2022.
- [会议论文](#)
- [C11] **Hierarchical Diffusion for Offline Decision Making.**
Wenhao Li, Xiangfeng Wang, Bo Jin, Hongyuan Zha.
International Conference on Machine Learning (ICML, CCF-A), 202:20035-20064, 2023.
- [C10] **Dealing with Non-Stationarity in Multi-Agent Reinforcement Learning via Trust Region Decomposition.**
Wenhao Li, Xiangfeng Wang, Bo Jin, Junjie Sheng, Hongyuan Zha.
International Conference on Learning Representations (ICLR, TH-CPL-A), 2022.
- [C9] **Information Design in Multi-Agent Reinforcement Learning.**
Yue Lin, Wenhao Li, Hongyuan Zha, Baoxiang Wang.
Conference on Neural Information Processing Systems (NeurIPS, CCF-A), 2023.
- [C8] **Iteratively-Refined Interactive 3D Medical Image Segmentation with Multi-Agent Reinforcement Learning.**
Xuan Liao, Wenhao Li, Qisen Xu, Xiangfeng Wang, Bo Jin, Xiaoyun Zhang, Yanfeng Wang, Ya Zhang.
The IEEE / CVF Computer Vision and Pattern Recognition Conference (CVPR, CCF-A), 2020.
- [C7] **VMAgent: Scheduling Simulator for Reinforcement Learning.**
Sheng, Junjie, Shengliang Cai, Haochuan Cui, Wenhao Li, Yun Hua, Bo Jin, Wenli Zhou et al.
International Joint Conference on Artificial Intelligence (IJCAI, CCF-A), 2022.
- [C6] **HMRL: Hyper-Meta Learning for Sparse Reward Reinforcement Learning Problem.**
Yun Hua, Xiangfeng Wang, Bo Jin, Wenhao Li, Junchi Yan, Xiaofeng He, Hongyuan Zha.
International Conference on Knowledge Discovery and Data Mining (KDD, CCF-A), 2021.
- [C5] **Diverse Policy Optimization for Structured Action Space.**
Wenhao Li, Baoxiang Wang, Shanchao Yang and Hongyuan Zha.
International Conference on Autonomous Agents and Multiagent Systems (AAMAS, CCF-B), Oral, 819–828, 2023.
- [C4] **Model-Based RL for Auto-Bidding in Display Advertising.**
Shuang Chen, Qisen Xu, Liang Zhang, Yongbo Jin, Wenhao Li and Linjian Mo.
International Conference on Autonomous Agents and Multiagent Systems (AAMAS, CCF-B), Corresponding author, Oral, 1560–1568, 2023.
- [C3] **Structured Diversification Emergence via Reinforced Organization Control and Hierarchical Consensus Learning.**
Wenhao Li, Xiangfeng Wang, Bo Jin, Junjie Sheng, Yun Hua, Hongyuan Zha.
International Conference on Autonomous Agents and Multiagent Systems (AAMAS, CCF-B), Oral, 2021.

[C2] **Multi-Agent Path Finding with Prioritized Communication Learning.**
Wenhao Li*, Hongjun Chen*, Bo Jin, Wenzhe Tan, Hongyuan Zha and Xiangfeng Wang.
International Conference on Robotics and Automation (**ICRA, CCF-B**), 2022.

[C1] **Learning Optimal “Pigovian Tax” in Sequential Social Dilemmas.**
Yun Hua, Shang Gao, Wenhao Li, Bo Jin, Xiangfeng Wang and Hongyuan Zha.
International Conference on Autonomous Agents and Multiagent Systems (**AAMAS, CCF-B**), 2023.

基金项目

主持

2022 **第 72 批博士后面基金 (2022-2024)**, 2022M723039, 面向高维图结构化动作空间的强化学习策略优化算法研究, 中国博士后科学基金委员会.

参与

2021 **科技创新 2030-“新一代人工智能”重大项目 (2021-2023)**, SQ2020AAA010017, 结构自适应自演化的高级机器学习方法研究, 科技部.

2020 **科技创新行动计划人工智能科技支持专项 (2020-2022)**, 20511101100, 面向多模态医学数据开放共享的数据治理解决方案, 上海市科学技术委员会.

学术活动

期刊/会议审稿人

2023 IEEE Transactions on Intelligent Vehicles (T-IV)

2023 IEEE Transactions on Emerging Topics in Computational Intelligence (T-ETCI)

2023 International Conference on Neural Information Processing Systems (NeurIPS), **杰出审稿人**

2021-2023 International Conference on Autonomous Agents and Multiagent Systems (AAMAS)

2022-2023 International Conference on Learning Representations (ICLR)

报告和演讲

受邀报告

08/2023 **Cooperative Multi-Agent Reinforcement Learning: Theories, Algorithms and Applications**, 中国科学技术大学 & 同济大学 & 上海财经大学.

06/2023 **Generative Models in Reinforcement Learning**, 复旦大学类脑智能科学与技术研究院, 中国上海.

01/2022 **Structured Diversification Emergence via Reinforced Organization Control and Hierarchical Consensus Learning**, 分布式人工智能大会, 2021, 中国上海.

会议演讲

07/2023 **Hierarchical Diffusion for Offline Decision Making**, ICML.

06/2023 **Diverse Policy Optimization for Structured Action Space**, AAMAS.

06/2023 **Model-Based Reinforcement Learning for Auto-Bidding in Display Advertising**, AAMAS.

05/2022 **Multi-Agent Path Finding with Prioritized Communication Learning**, ICRA.

05/2021 **Structured Diversification Emergence via Reinforced Organization Control and Hierarchical Consensus Learning (virtual)**, AAMAS.