

# Yang Li 李阳

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## EDUCATION EXPERIENCE

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### University of Manchester

*PhD student in Computer Science*

UK

*Supervised by Wei Pan; Sep 2022 –*

### University of Chinese Academy of Sciences

*M.Sc. in Information and Communication Engineering*

China

*Supervised by Jun Wang, Yang Yang; Sep 2019 – Jun 2022*

### Dalian University of Technology

*B.Sc. in Digital Media Technology*

China

*Sep 2015 – Jun 2019*

## RESEARCH EXPERIENCE

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### Research Paper

- **Yang Li**, Wenhao Zhang, Jianhong Wang, Shao Zhang, Yali Du, Ying Wen, and Wei Pan. "Aligning Individual and Collective Objectives in Multi-Agent Cooperation." arXiv preprint arXiv:2402.12416 (2024).
- Jianhong Wang, **Yang Li**, Yuan Zhang, Wei Pan, and Samuel Kaski. "Open Ad Hoc Teamwork with Cooperative Game Theory." arXiv preprint arXiv:2402.15259 (2024).
- **Yang Li**, Shao Zhang, Jichen Sun, Wenhao Zhang, Yali Du, Ying Wen, Xinbing Wang, and Wei Pan. "Tackling cooperative incompatibility for zero-shot human-ai coordination." arXiv preprint arXiv:2306.03034 (2023). Submitted to Journal of Artificial Intelligence Research (JAIR).
- **Yang Li**, Kun Xiong, Yingping Zhang, Jiangcheng Zhu, Stephen Marcus McAleer, Wei Pan, Jun Wang, Zonghong Dai, Yaodong Yang (2023). JiangJun: Mastering Xiangqi by Tackling Non-Transitivity in Two-Player Zero-Sum Games. Transactions on Machine Learning Research.
- **Yang Li**, Fanglei Sun, Jingchen Hu, Chang Liu, Fan Wu, Kai Li, Ying Wen et al. "Self-Supervised MAFENN for Classifying Low-labeled Distorted Images over Mobile Fading Channels." IEEE Transactions on Mobile Computing (2023).
- **Yang Li**, Shao Zhang, Jichen Sun, Yali Du, Ying Wen, Xinbing Wang, and Wei Pan. "Cooperative open-ended learning framework for zero-shot coordination." In International Conference on Machine Learning, pp. 20470-20484. PMLR, 2023.
- Zhang, Bin, Hangyu Mao, Jingqing Ruan, Ying Wen, **Yang Li**, Shao Zhang, Zhiwei Xu et al. "Controlling large language model-based agents for large-scale decision-making: An actor-critic approach." arXiv preprint arXiv:2311.13884 (2023).
- David Henry Mguni, Taher Jafferjee, Jianhong Wang, Nicolas Perez-Nieves, Oliver Slumbers, Feifei Tong, **Yang Li**, Jiangcheng Zhu, Yaodong Yang, and Jun Wang. "LIGS: Learnable Intrinsic-Reward Generation Selection for Multi-Agent Learning." In International Conference on Learning Representations (ICLR). 2021.

### Application of AI

- **Yang Li**, Cheng Yu, Guangzhi Sun, Hua Jiang, Fanglei Sun, Weiqin Zu, Ying Wen, Yang Yang, and Jun Wang. "Cross-Utterance Conditioned VAE for Non-Autoregressive Text-to-Speech." In Proceedings of the 60th Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers), pp. 391-400. 2022.
- Cheng Yu, **Yang Li**, Weiqin Zu, Fanglei Sun, Zheng Tian, and Jun Wang. "Cross-utterance Conditioned Coherent Speech Editing." In Proceedings of the Annual Conference of the International Speech Communication Association, INTERSPEECH, vol. 2023, pp. 2108-2112. ISCA, 2023.
- Fanglei Sun, **Yang Li**, Ying Wen, Jingchen Hu, Jun Wang, Yang Yang, and Kai Li. "Multi-Agent Feedback Enabled Neural Networks for Intelligent Communications." IEEE Transactions on Wireless Communications 21, no. 8 (2022): 6167-6179.
- **Yang Li**, Fanglei Sun, Wenbin Song, Ying Wen, Kai Li, Jun Wang and Yang Yang. "Retrospective Thinking based Multi-Agent System for Wireless Video Transmissions." ICC 2021 - IEEE International Conference on Communications (2021): 1-6.
- **Yang Li**, Fanglei Sun, Weiqin Zu, Wenbin Song, Ying Wen, Jun Wang, Yang Yang, Kai Li and Liantao Wu. "MAFENN: Multi-Agent Feedback Enabled Neural Network for Wireless Channel Equalization." 2021 IEEE Global Communications Conference (GLOBECOM) (2021): 1-6.
- Xiangyue Duan, Xinchun Ye, **Yang Li** and Haojie Li. "High Quality Depth Estimation from Monocular Images Based on Depth Prediction and Enhancement Sub-Networks." 2018 IEEE International Conference on Multimedia and Expo (ICME) (2018): 1-6.

## Patent

- Yu, C., **Li, Y.**, Zu, W., Sun, F., Tian, Z., Wang, J. Cross-sentence conditionally coherent voice editing method, system, and device. (CN Patent Pending, No. CN116189653A)
- **Li, Y.**, Yu, C., Sun, F., Tian, Z., Wang, J., Zhang, C., Sun, X., Jiang, H. Cross-sentence speech synthesis method, system, and device based on variational autoencoder. (CN Patent Pending, No. CN114566141A)
- **Li, Y.**, Sun, F., Yang, C., Wang, J., Wen, Y. Multi-Agent Feedback Network Model, Device, and Storage Medium based on Retrospective Thinking. (CN Patent Pending, No. CN113011582A)
- X. Ye, H. Li, **Y. Li**, X. Duan, a high-quality depth estimation method based on depth prediction and enhanced sub-network. (CN Patent Granted, No. CN108510535B)

## WORK EXPERIENCE

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### Teach Assistant

- COMP61011 Foundations of Machine Learning 2023/2024
- COMP26120 Algorithms and Data Structures 2022-23 Full Year
- COMP24112 Machine Learning 2022-23 2nd Semester

### Shanghai Institute of Digital Brain

*Algorithm Intern*

Shanghai, China

*Oct 2021 – May 2022*

### Huawei

*Algorithm Intern*

Hangzhou, China

*Apr 2021 – Oct 2021*

## AWARDS & ACTIVITIES

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Reviewer for ICML2024, AAMAS 2023, DAI 2023, Journal of AI Research, IEEE INTERNET OF THINGS JOURNAL, IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, e.t.c.

Served as a volunteer for the ICML conference in Hawaii, July 23-29, 2023.

China Scholarship Council (CSC) scholarships

China National Scholarship for Graduate Students 2021

Merit Student of the University of Chinese Academy of Sciences 2022

Student Grant of ICC 2021 by COMSOC