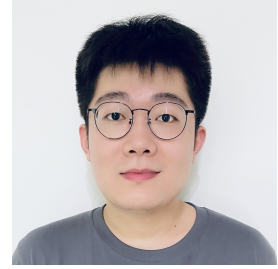


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Education

- University of Technology Sydney** *Jan 2020 - Jul 2024*
Ph.D. Student in Computer Science
Australian Artificial Intelligence Institute, Prof. Chengqi Zhang
- Southern University of Science and Technology** *Jul 2017 - Oct 2019*
Research Assistant in Computer Science
- Beijing University of Aeronautics and Astronautics** *Sep 2013 - Jun 2017*
Bachelor in Automatic Control

Publications

- **Embodied Multi-modal Agent Trained by an LLM from a Parallel Textworld**
Yijun Yang, Tianyi Zhou, Kanxue Li, Dapeng Tao, Lusong Li, Li Shen, Xiaodong He, Jing Jiang, Yuhui Shi
2024, *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*
[Webpage](#)
- **MuEP: A Multimodal Benchmark for Embodied Planning with Foundation Models**
Kanxue Li, Baosheng Yu, Qi Zheng, Yibing Zhan, Yuhui Zhang, Tianle Zhang, Yijun Yang, Yue Chen, Lei Sun, Qiong Cao, Li Shen, Lusong Li, Dapeng Tao, Xiaodong He
2024, *International Joint Conference on Artificial Intelligence (IJCAI)*
[Webpage](#)
- **Continual Task Allocation in Meta-Policy Network via Sparse Prompting**
Yijun Yang, Tianyi Zhou, Jing Jiang, Guodong Long, Yuhui Shi
2023, *International Conference on Machine Learning (ICML)*
[Webpage](#)
- **Pareto Policy Pool for Model-based Offline Reinforcement Learning**
Yijun Yang, Jing Jiang, Tianyi Zhou, Jie Ma, Yuhui Shi
2022, *International Conference on Learning Representations (ICLR)*
[Webpage](#)
- **PyPop7: A Pure-Python Library for Population-Based Black-Box Optimization**
Qiqi Duan, Guochen Zhou, Chang Shao, Zhuowei Wang, Mingyang Feng, Yijun Yang, Qi Zhao, Yuhui Shi
2022, *arXiv preprint arXiv:2212.05652 (submitted to JMLR Machine Learning Open Source Software)*
[Webpage](#)
- **Collective Learning of Low-Memory Matrix Adaptation for Large-Scale Black-Box Optimization**
Qiqi Duan, Guochen Zhou, Chang Shao, Yijun Yang, Yuhui Shi
2022, *International Conference on Parallel Problem Solving from Nature (PPSN)*
[Webpage](#)
- **Distributed Evolution Strategies for Large-Scale Optimization**
Qiqi Duan, Guochen Zhou, Chang Shao, Yijun Yang, Yuhui Shi
2022, *Proceedings of the Genetic and Evolutionary Computation Conference Companion (GECCO)*
[Webpage](#)

- **BiES: Adaptive Policy Optimization for Model-Based Offline Reinforcement Learning**
Yijun Yang, Jing Jiang, Zhuowei Wang, Qiqi Duan, Yuhui Shi
2022, *Australasian Joint Conference on Artificial Intelligence (AJCAI)*
[Webpage](#)
- **Critical Developments and Applications of Swarm Intelligence**
Yijun Yang, Yuhui Shi
2018, *Book*
[Webpage](#)
- **Active Disturbance Rejection Control for Small Unmanned Helicopters via Lévy-flight-based Pigeon-Inspired Optimization**
Daifeng Zhang, Haibin Duan, Yijun Yang
2017, *Aircraft Engineering and Aerospace Technology (Journal)*
[Webpage](#)
- **Pendulum-like Oscillation Controller for UAV based on Lévy-flight Pigeon-Inspired Optimization and LQR**
Zhuqing Liu, Haibin Duan, Yijun Yang, Xiaoguang Hu
2016, *IEEE Symposium Series on Computational Intelligence (SSCI)*
[Webpage](#)

Industry Experience

- Project of Tencent's Foundation Models** *Feb 2024 - Jul 2024*
Research Intern @ Video Generation Team
- Developed VQ-GAN models and the whole training pipeline for efficient visual tokenizers
 - Built a real-time method for synthesizing audio-driven portrait videos from a single image
- JD Explore Academy** *Jun 2023 - Dec 2023*
Research Intern @ Robot Learning Team
- Developed Embodied Multi-Modal Agents for navigation and manipulation tasks

Awards

2022 AAI Student Best Paper Award in the category of AI theory and algorithms

Services

Technical Paper Reviewer for:

- Annual Conference on Neural Information Processing Systems (NeurIPS)
- International Conference on Learning Representations (ICLR)
- International Conference on Machine Learning (ICML)
- IEEE / CVF Computer Vision and Pattern Recognition Conference (CVPR)
- European Conference on Computer Vision (ECCV)
- IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)