

# Yuanpei Chen

## PRESENT ADDRESS

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## CONTACT INFORMATION

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## WEBSITE

**Personal Website** <https://cypypccpy.netlify.app>

**Github** <https://github.com/cypypccpy>

## INTERESTS

Computer vision, Simultaneous Localization and Mapping (SLAM), Reinforcement Learning, Imitation Learning, Robotic, Sim-to-Real Transfer, Meta Learning

## EDUCATION

South China University of Technology, Guangzhou, Guangdong  
Bachelor of Engineering, Intelligent Construction, May 2019  
G.P.A. 3.4/4.0

## PUBLICATION

**Yuanpei Chen**, Yaodong Yang, Tianhao Wu, Shengjie Wang, Xidong Feng, Jiechuang Jiang, Stephen Marcus McAleer, Hao Dong, Zongqing Lu, Song-chun Zhu, "Towards Human-Level Bimanual Dexterous Manipulation with Reinforcement Learning", Conference on Neural Information Processing Systems (**NeurIPS**), 2022, **Under Review**. [Arxiv:2206.08686](https://arxiv.org/abs/2206.08686)

Jiang Ji, Long Yang, Shangding Gu, **Yuanpei Chen**, Zhouchen Lin, Yaodong Yang, "Benchmarking Safe Policy Optimization for Constrained Reinforcement Learning", Conference on Neural Information Processing Systems (**NeurIPS**), 2022, **Under Review**.

Yiran Geng, Boshi An, **Yuanpei Chen**, Haoran Geng, Hongcheng Wang, Yan Zhao, Yaodong Yang, Hao Dong, "Generalizing Object Manipulation through End-to-End Visual Affordance Learning", Conference on Neural Information Processing Systems (**NeurIPS**), 2022, **Under Review**.

Shangding Gu, Jakub Grudzien Kuba, **Yuanpei Chen**, Yali Du, Long Yang, Alois Knoll, Yaodong Yang, "Safe Multi-Agent Reinforcement Learning for Multi-Robot Control", Journal of Artificial Intelligence (**AIJ**), 2022, **Under Review**.

**Yuanpei Chen**, Chao Zeng, Zhiping Wang, Peng Lu, Chenguang Yang, "Zero-Shot Sim-to-Real Transfer of Reinforcement Learning Framework for Robotics Manipulation with Demonstration and Force Feedback", IEEE International Conference on Advanced Robotics and Mechatronics (**ICARM**), 2022, **Accepted**.

## EXPERIENCE

**Team Member** Institute for Artificial Intelligence, Peking University Summer 2022-Present

As a member of the Peking University Multi Agent Reinforcement Learning Group (PKU-MARL) supervised by Prof. [Yaodong Yang](#). I am doing reinforcement learning and robotics research in PKU-MARL group, details can be found on <https://github.com/PKU-MARL/DexterousHands>. The relevant results are going to be submitted at the NeurIPS 2022 conference.

**Team Member** School of Automation, SCUT & Bristol Teleoperation Group Summer 2021-Present

As a member of the Prof.[Chenguang Yang](#)'s group, responsible for the development of robot learning. I have applied reinforcement learning, imitation learning in manipulation and combined learning and control theory during this period.

<b>Team Member</b>	Robotics Laboratory, SCUT	Summer 2020-Present
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As a member of the vision group, responsible for the development of robotics vision. I have applied SLAM, 3D perception, decision and motion planning in a robotic arm and a Automated Guided Vehicle during this period.

## AWARDS

Honor Prize in the American College Students Mathematical Contest in Modeling, Feb 2021  
Third Prize in the ICRA 2021 DJI RoboMaster University AI Challenge, Xi'An, June 2021  
Second Prize in the Final of Huawei Embedded Software Competition,Dong Guang, July 2021  
First Prize in the DJI RoboMaster University Championship, Shen Zhen, July 2021

## PROFESSIONAL SKILLS

### Programming

C++, Python, MatLab

### Frameworks

PyTorch, ROS, MuJoCo, PyBullet, IsaacGym