YUANPEI CHEN

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https://cypypccpy.github.io/

EDUCATION

South China University of Technology *2019.06 - 2024.06*
Bachelor of Engineering, Intelligent Construction

EXPERIENCE

Visiting Student, Stanford University *2022.10 - Present*
Assisted Professor C. Karen Liu with the Sequential Dexterity project.

Visiting Student, Peking University *2022.03 - 2023.07*
Assisted Professor Yaodong Yang with the Bi-DexHands project.

Research Assistant, SCUT *2019.09 - 2023.07*
Assisted Professor Chenguang Yang with the Reinforcement Learning project.

PUBLICATION

Yuanpei Chen*, Chen Wang*, Li Fei-Fei, C. Karen Liu, "Sequential Dexterity: Chaining Dexterous Policies for Long-Horizon Manipulation", **CoRL**, 2023, **Accepted**

Binghao Huang*, **Yuanpei Chen***, Tianyu Wang, Yuzhe Qin, Yaodong Yang, Nikolay Atanasov, Xiaolong Wang, "Dynamic Handover: Throw and Catch with Bimanual Hands", **CoRL**, 2023, **Accepted**

Yuanpei Chen, Yiran Geng, Fangwei Zhong, Jiaming Ji, Jiechuan Jiang, Zongqing Lu, Hao Dong, Yaodong Yang, "Bi-DexHands: Towards Human-Level Bimanual Dexterous Manipulation with Reinforcement Learning", **T-PAMI**, 2023, **Accepted**

Yiran Geng*, Jiaming Ji*, **Yuanpei Chen***, Haoran Geng, Fangwei Zhong, Yaodong Yang, "ReDMan: Reliable Dexterous Manipulation with Safe Reinforcement Learning", **Machine Learning (Journal)**, 2023, **Accepted**

Zihan Ding, **Yuanpei Chen**, Allen Z. Ren, Shixiang Shane Gu, Hao Dong, Chi Jin, "Learning a Universal Human Prior for Dexterous Manipulation from Human Preference", **RSS** Workshop on Learning Dexterous Manipulation, 2023, **Accepted**

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", **NeurIPS**, 2022, **Accepted**

Yiran Geng*, Boshi An*, Haorang Geng, **Yuanpei Chen**, Yaodong Yang, Hao Dong, "Generalizing Object Manipulation through End-to-End Visual Affordance Learning", **ICRA**, 2022, **Accepted**

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, **Accepted**

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", **Robotica**, 2022, **Accepted**

SKILLS

Programming Languages and Frameworks
C++, Python, MatLab, PyTorch, ROS, MuJoCo, PyBullet, IsaacGym

AWARDS AND SCHOLARSHIPS

First Place in NeurIPS 2022 Challenge Track: MyoChallenge	*June 2022*
Third Prize in the ICRA 2021 DJI RoboMaster University AI Challenge	*June 2021*
Second Prize in the Final of Huawei Embedded Software Competition	*July 2021*
First Prize in the DJI RoboMaster University Championship	*July 2021*