

CHONGKAI GAO

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EDUCATION

National University of Singapore, Singapore	01/2024 – present
PhD in School of Computing, Advisor: Prof. Lin Shao	
Tsinghua University, Beijing, China	08/2020 – 06/2023
Master in Department of Automation, Advisor: Prof. Feng Chen, GPA 3.74/4.0, Rank 39/161	
Tsinghua University, Beijing, China	08/2016 – 07/2020
B.Eng. in Department of Automation, GPA 3.62/4.0, Rank 38/158	

PUBLICATIONS

1. Zhixuan Xu*, **Chongkai Gao***, Zixuan Liu*, Gang Yang*, Chenrui Tie, Haozhuo Zheng⁴, Haoyu Zhou, Weikun Peng, Debang Wang, Tianyi Chen, Zhouliang Yu, Lin Shao, “**ManiFoundation Model for General-Purpose Robotic Manipulation of Contact Synthesis with Arbitrary Objects and Robots**”, *Under Review, 2024*, [paper][website]
2. **Chongkai Gao**, Zhengrong Xue, Shuying Deng, Tianhai Liang, Siqi Yang, Lin Shao, Huazhe Xu, “**RiEMann: Near Real-Time SE(3)-Equivariant Robot Manipulation without Point Cloud Segmentation**”, in *CVPR Workshop on Equivariant Vision: From Theory to Practice 2024*, [paper][website]
3. Bo Liu*, Yifeng Zhu*, **Chongkai Gao***, Yihao Feng, Qiang Liu, Peter Stone, Yuke Zhu, “**LIBERO: Benchmarking Knowledge Transfer in Lifelong Robot Learning**”, *NeurIPS Track Datasets and Benchmarks 2023*, [paper][website]
4. **Chongkai Gao**, Zekun Li, Haichuan Gao, Feng Chen, “**Iterative Interactive Modeling for Knotting Plastic Bags**”, in *CoRL 2022*, **Best Systems Paper Nomination**, [paper][website]
5. **Chongkai Gao**, Yizhou Jiang, Feng Chen, “**Transferring Hierarchical Structure with Dual Meta Imitation Learning**”, in *CoRL 2022*, [paper]
6. **Chongkai Gao**, Haichuan Gao, Shangqi Guo, Tianren Zhang, Feng Chen, “**CRIL: Continual Robot Imitation Learning via Generative and Prediction Model**”, in *IROS, 2021*, [paper]
7. Tianren zhang, Yizhou Jiang, Xin Su, Shangqi Guo, **Chongkai Gao**, Feng Chen, “**Subjective Learning for Conflicting Data**”, in *ICLR Workshop on Agent Learning in Open-Endedness, 2022*, [paper]

INDUSTRY INTERNSHIP

Mech-Mind Robotics	Beijing, China
Robot Algorithm Intern	03/2023 – 06/2023
Kinematic Parameter Identification for Serial Robot, Online 3D Bin Packing	

SELECTED HONORS

• President’s Graduate Fellowship, NUS	2024
• Comprehensive Excellence Award, Tsinghua University	2022& 2021& 2019
• Excellent Graduates, Tsinghua University	2020
• Philobiblion Scholarship, Tsinghua University	2019
• Scientific and Technological Innovation Award, Tsinghua University	2019
• Third Place Award, Southern California Software Pioneer Hackathon	2019
• Best Team Culture Award, International Aerial Robotics Competition (Asia-Pacific Venue)	2019

SKILLS

TOEFL 100 (Reading 29, Listening 25, Speaking 22, Writing 24), GRE 154(V) + 168(Q) + 4.0
Python, C++, ROS, L^AT_EX, PyTorch, Mujoco, Git