

Jichuan YU

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EDUCATION

Tsinghua University <i>Ph.D. in Mechanical Engineering (Advisor: Prof. Chuxiong Hu)</i>	Beijing, China Sep. 2021 – Present
Carnegie Mellon University <i>Visiting Scholar at the Robotics Institute (hosted by Prof. Changliu Liu)</i>	Pittsburgh, United States Jul. 2025 – Jan. 2026
Tsinghua University <i>Bachelor in Mechanical Engineering (Elite Program), GPA: 3.82/4.0 (Rank: 5/133)</i>	Beijing, China Sep. 2017 – Jun. 2021
McGill University <i>Exchange Student in Mechanical Engineering</i>	Montreal, Canada Aug. 2019 – Dec. 2019

RESEARCH INTERESTS

My research lies at the intersection of control theory, optimization, and machine learning, with a focus on enabling robotic agents, particularly bimanual systems, to perform safe and efficient collaborative manipulation in complex, open environments.

SELECTED PUBLICATIONS (* equal contribution)

- [1] J. Yu*, B. Li*, Z. Tang, et al., "[BrickCraft: Visuomotor Skill Composition with Situated Manual Guidance for Long-Horizon Interlocking Brick Assembly](#)," *arXiv*, 2026.
- [2] J. Yu, J. Yan, Z. Jin, C. Hu, and Z. Wang, "[Multi-Priority Reactive Motion Control for Safe and Coordinated Dual-Arm Manipulation in Dynamic Environments](#)," *IEEE Robotics and Automation Letters*, 2026.
- [3] Z. Jin, J. Yu, Y. Liang, et al., "[CO-DOSP: A hierarchical optimization-based motion planner for multi-robot manipulation in confined and task-constrained workspace](#)," *Advanced Engineering Informatics*, vol. 69, p. 103923, 2026.
- [4] J. Yu, Z. Jin, C. Hu, et al., "[Hierarchical real-time motion planning for safe multi-robot manipulation in dynamic environments](#)," in *IEEE International Conference on Advanced Robotics and Mechatronics (ICARM)*, Tokyo, Japan, 2024. (**Best Paper Award in Advanced Robotics**)
- [5] J. Yu*, C. Hu*, Z. Wang, et al., "[Printing three-dimensional refractory metal patterns in ambient air: Toward high temperature sensors](#)," *Advanced Science*, vol. 10, no. 31, p. 2302479, 2023. (**Inside Back Cover**)

HONORS AND AWARDS

- Second Prize for Outstanding Oral Presentation, Tsinghua University Doctoral Academic Forum 2025
- National Scholarship for Postgraduates (**Top 2%**) 2023
- Outstanding Teaching Assistant Award of Tsinghua University (**10 recipients per year**) 2023
- National 1st Prize in China Mechanical Engineering Innovation Competition, Micro-Nano Sensing Technology and Intelligent Applications Category, Postgraduate Group (**Rank: 1/88**) 2023
- Outstanding Graduate of Beijing 2021

SKILLS

Programming:	C/C++, Python, MATLAB
Softwares/Tools:	ROS, Gazebo, SolidWorks, AutoCAD, Ansys
Domain Knowledge:	Robotics, Convex Optimization, Optimal Control, Machine Learning