# **Bingjie Tang**

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#### RESEARCH INTERESTS

I am broadly interested in robotic manipulation, with a focus on learning sim-to-real transferable skills for contact-rich manipulation and developing tools for efficient and reliable sim-to-real transfer.

#### **EDUCATION**

• University of Southern California

PhD in Computer Science, advised by Gaurav S. Sukhatme

• Brown University

MS in Computer Science, advised by George D. Konidaris & Stefanie A. Tellex.

• Huazhong University of Science and Technology

BS in Computer Science

Aug. 2020 - Present Los Angeles, USA

Aug. 2018 - May 2020

Providence, USA

Aug. 2014 - May 2018

Wuhan, China

#### PATENTS AND PUBLICATIONS

- [1] Michael Noseworthy, **Bingjie Tang**, Bowen Wen, Ankur Handa, Nicholas Roy, Dieter Fox, Fabio Ramos, Yashraj Narang, Iretiayo Akinola. **Forge: Force-guided exploration for robust contact-rich manipulation under uncertainty.** Submitted to *IEEE Robotics and Automation Letters (RA-L)*.
- Yijie Guo, **Bingjie Tang**, Iretiayo Akinola, Dieter Fox, Abhishek Gupta, Yashraj Narang. **SRSA: Skill Retrieval and Adaptation for Robotic Assembly Tasks.** *International Conference on Learning Representations (ICLR)*, 2025.
- [3] Yian Wang, Iretiayo Akinola, Kaichun Mo, **Bingjie Tang**, Chuang Gan, Dieter Fox, Yashraj Narang. **MatchMaker: Automated Robotic Assembly Asset Generation for Policy Learning in Simulation.** International Conference on Robotics & Automation (ICRA), 2025.
- [4] Bingjie Tang, Iretiayo Akinola, Jie Xu, Bowen Wen, Ankur Handa, Karl Van Wyk, Dieter Fox, Gaurav Sukhatme, Fabio Ramos, Yashraj Narang. AutoMate: Specialist and Generalist Assembly Policies over Diverse Geometries. 20th Robotics: Science and Systems (RSS), 2024.
- [5] Bingjie Tang, Yashraj Narang, Dieter Fox, Fabio Ramos. Techniques for training and implementing reinforcement learning policies for robot control. *US Patent App.* 18/489,789, 2024.
- [6] Bingjie Tang\*, Michael Lin\*, Iretiayo Akinola, Ankur Handa, Gaurav Sukhatme, Fabio Ramos, Dieter Fox, Yashraj Narang. IndustReal: Transferring Contact-Rich Assembly Tasks from Simulation to Reality. 19th Robotics: Science and Systems (RSS), 2023.
- [7] **Bingjie Tang**, Gaurav S. Sukhatme. **Selective Object Rearrangement in Clutter.** 6th Annual Conference on Robot Learning (CoRL), 2022.
- [8] Bingjie Tang, Matthew Corsaro, Geroge Konidaris, Stefanos Nikolaidis, Stefanie Tellex. Learning Collaborative Pushing and Grasping Policies in Dense Clutter. International Conference on Robotics & Automation (ICRA), 2021.

#### WORKING EXPERIENCE

• Seattle Robotics Lab, NVIDIA Corporation [ )

Robotics Research Intern, advised by Yashraj Narang & Dieter Fox

• Technology Engineering Group (TEG), Tencent Software Engineer Intern

May 2022 - Present Seattle, USA

Jun. 2017 - Sept. 2017 Shenzhen, China

### TEACHING EXPERIENCE

• CSCI 1951-R: Introduction to Robotics

Instructor: Stefanie Tellex

Brown University 2019 Fall

• CSCI 566: Deep Learning and its Applications
Instructor: Xiang Ren/Jesse Thomason/Yan Liu

*University of Southern California* 2022/2023 Spring, 2024 Fall

• CSCI 455: Introduction to Robotics

University of Southern California

Instructor: Heather Culbertson
• CSCI 677: Advanced Computer Vision

2022 Fall University of Southern California

Instructor: Yue Wang

2023 Fall

## PROFESSIONAL SERVICE

• Reviewer: ICRA, IROS, CoRL, RSS, RA-L, T-RO.

#### **SKILLS**

- **Programming Languages:** Python, C, C++.
- Deep Learning Libraries: Pytorch, Tensorflow.
- Robotics: ROS, Pybullet, CoppeliaSim, IsaacGym, IsaacLab