

PINGCHENG JIAN

PhD student, Electrical and Computer Engineering, Duke University

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EDUCATION

Duke University

Ph.D. in Electrical and Computer Engineering

Sep. 2021 - present

Advisors: [Michael Zavlanos](#), [Boyuan Chen](#)

Tsinghua University

B.E. in Automation

Transfer major from Mechanical Engineering (2016-2018)
to Automation (2018-2021)

Aug. 2016 - Jul. 2021

Advisors: [Huaping Liu](#), [Mingguo Zhao](#)

RESEARCH INTERESTS

My current research is about robot learning, and my previous publications mostly focus on robotic manipulation. I also have education background in control theory, and I am very interested in the combination of machine learning and control theory.

PUBLICATIONS

(* equal contributions, ** alphabetical order. Up-to-date list can be found in my Google Scholar page.)

Conference Papers

1. [CoRL'23] [Pingcheng Jian](#), Easop Lee, Zachary Bell, Michael M. Zavlanos, Boyuan Chen, "Policy Stitching: Learning Transferable Robot Policies", *Conference on Robot Learning (CoRL)*, 2023. [[web-site](#)]
2. [ICRA'21] [Pingcheng Jian*](#), Chao Yang*, Di Guo, Huaping Liu, Fuchun Sun, "Adversarial Skill Learning for Robust Manipulation", *International Conference on Robotics and Automation (ICRA)*, 2021. [[pdf](#)] [[video](#)]
3. [L4DC'23] Reza Khodayi-mehr, [Pingcheng Jian](#), Michael M. Zavlanos, "Physics-Guided Active Learning of Environmental Flow Fields", *Learning for Dynamics and Control (L4DC)*, 2023. [[pdf](#)]

Under Review & Preprints

4. Minghao Zhang*, [Pingcheng Jian*](#), Yi Wu, Huazhe Xu, Xiaolong Wang, "DAIR: Disentangled Attention Intrinsic Regularization for Safe and Efficient Bimanual Manipulation", *ICML workshop*, 2021. [[website](#)]

PROJECTS

Quadruped Spider Robot, course project of *CS590 - Robot Studio* at Duke University

Project Video: [[video](#)]

I built all the hardware and software of this spider robot from scratch. I drew the parts of this robot with SOLIDWORKS and then printed them with 3D printer. The controller of this robot is a Raspberry Pi, and the control algorithm is written in Python. Then I generated the .urdf files of this robot and built the simulator of this robot with PyBullet.

TEACHING EXPERIENCES

Teaching Assistant at Duke University

[ECE 382L/ME 344L](#) - Control of Dynamic Systems [\[lecture\]](#) [\[recitation\]](#)

SKILLS

Programming Languages

Python, Matlab, C, C++, C#, HTML, Assembly Language

Machine Learning

Pytorch, Reinforcement Learning, Supervised Learning

Robotic Software

PyBullet, MuJoCo

Robotic Hardware

SOLIDWORKS, 3D printing