

# Jiahui Zhang

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## Education

### University of Southern California

Master of Science

Major: Electrical Engineering

Los Angeles, US

Jan 2020 - Dec 2021

### Beijing University of Technology

Bachelor of Engineering

Major: Electrical Information Engineering

Beijing, China

Sept 2015 - Jul 2019

## Research Experience

### Cognitive Learning for Vision and Robotics Lab

Advisor: Prof. Joseph J Lim

- Use large language model to help reinforcement learning to learn long-horizon tasks.
- Deploy reinforcement learning algorithms on the real robot.

Aug 2021 - Present

Los Angeles, US

### Horizon Robotics General AI Lab

Advisor: Dr. Haonan Yu, CEO. Wei Xu

- Led project Cross Domain Imitation Learning Through MPC.

Jan 2023 - Jul 2023

Cupertino, US (Remote)

### USC Media Communications Lab

Advisor: Prof. C.-C. Jay Kuo

- Co-led project Coarse-to-fine Image Deonsing with Spectrum Decomposition.

Jan 2021 - May 2021

Los Angeles, US

### Beijing University of Technology Multimedia Information Processing and Imaging Lab

Advisor: Prof. Luheng Jia

- Independently completed project Video Rate Control via Saliency Detection.

Jul 2018 - Jun 2019

Beijing, China

### Beijing University of Technology Artificial Intelligence and Robotics Research Center

Advisor: Prof. Xiaoqing Zhu

- Designed and implemented a hexapod robot's structure and control algorithm.

Dec 2016 - Mar 2018

Beijing, China

## Publication

1. Jesse Zhang, Karl Pertsch, **Jiahui Zhang**, and Joseph J Lim. SPRINT: Scalable Policy Pre-Training via Language Instruction Relabeling. 2023. CoRL 2023 Submission. Spotlight at LangRob Workshop at CoRL 2022 [[Website](#)] [[Arxiv](#)]
2. Jesse Zhang, **Jiahui Zhang**, Xiang Ren, Shao-hua Sun, Minsuk Chang, Karl Pertsch, and Joseph J Lim. Bootstrap Your Own Skills: Learning to Solve New Tasks with Large Language Model Guidance. 2023. CoRL 2023 Submission. RSS 2023 Articulate Robots Workshop
3. Xiaoqing Zhu, Dengyu Ran, Chentong Xiang, **Jiahui Zhang**, Ge Li, Zhicheng Chen, and Yuwen Fang. Design, Analysis and Experiments of Bionic Hexapod Robot with Multilayer C-shape Legs for Unstructured Terrain. In *2018 13th World Congress on Intelligent Control and Automation (WCICA)*, pages 438–443, 2018

## Research Field

- Reinforcement Learning
- Robotics
- Computer Vision
- Machine Learning
- Deep Learning
- Artificial Intelligence

## Award and Scholarship

2018 **Principle Scholarship (Top 10 Teams)**, Beijing University of Technology

Beijing, China

2017 **Outstanding Research Achievement Award**, Beijing University of Technology, Fan Gongxiu Honors College

Beijing, China

## Skills

**Programming** Python, PyTorch, TensorFlow, MATLAB, etc.  
**Report** Keynote, PowerPoint, LaTeX, Word, Excel, etc.