







Jianglan Wei

david_wei@berkeley.edu | jianglanwei.github.io

ACADEMIC BACKGROUND

- **University of California, Berkeley** 2024.08 - 2025.08
Research Intern and Visiting Student
Berkeley, United States
 - **Advisor:** Prof. Masayoshi Tomizuka (Member of NAE)
 - **GPA:** 4.00/4.00
- **Huazhong University of Science and Technology** 2022.09 - 2026.06 (expected)
BEng in Artificial Intelligence
Wuhan, China
 - **Research Advisor:** Prof. Zhigang Zeng
 - **Major GPA:** 91.23/100.00

PUBLICATIONS

- **Reimagination with Test-time Observation Interventions**  [Paper](#)
Yuxin Chen*, Jianglan Wei*, Chenfeng Xu, Boyi Li, Masayoshi Tomizuka, Andrea Bajcsy, Thomas Tian
Best Paper Finalist at RSS Out-of-Distribution Generalization Workshop, 2025
 - Propose a test-time strategy that enables world models to predict more reliable action outcomes in open-world scenarios where unanticipated visual distractors are inevitable.
 - ReOI improves task success rate by up to 3x in the presence of noval distractors, significantly outperforms action verification that relies on world model predictions without imagination interventions.
- **MEReQ: Max-Ent Residual-Q Inverse RL for Sample-Efficient Alignment from Intervention**  [Paper](#)
Yuxin Chen*, Chen Tang*, Jianglan Wei, Chenran Li, Thomas Tian, Xiang Zhang, Wei Zhan, Peter Stone, Masayoshi Tomizuka
Conference on Robot Learning (CoRL), 2025
 - Propose an interactive imitation learning algorithm where human expert observes the policy's execution and provides interventions for the policy to imitate.
 - Instead of inferring the complete human behavior characteristics, MEReQ infers a residual reward function that captures the discrepancy between the human expert and prior policy's underlying reward functions. This makes MEReQ more sample-efficient compared to baselines.
- **Interleave-VLA: Enhancing Robot Manipulation with Image-Text Interleaved Instructions**  [Paper](#)
Cunxin Fan*, Xiaosong Jia*, Jianglan Wei, et al.
Oral & Spotlight at ICRA Vision-Language Foundation Models in Robotics Workshop, 2025
 - Propose a framework capable of comprehending image-text interleaved instructions and directly generating continuous action sequences in the physical world.
 - Interleave-VLA improves out-of-domain generalization to unseen objects by 2-3x compared to SOTA baselines.
- **HDC-X: Efficient Medical Data Classification for Embedded Devices**  [Paper](#)
Jianglan Wei*, Zhenyu Zhang*, Pengcheng Wang*, Mingjie Zeng, Zhigang Zeng
Under Review as a Conference Paper
 - Propose an energy-efficient medical data classifier capable of embedded deployment.
 - HDC-X is 350× more energy efficient than deep learning baseline while achieving similar accuracy, and demonstrates exceptional robustness to noise, limited training data, and hardware error.
- **CodeAvatar: Learning Animatable Occlusion-Aware 3D Avatars in the Wild**  [Paper](#)
Qinzheng Zhou, Hao Wang, Jianglan Wei, Lijing Lu, Zhihang Li
Under Review as a Conference Paper
 - Propose a framework that creates 3D human avatars from occluded monocular videos.
- **DSN: Energy-Efficient EMG Signal Classification**  [Paper](#)
Zhenyu Zhang*, Xianzhe Meng*, Jianglan Wei, Mingjie Zeng, Zhigang Zeng
Under Review as a Journal Paper
 - Propose a framework that combines SNN and HDC for sEMG signal classification.

HONORS AND AWARDS

- **Student Speaker for Berkeley Global Access Closing Ceremony** 2025.05
University of California, Berkeley
- **UC Berkeley BGA Scholarship 2024 (Top 10 Students)** 2024.12
University of California, Berkeley
- **National 1st Prize, CUMCM 2024 (Top 0.5% out of 59278 teams)** 2024.11
China Society for Industrial and Applied Mathematics (CSIAM)
- **Scholarship for Merit Student 2022, 2023, 2025** 2022.10, 2023.10, 2025.10
Huazhong University of Science and Technology