Wensi Ai

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Research Interests

Human-centered Robotics, Embodied AI, Human-Robot Interaction.

Education

2023 – Present **Stanford University** – Stanford, CA
M.S. in Computer Science. *GPA 4.18*

2019 – 2023 **University of California, Los Angeles (UCLA)** – Los Angeles, CA
B.S. in Computer Science and Applied Mathematics. *GPA 3.93*

Experience

2022 – Present **Stanford Vision and Learning Lab (SVL)**
Research Assistant | Advisors: Jiajun Wu, Fei-Fei Li.
Research on building simulation platforms for robotics learning.

2023 – Present **Stanford Neural Prosthetics Translational Lab (NPTL)**
Research Assistant | Advisors: Jaimie Henderson.
Research on building an intracortical brain computer interface (iBCI) for robot control.

2019 – 2022 **Center for Vision, Cognition, Learning, and Autonomy (VCLA)**
Research Assistant | Advisors: Song-Chun Zhu.
Research on synthesizing character animations with social affordance.

2021 **Metabit Trading**
Software Engineer Intern
Optimizing daily stock data generation workflow using Apache Airflow.

Honors and awards

2024 Top 10, CodeSprintLA Contest

2022 Latin Honor of Magna Cum Laude, UCLA School of Engineering

2022 Departmental Honors, UCLA Mathematics

Publications

2025 **NOIR-Implant: Neural Signal Operated Intelligent Robot for Dexterous Manipulation**
Wensi Ai et. al.
In Submission

2024 **BEHAVIOR Vision Suite: Customizable Dataset Generation via Simulation**
Yunhao Ge*, Yihe Tang*, Jiashu Xu*, Cem Gokmen*, Chengshu Li, Wensi Ai, Benjamin Jose Martinez, Arman Aydin, Mona Anvari, Ayush K Chakravarthy, Hong-Xing Yu, Josiah Wong, Sanjana Srivastava, Sharon Lee, Shengxin Zha, Laurent Itti, Yunzhu Li, Roberto Martín-Martín, Miao Liu, Pengchuan Zhang, Ruohan Zhang, Li Fei-Fei, Jiajun Wu
CVPR 2024 (Highlight)

2024 **TeleMoMa: A Modular and Versatile Teleoperation System for Mobile Manipulation**
Shivin Dass, Wensi Ai, Yuqian Jiang, Samik Singh, Jiaheng Hu, Ruohan Zhang, Peter Stone, Ben Abbatematteo, Roberto Martín-Martín
RSS 2024 DGR Workshop
ICLR 2024 MoMa Workshop

2023 **NOIR: Neural Signal Operated Intelligent Robot for Everyday Activities**
Ruohan Zhang*, Sharon Lee*, Minjune Hwang*, Ayano Hiranaka*, Chen Wang, Wensi Ai, Jin Jie Ryan Tan, Shreya Gupta, Yilun Hao, Gabrael Levine, Ruohan Gao, Anthony Norcia, Li Fei-Fei, Jiajun Wu
CoRL 2023

2023 **ARNOLD: A Benchmark for Language-Grounded Task Learning With Continuous States in Realistic 3D Scenes**
Ran Gong*, Jiangyong Huang*, Yizhou Zhao, Haoran Geng, Xiaofeng Gao, Qingyang Wu, Wensi Ai, Ziheng Zhou, Demetri Terzopoulos, Song-Chun Zhu, Baoxiong Jia, Siyuan Huang
ICCV 2023

2023 **Quantifying the Effect of Visual Impairments on Daily Activities in Virtual, Interactive Environments**
Wensi Ai, Sharon Lee, Li Fei-Fei, Jiajun Wu, Ruohan Zhang
CogSci 2023

2022 **BEHAVIOR-1K: A Human-Centered, Embodied AI Benchmark with 1,000 Everyday Activities and Realistic Simulation**
Chengshu Li*, Ruohan Zhang*, Josiah Wong*, Cem Gokmen*, Sanjana Srivastava*, Roberto Martín-Martín*, Chen Wang*, Gabrael Levine*, Wensi Ai*, Benjamin Martinez, Hang Yin, Michael Lingelbach, Minjune Hwang, Ayano Hiranaka, Sujay Garlanka, Arman Aydin, Sharon Lee, Jiankai Sun, Mona Anvari, Manasi Sharma, Dhruva Bansal, Samuel Hunter, Kyu-Young Kim, Alan Lou, Caleb R Matthews, Ivan Villa-Renteria, Jerry Huayang Tang, Claire Tang, Fei Xia, Yunzhu Li, Silvio Savarese, Hyowon Gweon, C. Karen Liu, Jiajun Wu, Li Fei-Fei
CoRL 2022 (Best paper nominee)

Services

Reviewer, CogSci

Skills

Programming languages
Python, C/C++, Javascript, CSS, HTML

Software & Frameworks
PyTorch, Sklearn, Pandas, Django, React.js

Languages
English (fluent), Mandarin (native)