

# 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: Fei-Fei Li, Jiajun Wu.  
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)