Wensi Ai

wsai@stanford.edu • wensi-ai.github.io • 424-402-7280

Research Interests

Embodied AI, Physics-based Simulation, Human Motion Synthesis.

Education

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

2019 – 2023 **University of California, Los Angeles (UCLA)** – Los Angeles, CA
B.S. in Computer Science and Applied Mathematics. *GPA: 3.93/4.0.*

Selected coursework

- *Computer Science*: Data science fundamentals, Deep learning in computer vision, Algorithms and Complexity, Computer architecture, Software engineering, Computer networks, Operating system principles, Automata theory.
- *Mathematics*: Linear Algebra, Real & complex analysis, Numerical methods, Discrete mathematics, Differential equations, Scientific computing, Mathematical modeling.
- *Statistics*: Machine learning, Probabilistic decision making, Linear models.

Experience

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

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

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

Honors and awards

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

2022 Department Honors, UCLA Mathematics

Publications

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

Skills

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

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

Languages
English (fluent), Mandarin (native)