ENYU ZHAO

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EDUCATION

University of Southern California Sept 2022 - May 2024
Thomas Lord Department of Computer Science

- Degree: Master of Science in Computer Science, **GPA: 3.91/4**
- Major Courses: Robotics, Deep Learning for Robotic Manipulation, Machine Learning, Computer Graphics, etc.

Dalian University of Technology Sept 2018 - June 2022
Department of Electronic and Electrical Engineering

- Degree: Bachelor of Engineering in Computer Science and Technology, **GPA: 3.77/4**
- Major Courses: Deep Learning, Algorithm Analysis, Probability and Statistics, Compiler's Principle, etc.

PUBLICATION

ManipBench: Benchmarking Vision-Language Models for Low-Level Robot Manipulation
Enyu Zhao*, *Vedant Raval*, Hejia Zhang, Jiageng Mao, Zeyu Shangguan, Yue Wang, Daniel Seita*

Submitted to RSS 2025

GPT-Fabric: Smoothing and Folding Fabric by Leveraging Pre-Trained Foundation Models
Vedant Raval, **Enyu Zhao***, Hejia Zhang, Stefanos Nikolaidis, and Daniel Seita*

- ISRR 2024. [Paper (arxiv)] [Website]

Time-aware MADDPG with LSTM for multi-agent obstacle avoidance: a comparative study
***Enyu Zhao**, Ning Zhou, Chanjuan Liu, Houfu Su, Yang Liu, Jinmiao Cong*

- Complex & Intelligent Systems Volume 10, 4141-4155. [Paper]

Instant Photorealistic Style Transfer: A Lightweight and Adaptive Approach
*Rong Liu, **Enyu Zhao**, Zhiyuan Liu, Andrew Feng, Scott John Easley*

- arXiv preprint arXiv:2309.10011. [Paper (arxiv)] [Website]

SDI: A tool for speech differentiation in user identification
*Muhammad Abdul Basit, Chanjuan Liu, **Enyu Zhao***

- Expert Systems with Applications, Volume 243, 122866. [Paper]

ONGOING PROJECTS

GPT-Fabric++ May 2024 - present
USC SLURM Lab

- A follow-up work of GPT-Fabric, focusing on enhancing the generalizability of VLMs in fabric manipulation tasks.

VLMforHRI Feb 2025 - present
USC SLURM Lab & USC Interaction Lab

- Evaluate VLMs in recognizing human cognitive-affective states during interactions with robots in the physical world

EXPERIENCE

USC Sensing, Learning, and Understanding for Robotic Manipulation (SLURM) Lab Dec 2023 - present
Research Assistant *Los Angeles, United States*

- Conducted research on multi-modality large language models and robotics manipulation.

USC Institute for Creative Technologies Aug 2023 - May 2024
Research Scientist Intern *Los Angeles, United States*

· Conducted research on multi-agent and graph neural network.

Cisco Systems China Research & Development Co Ltd Jul 2021 - Nov 2021
Research Scientist Intern *Shanghai, China*

· Conducted research on small-scale computer vision models and development.

SERVICE

Reviewer for 3D Visual Representations for Robot Manipulation workshop ICRA 2024

Reviewer for Agile Robotics: From Perception to Dynamic Action workshop ICRA 2024

COURSE PROJECTS

LLM-based Copilot for Enhanced Vehicle Functionality Mar 2024 - May 2024

· Develop an LLM-powered copilot with advanced capabilities in task decomposition, language understanding, and API coordination for a set of scenarios frequently performed by drivers. [Details]

Modeling Earthquake Damage Mar 2023 - May 2023

· Build machine learning model for the "Richter's Predictor: Modeling Earthquake Damage" competition and achieved **top 5**% ranking. [Details]

HONORS

· Ph.D. Fellowship from The University of Utah. 2025
· OpenAI Researcher Access Program ($5000 API credits). 2024
· Meritorious Winner in Mathematical Contest in Modeling. 2021
· DUT Scientific Innovation Prize 2019
· DUT Academic Achievement Prize 2019

TECHNICAL SKILLS

· Programming Language: Python, C++, C, MATLAB
· Frameworks: Pytorch, Tensorflow, ROS, Rllib, Tianshou