

YUXUAN ZHANG

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EDUCATION

University of California, San Diego <i>Master of Science in Computer Science</i>	Sep. 2025 – Expected Jun. 2027
University of California, San Diego <i>Bachelor of Science in Data Science</i>	Sep. 2021 – Mar. 2025 <i>GPA: 4.0/4.0, summa cum laude (Top 2%)</i>

SELECTED HIGHLIGHTS

• Publications

- **lmgame-Bench: How Good are LLMs at Playing Games?** (ICLR '25-Submitted) Lanxiang Hu, Mingjia Huo, Yuxuan Zhang, Haoyang Yu, Eric P. Xing, Ion Stoica, Tajana Rosing, Haojian Jin, Hao Zhang
- **General Modular Harness for LLM Agents in Multi-Turn Gaming Environments** (ICML '25 Workshop) Yuxuan Zhang, Haoyang Yu, Lanxiang Hu, Haojian Jin, Hao Zhang

• Projects

- **AI GamingAgent**  github.com/lmgame-org/GamingAgent (770+ GitHub stars)
Co-led a multi-agent framework enabling LLMs/VLMs to play video games and evaluate AI performance
- **LLM Multi-Turn RL Training (GRL)**  github.com/lmgame-org/GRL (40+ GitHub stars)
Co-led development of a scalable LLM RL library supporting training and evaluation on multi-turn tasks
- **AI Ace Attorney Gameplay**  x.com/haoailab/status/1912231343372812508 (950k+ views)
Led AI-agent design for a viral demo that showcased gameplay and reached nearly one million views on X

PROFESSIONAL EXPERIENCE

HDSI Research Assistant <i>UC San Diego — Halıcıoğlu Data Science Institute (HDSI), Dr. Hao Zhang</i>	Mar. 2025 – Present <i>La Jolla, CA</i>
<ul style="list-style-type: none">• Collaborated with Google to support multi-turn PPO training for LLMs on games using JAX and TPUs.• Co-led modularization of a multi-agent system to scalably support games such as 2048, Sokoban, Tetris...• Developed a multi-threaded, end-to-end gameplay and evaluation pipeline for 19 LLMs across 6 games.• Deployed a JS-based interactive leaderboard to benchmark generative model performance on gameplays	
Undergraduate Research Assistant, Hao AI Lab <i>UC San Diego — Halıcıoğlu Data Science Institute (HDSI), Dr. Hao Zhang</i>	Jun. 2024 – Mar. 2025 <i>La Jolla, CA</i>
<ul style="list-style-type: none">• Developed AI-driven Roblox games in Lua to support evaluation of model performance against players.• Co-designed and deployed the JS-based LMGame website (lmgame.org) as the hub for blogs and project resources.• Implemented a scalable PostgreSQL system for Elo rankings, enabling large-scale performance comparisons.• Built a scalable multithreaded MySQL + AWS S3 pipeline processing 6.9 TB of logs, improving throughput 4×	

Data Scientist Research Intern, Maximov Lab <i>Scripps Research, Neuroscience Department, Dr. Anton Maximov</i>	Apr 2023 – Dec 2024 <i>La Jolla, CA</i>
<ul style="list-style-type: none">• Built a 3D EM computer-vision pipeline with SAM 2 for neuron segmentation reaching $\geq 80\%$ validation accuracy• Developed an interactive Neuronglancer web app for 3D visualization of large-scale 32-bit neuron datasets.	

TECHNICAL SKILLS

Programming Languages: Python, Java, C/C++, SQL, JavaScript, HTML/CSS, Shell/Bash, R, Lua
Frameworks & Libraries: PyTorch, JAX, Ray, DeepSpeed, Gymnasium, Triton, Node.js, React, OpenCL, OpenCV
Developer Tools: Git, Docker, Kubernetes, PostgreSQL, Google Cloud Platform, MongoDB, Postman, Linux/Unix
Domains: Natural Language Processing, Large Language Models, LLM Post-Training, Reinforcement Learning, Multi-Agent Systems, Computer Vision, Machine Learning, Deep Learning, Data Mining, Model Evaluation

HONORS & AWARDS

UCSD HDSI Scholarship Program Awarded a scholarship for a research project proposal, receiving financial support for the academic year.	Sep. 2023 – Jun. 2024
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