

Lu-Hung (Jason) Su

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RESEARCH INTERESTS

- Natural Language Processing (NLP), Large Language Models (LLMs), Machine Learning (ML)
- Interdisciplinary AI applications, Human-Computer Interaction (HCI)
- Enhancing AI capabilities: mitigating hallucination, improving reasoning, advancing AI interpretability and robustness, exploring diversity in multi-modal and multi-lingual systems

EDUCATION

- **The Ohio State University** Aug 2021 - exp. Dec 2025
Bachelor of Science: Computer and Information Science
◦ **GPA:** 3.406/4.00
◦ **Selected Courses:** Speech and Language Processing (A), Computer Vision for HCI (A-), Artificial Intelligence (B)

SKILLS

- **Technical Skills:** Python, Java, Git, Linux, Shell, NumPy, Matplotlib, OpenCV
- **Languages:** English (native/fluent), Mandarin (native/fluent)

RESEARCH EXPERIENCE

- **Prompt-Based Agents and Experiment Pipeline - SunLab OSUNLP** Jan 2025 - Apr 2025
Undergraduate Researcher – Advisor: Dr. Sun, Huan
◦ Contributed to ScienceAgent and HAL projects on LLM pipeline design and orchestration.
◦ Developed and debugged Docker-based parallel workflows for Claude via AWS Bedrock.
◦ Worked with prompt-based agents and large-scale LLM infrastructure tools.
◦ Collaborated in a fast-paced, high-expectation NLP research team.
- **Large Language Model for JavaScript Deobfuscation** Jun 2024 - Aug 2024
Undergraduate Researcher – Advisor: Dr. Lin, Zhiqiang
◦ Investigated the application of LLMs for countering malicious JavaScript through deobfuscation.
◦ Fine-tuned LLMs with various training and inference settings, optimizing hyperparameters.
◦ Conducted large-scale dataset surveys to enhance the robustness and performance of LLMs.
- **Web-based IDE and Compiler with AI Assistant - HRCE Lab** Aug 2023 – Present
Undergraduate Researcher – Advisor: Dr. Zahra Atiq, Syedah
◦ Designed and developed a web-based code editor with Next.js as the frontend and Piston API for code execution.
◦ Integrated AI assistance and eye-tracking features, leveraging WebGazer.js for calibration and behavior analysis.
◦ Researched methods to improve novice programmers' learning experience through an intelligent IDE.
◦ Strengthened fast-learning and collaboration skills to maintain consistent research progress.

SELECTED PROJECTS

- **Image Stitching** Jan 2024 - Apr 2024
Tools: Python, NumPy, Matplotlib, OpenCV
◦ Developed a computer vision application to create panoramic images from stitched photos.
◦ Leveraged OpenCV's SIFT algorithm for keypoint detection and feature matching.
◦ Applied the RANSAC algorithm and homography computation for precise image alignment.

LEADERSHIP EXPERIENCE

- **Undergraduate Teaching Assistant** for Systems II: Introduction to Operating Systems Jan 2025 - Apr 2025
The Ohio State University Computer Science and Engineering Department
◦ Led weekly office hours for 100+ students, reinforcing Operating Systems concepts like process management, virtual memory, and concurrency.
◦ Provided technical debugging support for C programming assignments involving p-threads, memory allocation, and system calls.
◦ Collaborated with course staff to grade lab projects, assignments, and discuss teaching materials, ensuring clarity and alignment with course outcomes.
- **Undergraduate Teaching Assistant** for Introduction to Computer Programming in Java Aug 2023 - Apr 2025
The Ohio State University Computer Science and Engineering Department
◦ Guided students in problem analysis and debugging, leveraging expertise in Java.
◦ Provided individualized support during office hours, helping students improve coding skills and overall grades.
◦ Evaluated and graded projects and lab assignments for 17 students per semester, providing constructive feedback to enhance their understanding and performance.