

Kaiwen Zhou

 Kaiwen Zhou |  kevinz-01.github.io |  kzhou35@ucsc.edu

EDUCATION

University of California, Santa Cruz Ph.D. in Computer Science and Engineering Research focus: AI safety, AI agents, embodied AI.	Sep. 2021 – Present Advisor: Prof. Xin Eric Wang.
Zhejiang University B.S. in Statistics	Sep. 2017 – June 2021

WORK EXPERIENCE

Research Fellow, MATS Mentor: William Saunders (Anthropic)	Jan. 2026 – Present
• Building lightweight monitors for misaligned behaviors, collaborating with Anthropic's Safety team.	
Research Intern, Microsoft Responsible AI Mentor: Ahmed Elgohary	Jun. 2025 – Sep. 2025
• Developed a red-teaming framework that iteratively crafts adversarial attacks. • Built an effective and efficient red-tearer trained via distilled structured reasoning using SFT and RL. • Impact: Deployed in Microsoft RAI product; a first-author paper (<i>Findings of EACL 2026</i>).	
Research Intern, Samsung Research America Mentor: Yilin Shen	Jun. 2024 – Sep. 2024
• Developed prototype LLM-based agents for coding, scientific idea verification, and literature search.	
Research Intern, Honda Research Institute Mentor: Kwonjoon Lee	Apr. 2023 – Dec. 2023
• Developed a Novel framework for visual reasoning, maximizing the capability of foundation models. • Achieved state-of-the-art training-free performance on visual reasoning tasks (<i>Findings of ACL 2024</i>).	
Research Intern, Samsung Research America Mentor: Yilin Shen	Jun. 2022 – Sep. 2022
• Combined LLM reasoning with Probabilistic Soft Logic (PSL) for zero-shot object navigation. • Achieved state-of-the-art performance in zero-shot embodied navigation tasks (<i>ICML 2023</i>).	

SELECTED PUBLICATIONS

- **SafePro: Evaluating the Safety of Professional-Level AI Agents** [*In submission*]
Kaiwen Zhou, Shreedhar Jangam, Ashwin Nagarajan, Tejas Polu, Suhas Oruganti, ..., Xin Eric Wang.
- **SIRAJ: Diverse and Efficient Red-Teaming for LLM Agents via Distilled Structured Reasoning** [*Findings of EACL 2026*]
Kaiwen Zhou, Ahmed Elgohary, A S M Iftekhar, Amin Saied.
- **Presenting a Paper is an Art: Self-Improvement Aesthetic Agents for Academic Presentations** [*ICLR 2026*]
Chengzhi Liu*, Yuzhe Yang*, **Kaiwen Zhou**, Zhen Zhang, Yue Fan, Yannan Xie, Peng Qi, Xin Eric Wang.
- **SafeKey: Amplifying Aha-Moment Insights for Safety Reasoning** [*EMNLP 2025*]
Kaiwen Zhou, Xuandong Zhao, Gaowen Liu, Jayanth Srinivasa, Aosong Feng, Dawn Song, Xin Eric Wang.
- **The Hidden Risks of Large Reasoning Models: A Safety Assessment of R1** [*IJCNLP-AACL 2025*]
Kaiwen Zhou, Chengzhi Liu, Xuandong Zhao, Shreedhar Jangam, ..., Dawn Song, Xin Eric Wang.
- **Multimodal Situational Safety** [*ICLR 2025, NeurIPS Workshop on RBFM 2024 (Oral)*]
Kaiwen Zhou*, Chengzhi Liu*, Xuandong Zhao, Anderson Compalas, Dawn Song, Xin Eric Wang.
- **Muffin or Chihuahua? Challenging Large Vision-Language Models with Multipanel VQA** [*ACL 2024*]
Yue Fan, Jing Gu, **Kaiwen Zhou**, Qianqi Yan, Shan Jiang, Ching-Chen Kuo, Xinze Guan, Xin Eric Wang.

- **ViCor: Bridging Visual Understanding and Commonsense Reasoning with Large Language Models** [*Findings of ACL 2024*]
Kaiwen Zhou, Kwonjoon Lee, Teruhisa Misu, Xin Eric Wang.
- **Navigation as the Attacker Wishes? Towards Building Byzantine-Robust Embodied Agents under Federated Learning** [*NAACL 2024*]
Yunchao Zhang, Zonglin Di, **Kaiwen Zhou**, Cihang Xie, Xin Eric Wang.
- **ESC: Exploration with Soft Commonsense Constraints for Zero-shot Object Navigation** [*ICML 2023*]
Kaiwen Zhou, Kaizhi Zheng, Connor Pryor, Yilin Shen, Hongxia Jin, Lise Getoor, Xin Eric Wang.
- **JARVIS: A Neuro-Symbolic Commonsense Reasoning Framework for Conversational Embodied Agents** [*NeSy 2025 (Oral)*]
Kaizhi Zheng*, **Kaiwen Zhou***, Jing Gu*, Yue Fan*, Jialu Wang*, Zonglin Di, Xuehai He, Xin Eric Wang.
- **FedVLN: Privacy-preserving Federated Vision-and-Language Navigation** [*ECCV 2022*]
Kaiwen Zhou, Xin Eric Wang.

SELECTED RESEARCH PROJECTS

AGI Safety: Safety Evaluation for Professional-Level AI Agents	Oct. 2025 – Jan. 2026
Develop a safety evaluation dataset with safety risks in professional-level agentic tasks. Build an agent safety evaluation framework. Identify safety gaps of current AI models.	
Improving the Safety Alignment of Large Reasoning Models	March 2025 – May. 2025
Identify the safety aha-moment of large reasoning models (LRMs), and amplify it for safer LRM with the proposed SafeKey training method, leading to significant safety improvement.	
Safety Analysis on Large Reasoning Models	Jan. 2025 – Feb. 2025
Identify safety gaps and safety behaviors in open-source reasoning models, including increased harmfulness level in unsafe responses, harmful reasoning outputs, and failure safety thinking when facing adversarial attacks, etc.	
Multimodal Situational Safety	Apr. 2024 – Sep. 2024
Propose a novel safety problem where the situation in visual input affects the safety of the user's intent in chat and embodied scenarios; benchmark MLLMs and propose multi-agent pipelines to improve situational safety.	
Amazon Alexa Prize SimBot Challenge	Jan. 2022 – Apr. 2023
Build dialog-based embodied instruction following agent; won first place in the public challenge (phase I) and third place in real-user interaction stage (phase II).	
Privacy-preserving Federated Learning for Navigation Agents	Sep. 2021 – March 2022
Build a two-stage federated learning framework for vision-and-language navigation agents to preserve users' data privacy while maintaining navigation performance.	

AI TECHNICAL SKILLS

Post-training, alignment, reinforcement learning, supervised fine-tuning, reasoning, multimodal LLMs, evaluation

MISCELLANEOUS

- Dissertation-Year Fellowship, UCSC (2025-2026)
- Area Chair: ARR Oct 2025
- Reviewer: NeurIPS 2023, ICLR 2024, ICML 2024, ICLR 2025, ICLR 2026