

# Kaiwen Zhou

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

## EDUCATION

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

## WORK EXPERIENCE

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<b>Research Fellow, MATS</b> Mentor: William Saunders (Anthropic)	Jan. 2026 – Present
• Building lightweight monitors for misaligned behaviors, collaborating with Anthropic's Safety team.	
<b>Research Intern, Microsoft Responsible AI</b> Mentor: Ahmed Elgohary	Jun. 2025 – Sep. 2025
• Developed a red-teaming framework for LLM agents that iteratively crafts adversarial attacks. • Built an effective and efficient red-tearer trained via distilled structured reasoning using SFT and RL. • <b>Impact:</b> Deployed in Microsoft RAI product; a first-author paper ( <i>Findings of EACL 2026</i> ).	
<b>Research Intern, Samsung Research America</b> Mentor: Yilin Shen	Jun. 2024 – Sep. 2024
• Developed prototype LLM-based agents for coding, scientific idea verification, and literature search.	
<b>Research Intern, Honda Research Institute</b> 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> ).	
<b>Research Intern, Samsung Research America</b> 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

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- **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

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<b>AGI Safety: Safety Evaluation for Professional-Level AI Agents</b>	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.	
<b>Improving the Safety Alignment of Large Reasoning Models</b>	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.	
<b>Safety Analysis on Large Reasoning Models</b>	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.	
<b>Multimodal Situational Safety</b>	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.	
<b>Amazon Alexa Prize SimBot Challenge</b>	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).	
<b>Privacy-preserving Federated Learning for Navigation Agents</b>	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

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

## MISCELLANEOUS

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