Kaiwen Zhou

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Research interests

Deep learning, computer vision, natural language processing, multi-modal learning

Education

University of California, Santa Cruz
PhD in Computer Science and Engineering   Sep. 2021 – Present
Advisor: Prof. Xin Eric Wang. *GPA: –.*

Zhejiang University
B.S. in Statistics   Sep. 2017 – June 2021
Advisor: Prof. Kewei Liang. *GPA: 3.89.*

Work experience

Samsung Research America
Research intern   June 2022 – Sep. 2022
Mentor: Yilin Shen

Publications

FedVLN: Privacy-preserving Federated Vision-and-Language Navigation
Kaiwen Zhou, Xin Eric Wang.
17th European Conference on Computer Vision (ECCV), 2022.

Research experience

Neuro-Symbolic Commonsense Reasoning Framework for Conversational Embodied Agents
Advisor: Prof. Xin Eric Wang   Mar. 2022 – May 2022
We proposed a neuro-symbolic methods which uses neural methods to acquire symbolic representation about the task and environment, then uses symbolic reasoning module to reason on the symbolic representation for action generation.

Privacy-preserving Federated Vision-and-Language Navigation
Advisor: Prof. Xin Eric Wang   Sep. 2021 – Mar. 2022
We propose a federated learning framework for vision and language navigation. Under this framework we not only preserve the training and inference data privacy with comparable results with centralized training, but also outperforms other pre-exploration methods.

Dialogue summarization with saliency guidance
Advisor: Prof. Lifu Huang (Virginia Tech)   Sep. 2020 – Feb. 2021
We proposed a framework that uses importance score from extractive model to guide the seq-to-seq generative model to mitigate the problem of missing important information in the source document.

Teaching experience	Teaching assistant, UC Santa Cruz	Winter 2022
	CSE 20: Beginning Programming in Python	
Other experience	Amazon Alexa Prize SimBot Challenge	Jan. 2021 – Present
Honors and scholarships	Outstanding undergraduate graduate (Zhejiang University)	2021
	Second-class scholarship (Zhejiang University)	2020
	First-class scholarship (Hailiang Group)	2020
	Second-class scholarship (Zhejiang University)	2019
	Provincial Government Scholarship (Zhejiang Province)	2019

Skills

Programming

Python, C++, Matlab, R.

Languages

English, Chinese, Cantonese

Other interests

Singing, Working out, Traveling, Photographing.