

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 Wang. *GPA*: –.

Zhejiang University

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

Research experience

Federated vision and language navigation for household robot

Advisor: Prof. Xin Wang Sep. 2021 – Present
We propose a federated learning framework for vision and language navigation. Under this framework we not only preserve the training and inference data privacy, but also achieved comparable results with centralized training.

Criss-cross attention network for schema matching

Advisor: Prof. Kewei Liang (Zhejiang University) March. 2021 – May. 2021
We proposed to use criss-cross attention to process similarity matrix in schema matching and prove the effectiveness of criss-cross attention by extensive experiments.

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.