

Yunhao Fang

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EDUCATION

Zhejiang University

Bachelor in Electronical and Information Sciences

- Summer school at University of Illinois at Urbana-Champaign

Sept 2018 – Jun 2022

GPA: 3.92/4.00

University of California, San Diego

Master in Computer Sciences and Engineering

Sept 2022 – Dec 2023 (expected)

RESEARCH EXPERIENCE

University of California, San Diego

Research Assistant

Sept 2022 – now

Advisor: Professor Hao Su

PUBLICATIONS

Conference Publications

Distillation Large Vision-Language Model with Out-of-Distribution Generalizability

Xuanlin Li*, **Yunhao Fang***, Minghua Liu, Zhan Ling, Zhuowen Tu, Hao Su

In International Conference on Computer Vision (ICCV), 2023. [Arxiv](#); [Code](#)

- Investigate the constraints and interactions involved in the process of distilling Vision-Language models (e.g. CLIP) using lightweight models (e.g. ResNet18).
- Propose approaches to enhance distillation while preserving the structure of visual feature space, maintaining the relative relationships between visual and language space, as well as enriching the language space by incorporating detailed and informative descriptions.

Deductive Verification of Chain-of-Thought Reasoning

Zhan Ling*, **Yunhao Fang***, Xuanlin Li, Zhiao Huang, Hao Su

In Neural Information Processing Systems (NeurIPS), 2023. [Arxiv](#); [Code](#)

- Explore the limitations of existing LLMs when applied to problem solving and generating trustworthy content.
- Propose a Natural Program format that empowers LLMs to engage in step-by-step deductive verification with in-context learning, which is further complemented by the strategy of unanimity-plurality to generate reliable output.

AWARDS & HONORS

National Scholarship, the highest honor in China, 2022.

Mathematical Contest in Modeling: Meritorious Winner, 2022.

First-class Scholarship, Zhejiang University, 2021.

Huang Hong, Wu Xiaobei Scholarship (3 out of 2000), Zhejiang University, 2020.

INTERNSHIPS

Shanghai Artificial Intelligence Laboratory

Nov 2021 – Jun 2022

Research Internship

- Maintainer of the open-source codebase mmtracking.
- Doing research about open-world tracking.

Hangzhou Humpback Whale Technology Co., Ltd

Sept 2020 – Dec 2020

Algorithm Engineer Internship

- Propose the monocular RGB image-based motion estimation and correction algorithm (Patent).
- Design and make an RFIC-based remote sensing platform.