Huiyi Chen

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Education

Southeast University 09/2023 - present
Mphil. in Artificial Intelligence. Supervisor: Xu Yang
WAM: 86.71/100. GPA:3.82/4.0

Nanchang Hangkong University 09/2019 - 06/2023
B.S. in Network Engineering.
WAM: 90.08/100. Rank: 1/71. GPA:4.01/5.0

Research Interests

Large Vision-Language Model (LVLM), In-context learning (ICL), Multimodal Retrieval-Augmented Generation (MRAG), Spurious Correlations in LVLMs.

Internship

University of Illinois at Chicago 06/2025 - 11/2025
Research Intern, Remote, Advisor: Lu Cheng

Publications and Preprints

* Refers to the authors having the equal contribution, and should be considered as co-first authors.

1. Li Li*, Jiawei Peng*, **Huiyi Chen***, Chongyang Gao, Xu Yang. How to Configure Good In-Context Sequence for Visual Question Answering (CVPR 2024), Citations: 58.

   The paper explores how to configure effective in-context sequences for Visual Question Answering (VQA) tasks to enhance the ICL capabilities of LVLMs. It elaborates on the role of various in-context configuration in LVLM and designs new configuration methods, providing valuable insights for optimizing LVLM's ICL performance in VQA tasks.

2. **Huiyi Chen**, Jiawei Peng, Kaihua Tang, Xin Geng, Xu Yang. Enhancing Multimodal In-Context Learning for Image Classification through Coreset Optimization (ACM MM 2025 Oral).

   The paper proposes a coreset construction framework, KeCO, for image classification tasks, aimed at enhancing the ICL capabilities of LVLMs. KeCO leverages untapped data from the support set to aggregate category-relevant information into the coreset via feature-level updates. Notably, KeCO achieves strong performance in a simulated online scenario, demonstrating its practical applicability.

3. **Huiyi Chen**, Jiawei Peng, Dehai Min, Changchang Sun, Kaijie Chen, Yan Yan, Xu Yang, Lu Cheng. MVI-Bench: A Comprehensive Benchmark for Evaluating Robustness to Misleading Visual Inputs in LVLMs (Preprinted, submitted to CVPR 2026).

   The paper proposes MVI-Bench, the first comprehensive benchmark designed for evaluating how Misleading Visual Inputs undermine the robustness of LVLMs. Empirical results across 18 state-of-the-art LVLMs uncover pronounced vulnerabilities to misleading visual inputs, and in-depth analyses provide actionable insights that can guide the development of more reliable and robust LVLMs.

Selected Project Experience

1. **PixTag : An AWS-powered Serverless Image Storage System with Advanced Tagging Capabilities** (Project Link)

   This project builds an AWS-based serverless system for storing and retrieving images with auto-generated and manual tags. Users upload images to public cloud storage, where the app automatically tags detected objects (e.g., person, car). They can then edit or add tags and query images by object content.

2. **BookRecord: An Android App dedicated to tracking reading for those who cherish paper-based books.** (Project Link)

   This project aims to design for readers of physical books, offering features to track reading progress, log notes, and analyze reading habits. Users can register accounts, import books, update reading status, and view their reading statistics in a comprehensive analysis page. The app leverages Google Firebase for data storage and a public REST API for book information retrieval.

AWARDS & Others

Scholarships

Southeast University Second-Class Academic Scholarship (Top 10%), China — *Oct. 2023*

Nanchang Hangkong University Outstanding Student Award (Top 1%), China — *2020 - 2023*

Nanchang Hangkong University First-class Academic Scholarship (Top 1%), China — *2020 - 2023*

Competitions

Blue Bridge Cup National Software and Information Technology Professional Talent Programming Competition — 2021, Provincial Second Prize

China College Student Computer Design Competition — 2022, Provincial Second Prize

Language

TOEFL Score: 97 (R)27 (L)27 (S)23 (W)20 — Feb. 2025

Others

1. Since 2020, I have been documenting my learning journey on my CSDN blog, covering topics such as algorithms and deep learning. To date, I have published 293 posts, which have collectively garnered over 392,000 views and attracted 1,011 followers.
2. Since my undergraduate studies, I have consistently practiced algorithm problems on LeetCode website, practicing my coding skills.