🛮 (+86) 152 6704 1093 | 🗷 zhuohangjiang2002@gmail.com | 🐐 zhuohangjiang.com | 🖸 jzzzzh | 🎓 Zhuohang Jiang

Introduction

I am currently a **Ph.D. candidate** in **Computer Science** at The Hong Kong Polytechnic University, co-advised by **Prof. Qing Li** and **Prof. Wenqi Fan**. My current Cumulative GPA is 3.60/4.00.

I earned my **B.Eng.** in **Computer Science and Technology** from **Sichuan University (SCU)** in 2024, graduating with a Major GPA of 3.79/4.0 (89.39/100) and an Overall GPA of 3.78/4.0 (89.25/100).

From 2022 to 2024, I worked as a **research assistant** at **Machine ILab**, under the supervision of **Prof. JiZhe Zhou**, where I participated in research projects funded by the **National Natural Science Foundation of China** and the **National Key R&D Program of China**.

Research Summary_

My research interests lie in large language models (LLMs), retrieval-augmented generation (RAG), and hierarchical reasoning. I focus on both theoretical foundations and practical applications of LLM-based systems.

I have contributed to the design of high-impact benchmarks, such as **HiBench** (first-author **oral** at **KDD 2025**), and comprehensive surveys like **WebAgents**. My work has been published in **top-tier conferences**, including **NeurIPS 2024** (spotlight) and **AAAI 2025**, and has accumulated **80+citations**, with an **h-index of 4**.

Education _

The Hong Kong Polytechnic University

Hong Kong SAR

PH.D. COMPUTER SCIENCE Sep 2024 – Present

- Cumulative GPA: 3.60/4.00
- · Advanced Machine Learning (A), Advanced Topics in Optimization (A-), Advanced Topics in Visual Computing (A-)
- Passed: Research Seminar I & II, Practicum I, Engineering Ethics, Presentation Skills

Sichuan University

Chengdu, China

Sep 2020 - Jun 2024

B.E. COMPUTER SCIENCE AND TECHNOLOGY

- Major GPA 3.79/4.00; Overall GPA 3.78/4.00
- Research Assistant, MachinelLab (2022-2024)

Selected Publications

- HiBench: Benchmarking LLM Capability on Hierarchical Structure Reasoning **Z. Jiang**, P. Wu, Z. Liang *et al.* arXiv:2503.00912, 2025. **KDD 2025** Benchmark&Dataset Track. CCF-A.
- A Survey of WebAgents: Towards Next-Generation Al Agents for Web Automation with Large Foundation Models L. Ning, Z. Liang, Z. Jiang, H. Qu, Y. Ding, W. Fan, X. Wei, S. Lin, H. Liu, P. S. Yu et al. 2025. KDD 2025 Tutorial Track. CCF-A.
- Mesoscopic Insights: Orchestrating Multi-Scale & Hybrid Architecture for Image Manipulation Localization
 X. Zhu, X. Ma, L. Su, Z. Jiang et al. AAAI 2025. CCF-A.
- Beyond Visual Appearances: Privacy-Sensitive Objects Identification via Hybrid Graph Reasoning **Z. Jiang**, B. Tong et al. arXiv:2406.12736, 2024.
- IMDL-BenCo: A Comprehensive Benchmark and Codebase for Image Manipulation Detection & Localization X. Ma[†], X. Zhu[†], L. Su, **Z. Jiang**[†] et al. **NeurIPS 2024** Benchmark Track **Spotlight**. († **Co-first Authors**) CCF-A.
- Perceptual MAE for Image Manipulation Localization: A High-level Vision Learner Focusing on Low-level Features X. Ma, J. Zhou, X. Xu, Z. Jiang, C.-M. Pun et al. arXiv:2310.06525, 2023.
- IML-ViT: Image Manipulation Localization by Vision Transformer X. Ma, B. Du, **Z. Jiang** et al. arXiv:2307.14863, 2023.
- TPTGAN: Two-Path Transformer-Based Generative Adversarial Network Using Joint Magnitude Masking and Complex Spectral Mapping for Speech Enhancement
 - Z. Liu, Z. Jiang, W. Luo et al. ICONIP 2023, Lecture Notes in Computer Science. CCF-C.

Research Experience

School of Computing, National University of Singapore (NUS)

Singapore

SUMMER SCHOOL Aug 2023

Participated in NUS Summer School research program. Completed a face recognition project involving CNN-based feature extraction and similarity matching.

MachinelLab, Sichuan University

Chengdu, China

RESEARCH ASSISTANT

Sep 2022 - Jun 2024

Developed graph-based frameworks for privacy-sensitive object detection under NSFC projects.

Invited Talks

Reasoning Day @ KDD 2025, Toronto, ON, Canada

Understanding Hierarchical Data with Large Language Models: RAG, Structural Reasoning, and Future

Aug 2025

DIRECTIONS

· Invited talk on LLMs for hierarchical data understanding and future directions in reasoning-augmented retrieval.

Selected Projects

HiBench: Benchmark for Hierarchical Reasoning

First Author & Team Leader

KDD 2025 BENCHMARK

KDD 2025 CUP

2025

- 39k queries across six scenarios; open-sourced with evaluation toolkit.
- Responsible for architecture design, key code implementation, and team coordination.

Meta CRAG-MM: Multimodal Retrieval Challenge

Team Leader

2025

- Achieved 12th place among hundreds of global teams.
- Responsible for architecture design, key code implementation, and team coordination.

IMDL-BenCo: Benchmark for Image Manipulation Detection & Localization

Co-First Author

NIPS 2024 BENCHMARK

2024

- · A comprehensive benchmark for the IMDL field, with dataset, baseline, and evaluation code.
- Implemented GPU-accelerated evaluators and co-authored the manuscript.

Selected Honors & Awards

2025	12th Place (Global) , KDD Cup 2025 — Meta CRAG-MM	Toronto, Canada
2024	Spotlight Award , NeurIPS 2024 — IMDL-BenCo (Co-first Author)	Vancouver, Canada
2024	Outstanding Graduate, Sichuan University & Sichuan Province	Sichuan, China
2023	Provincial First Prize, China Collegiate Computer Design Competition	Sichuan, China
2023	Tencent Scholarship, Top 2% Awardee, Sichuan University	Sichuan, China
2023	A-Level Certificate, Comprehensive Quality Evaluation	Sichuan, China
2022	Top 1% Scholarship , Comprehensive First-Class Scholarship, Sichuan University	Sichuan, China
2022	Outstanding Student Award, Top 5%, Sichuan University	Sichuan, China

Professional Service

Reviewer AoE

CONFERENCE & JOURNAL 2023-2025

• TIP, CVPR 2024, NeurlPS 2024, KDD 2025

Teaching Assistant

Hong Kong SAR

POLYU 2024-2025

Assisted in teaching undergraduate and postgraduate courses: Artificial Intelligence (COMP4431) and NLP Practicum (COMP5423).

Skills_

Programming Python, C++, Bash, C, Node.js, LaTeX

Frameworks & Tools PyTorch, Hugging Face, NumPy, OpenCV, Docker, Git, Anaconda

Languages Mandarin (native), English (fluent, IELTS 6.5)