

# Feiyang HAO

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## EDUCATION

### • Xi'an Jiaotong University (XJTU)

Sept. 2022 - Jul. 2026

Bachelor in Software Engineering

Xi'an, P. R. China

- GPA: 4.02/4.3 Grade: 92.5321/100.0
- Rank: 1/130
- National Scholarship

### • The University of Hong Kong (HKU)

Sept. 2024 - Dec. 2024

Exchange in Department of Computer Science, Faculty of Engineering

Hong Kong SAR, P. R. China

- Fung Scholarship (~20000 HKD)
- Four major courses grades: A+, A, A-, B+

## PUBLICATION(UNDER REVIEW)

- **CalliReader: Contextualizing Chinese Calligraphy via an Embedding-Aligned Vision-Language Model.** Yuxuan Luo\*, Jiaqi Tang\*, Chenyi Huang, Feiyang Hao, Zhouhui Lian†. Submitted to ICCV 2025. [\[arxiv\]](#)

## RESEARCH EXPERIENCE

### • CalliReader: A Vision-Language Model for Chinese Calligraphy Contextualization

Jul. 2024 - Mar. 2025

IGCL, Wangxuan Institute of Computer Technology, Peking University

Prof. Zhouhui LIAN

- **Overview:** A VLM equipped with character-wise slicing, *CalliAlign* module, and fine-tuned with Embedding Instruction Tuning (e-IT) along with a benchmark-CalliBench.
- **Responsibilities:**
  - \* Developed an annotation tool featuring shortcuts, navigation, instant save, tagging, and bookmarking, significantly speeding up the data annotation process.
  - \* Conducted benchmarking of existing methods, including OCR techniques and VLMs.
  - \* Collaborated to fine-tune InternLM-2 using embedding instruction tuning (e-IT), enhancing its ability to follow user instructions for recognizing, interpreting, and inferring context knowledge.
  - \* Designed an LLM-as-a-Judge system for intent analysis, using strategies such as role-playing, structured output, Chain-of-Thought (CoT), and multi-dimensional evaluation to create prompts that enhance fairness and accuracy.
- **Preprint Paper Link:** <https://arxiv.org/pdf/2503.06472>

### • IntE: Unstructured Society Research Interview Data Evaluation Method

Aug. 2024 - Dec. 2024

VisLab, Department of Computer Science and Engineering, The Hong Kong University of Science and Technology

Prof. Linping YUAN

- **Overview:** A statistical unstructured society research interview data evaluation method based on inter-data distribution valued by LLM-powered conditional semantic text similarity.
- **Responsibilities:**
  - \* Co-designed the *ICL Setting Determining with Adversarial AI-Human Interaction Loop*, leveraging multi-agent collaboration to optimize prompt development, reduce costs, and improve system adaptability and robustness.
  - \* Created an intuitive and accessible user interface that empowered non-technical researchers to seamlessly interact with the multi-agent system.
  - \* Conducted comprehensive ablation studies across multiple LLMs and condition pairs (with and without specific modules) to evaluate performance and identify key drivers of system effectiveness.

### • CalliLayout: A Calligraphy Layout Generative Model

Apr. 2024 - Jun. 2024

IGCL, Wangxuan Institute of Computer Technology, Peking University

Prof. Zhouhui LIAN

- **Overview:** An efficient calligraphy layout generation solution based on fine-tuned LLM.

- **Responsibilities:**
  - \* Curated a specialized calligraphy image dataset and evaluated baseline methods.
  - \* Selected an optimal base model by analyzing performance and computational efficiency.
  - \* Applied q-LoRA fine-tuning methods to the chosen model, achieving better results while significantly reducing costs compared to existing approaches.
- **FinES<sup>2</sup>: Financial Competencies Evaluation based on Semi-Structured Tests** Mar. 2024-Jul. 2024  
*Xi'an Jiaotong University* Team Project
  - **Overview:** An evaluation framework on semi-structured financial test data based on conditional semantic text similarity (C-STs).
  - **Responsibilities:**
    - \* Constructed a multi-dimensional financial QA dataset encompassing knowledge, behavior, and awareness using LLMs through advanced prompting techniques.
    - \* Conducted comprehensive literature reviews on financial competency assessment, C-STs methodologies, and model fine-tuning strategies.

## FEATURED PROJECTS

- **LumiFlora: A VR Music Firework Show Created with Unity 3D** Nov. 2024-Dec. 2024  
*Leader, Course Project for Emerging Technology for VR/AR, The University of Hong Kong* Prof. Evan Yifan PENG
  - Developed three captivating scenes and integrated background music and firework sound effects.
  - Enhanced interactivity by implementing VR controls using the Google Cardboard SDK.
- **Dormanager: A Multi-granularity Dormitory Management System** Jun. 2024-Jul. 2024  
*Leader, Project for Development Exercising Program, Xi'an Jiaotong University* Engineer Xinpei LU
  - Based on Vue.js, Spring Boot, MyBatis, and MySQL.
  - Designed and developed three functional web pages, implementing features such as dormitory allocation, data search and visualization, and user permission management.

## INTERNSHIP

- **Peking University (PKU)** Apr. 2024 - Mar. 2025  
*Research Internship, Wangxuan Institute of Computer Technology* Prof. Zhouhui LIAN
  - Intelligent Graphics Computing Lab (IGCL)
  - Research Focus: Multimodal Large Language Model (MLLM)

## SELECTED AWARDS

- **Outstanding Student Cadre**, Xi'an Jiaotong University 2024
- **Second Prize**, National University Students Electrical Math Modeling Competition 2024
- **Outstanding Student**, Xi'an Jiaotong University 2023
- **Second Prize**, National English Competition for College Students 2023
- **Second Prize**, FLTRP Uchallenge English Reading Competition 2023

## LEADERSHIP & EXTRACURRICULAR ACTIVITIES

- **Youth League Secretary**, Branch No.2202 2023-2024
- **President**, Class No.2227 2022-2023
- **Member**, XJTU Red Cross 2022-2023
- **Campus Ambassador**, The Admissions Office of XJTU 2022
- **Volunteer Teacher**, Pingbian No.1 Middle School, Yunnan Province 2022

## ADDITIONAL INFORMATION

**Languages:** English proficiency(IELTS: 7.0; CET4: 603; CET6: 570)  
**Interests:** Traveling, Sports, Calligraphy, Musicals