

TIANCHENG HUANG

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EDUCATION

Shanghai Jiao Tong University

SJTU Paris Elite Institute of Technology

Bachelor of Engineering, Bachelor of Arts in French Studies

Shanghai, China

2023 – 2027 (Expected)

- GPA: 3.86 / 4.30; Rank: 16 / 81

PUBLICATIONS

NeuSym-RAG: Hybrid Neural Symbolic Retrieval with Multiview Structuring for PDF Question Answering

ACL 2025

Ruisheng Cao, Hanchong Zhang*, Tiancheng Huang*, Zhangyi Kang, Yuxin Zhang, Liangtai Sun, Hanqi Li, Yuxun Miao, Shuai Fan, Lu Chen†, Kai Yu†*

Contributions

Paper ↗ Code ↗

- Contributed to the design and implementation of the framework, with a focus on the **data pre-processing pipeline**, the **interaction protocol**, and the **evaluation system**.
- Conducted extensive experiments and co-authored the manuscript.

AirQA: A Comprehensive QA Dataset for AI Research with Instance-Level Evaluation

Under Review

Tiancheng Huang, Ruisheng Cao, Yuxin Zhang, Zhangyi Kang, Zijian Wang, Chenrun Wang, Yijie Luo, Hang Zheng, Lirong Qian, Lu Chen†, Kai Yu†

Contributions

Preprint ↗

- **Led the entire project**, overseeing annotator recruitment, training, and management, while implementing core code, conducting extensive experiments, performing theoretical analyses, and writing the manuscript.
- Designed and curated a comprehensive **QA dataset for AI research** with **instance-level evaluation** to support reliable assessment, and developed an automated pipeline for **instruction data synthesis** to support scalable training data generation.
- Conducted rigorous benchmarking and analysis to validate the quality of both dataset and pipeline.

Decomposing Scientific Paper Queries with Draft-and-Follow Policy Optimization to Narrow Knowing-Doing Gap

Under Review

Zijian Wang, Tiancheng Huang*, Hanqi Li, Da Ma, Lu Chen†, Kai Yu†*

Contributions

- Proposed a **draft generation** method and a subsequent **training strategy** for multi-turn task planning, and also participated in the implementation of the method.

EXPERIENCE

Undergraduate Research in LLM Agents

Sep 2024 – Present

SJTU, X-LANCE; Supervised by Prof. Kai Yu and Prof. Lu Chen

- Designing **agentic frameworks** for scientific question answering: 1 paper accepted by ACL 2025.
- Developing **question answering datasets** in the domain of artificial intelligence: 1 paper under review.
- Designing **post-training** methods for agent tool use and planning: 2 paper under review.

Undergraduate Intern as AI Engineer

Jul 2024 – Sep 2024

Public Development Department, Shanghai Research Institute, Huawei Technologies Co., Ltd.

- Integrating DB-GPT, a **text-to-SQL** framework with proprietary database and vector database.

SELECTED AWARDS AND HONORS

Regional First Prize Huawei Software Elite Challenge (Code Craft)

2024

Bronze medalist The 38th National Olympiad in Informatics

2021

Gold Medalist, China Region The 15th Asia-Pacific Informatics Olympiad

2021

Silver Medalist The 38th National Olympiad in Informatics Winter Camp

2021