

# TIANCHENG HUANG

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## EDUCATION

Shanghai Jiao Tong University

Shanghai, China

SJTU Paris Elite Institute of Technology

Bachelor of Engineering, Bachelor of Arts in French Studies

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 Knowledge 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 |