

# Qiqi Duan

M.Phil STUDENT · THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY (GUANG ZHOU)

No. 1, Duxue Road, Nansha District, Guangzhou, Guangdong, 511453, China.

(+86) 15122953320 | qduan130@connect.hkust-gz.edu.cn | <https://rhyscmq.github.io/>

## Education

### The Hong Kong University of Science and Technology (Guang Zhou)

Guangzhou, China

M.Phil. in Data Science and Analytics

Sep, 2024 - PRESENT

- **GPA 3.76/4**, 3 Academic papers, 1 named as the co-first author, 3 ongoing projects.

### The Chinese University of Hong Kong (CUHK)

Hong Kong

M.Sc. in Systems Engineering and Engineering Management

Aug, 2022 - Oct, 2023

- GPA 3.625/4, ranking top 5%. IELTS 7.0.
- Silver Award for Outstanding Graduate for postgraduate recommendation without exam.

### Nankai University (NKU)

Tianjin, China

B.Mgmt. in International Accounting

Sep, 2012 - July, 2016

- **GPA 87.6/100**, ranking top 15%, Recipient of the Academic Year Scholarship.
- Recipient of annual **full-fund exchange** opportunity to **University of Pompeu Fabra** (Barcelona, Spain).

## Publications

[1] Changlun Li\*, Yao Shi\*, Chen Wang, **Qiqi Duan**, Runke Ruan, Weijie Huang, Haonan Long, Lijun Huang, Yuyu Luo, Nan Tang. Time Travel is Cheating: Going Live with DeepFund for Real-Time Fund Investment Benchmarking, **NeurIPS 2025**.

[2] Zhonghua Sheng\*, Shuyu Shen\*, Leixian Shen, **Qiqi Duan**, Nan Tang, Pan Hui, Huamin Qu & Yuyu Luo. Automatic Modeling and Analysis of Students' Problem-Solving Handwriting Trajectories, **AIED 2025**.

## Research

### DeepFund for Real-Time Fund Investment Benchmarking

ADVISOR: PROF. NAN TANG, YUYU LUO

Jan. 2025 - May. 2025

- Addressed potential information leakage by evaluating LLM-driven trading strategies in real-time testing.
- Participated in agent functionality development, code improvement, and experimental evaluation.
- **Paper Accepted at NeurIPS 2025**, open source code on <https://github.com/HKUSTDial/DeepFund.git>

### Goldman: Multi-Agent Framework of Gold Investment

ADVISOR: PROF. NAN TANG, YUYU LUO

Jan. 2025 - May. 2025

- Developed a multi-agent system to optimize decision-making in the volatile gold market, incorporating real-time geopolitical, inflation, and policy data using LLMs.
- Led market research on the gold sector to inform agent framework design, validated the system through real-time portfolio management investment decisions.

### Living Table: Enhancing Research Paper Reading through Interactive Table Visualization

ADVISOR: PROF. YUYU LUO

Jan. 2025 - PRESENT

- Aimed at improving interaction with academic papers through interactive table-based visualizations.
- Led design space creation through user research and corpus analysis, developing a prototype to improve paper reading experiences.
- The qualitative research findings are **Under Review at CHI 2026 as First Author**.

### TRACE: A Human-AI Collaborative System for Long-Form Narrative Consistency

ADVISOR: PROF. YUYU LUO

Jan. 2025 - Aug. 2025

- Defined the "Write, Audit, Correct" paradigm through qualitative interviews, and TRACE, an AI-augmented writing system for real-time narrative consistency checking.
- Utilized the RAG framework for dynamic storage and consistency checking of authors' narrative content, enhancing creative flow and improving writing quality.
- **Paper Under Review at CHI 2026, as First Co-Author.**

### Modeling and Analysis of Students' Problem-Solving Handwriting Trajectories

ADVISOR: PROF. YUYU LUO, NAN TANG

Jan. 2025 -Aug. 2025

- Leveraged MLLM to model and analyze handwriting trajectories through several dimensions, revealing students' problem-solving behaviors and capturing fine-grained details of students' writing processes.
- Contributed to data analysis and modeling of students' logical chains.
- The research on handwriting trajectories modeling has been **Accepted at AIED 2025**, with research on problem-solving behaviors **under review at EAAI 2026**.

### Predicting Datasets' Fine-tuning Results through Probe Tasks

ADVISOR: PROF. NAN TANG

Jun. 2025 - Sep. 2025

- By modeling the data features of datasets and their fine-tuned model performance on downstream tasks, developed a predictive model to predict dataset's suitability for fine-tune process.
- Responsible for dataset generation and experimental work related to PEFT fine-tuning.
- **Paper Under Review at ICLR 2026, as 4<sup>th</sup> Author**

## Working Experience

### Data Analysis Team, Business Intelligence Department

*Du Xiaoman Financial*

Full-Time Data Analyst

Oct, 2023 – Jul, 2024

- Conducted data analysis to align business strategies and enhance decision-making.
- Contributed to the development of user-friendly business intelligence dashboards.

### Special Equipment Management Group, Information Technology Department

*Zhejiang Hongcheng*

Data Analysis Intern, Remote

Oct, 2022 – Jan, 2023

- Conducted data analysis and multi-dimensional visualization displays.
- Managed data governance and quality control, providing real-time support.

### Financial Systems Operations Group, Financial Management Department

*Du Xiaoman Financial*

Full-Time, Financial Accountant, Product Manager

May, 2019 – Aug, 2022

- Independently completed monthly cost accounting and financial analysis.
- Led SOP development for corporate payments, improving efficiency by 30%.
- Assisted in designing Excel templates that simplified daily accounting workflows, saving 50% of inspection time.
- Deployed a new financial system, enhancing cross-functional collaboration.

### Fixed Asset&Account Payable Group, Financial Department

*NXP Semiconductors Inc.*

Full-Time, Accountant

Jul, 2016 – Apr, 2019

- Managed asset data, reducing tracking errors by 10%.
- Identified budgeting improvements, increasing forecasting accuracy.

## Personal Skills

Coding **Python>SQL>JavaScript>Matlab**, NLP, Multi-Agent System, Machine Learning

English **Great Language Ability**, Exchange student with oral fluency, able to understand English materials quickly.

Related Knowledge PyTorch, Tensorflow, Deep Neural Networks, Information Systems.

Thinking **Special Insight to Overview**, Organize ideas logically, Explore essences independently, Abstract ability.

Others **7 years of working experience**, Strong collaboration skills, Positive attitude towards life.