# Qiqi Duan

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

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## 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] **Qiqi Duan**, Changlun Li, Yao Shi,Yizhang Zhu,Yuyu Luo, Nan Tang. Goldman: Reading the Fed, Riding the Trend in Gold Markets with Multi-Agent LLMs, **NeurIPS 2025 (Under Review)**.

[2] 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 (Under Review)**.

[3] 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

**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.

**Deepfund: Live Benchmark for Real-Time Fund Investment**

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.

**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.

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

ADVISOR: PROF. YUYU LUO                                                                        *Jan. 2025 - PRESENT*

- Modeling handwriting trajectories through several dimensions to reveal students' problem-solving behaviors.
- Contributed to data analysis and modeling of students' logical chains.

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

ADVISOR: PROF. NAN TANG                                                                        *Jun. 2025 - PRESENT*

- 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.
- Focused on dataset generation and model PEFT fine-tuning.

# Working Experience

**Data Analysis Team, Business Intelligence Department**                          *Du Xiaoman Financial*

Full-Time Data Analyst                                                                          *Oct, 2023 – Jul, 2024*

- Conducted data analysis and prepared reports, aligning with business strategies to drive decision-making.
- Conducted data analysis to align business strategies and improve decision-making, contributing 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&Accounrt 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.