Yunqi Li

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EDUCATION

Hong Kong University of Science and Technology (HKUST)   Hong Kong SAR, China
Bachelor of Science: Computer Science and General Mathematics; GPA: *3.63/4.30.*   *09/2021 — 06/2025(expected)*
University of Waterloo   Ontario, Canada
Mathematics, Non Degree, Exchange; GPA: *86.33/100.*   *01/2024 — 05/2024*

RESEARCH INTERESTS

Data science, data management, data systems.

PUBLICATION

FRESH: Towards Efficient Graph Queries in an Outsourced Graph
Kai Huang*, **Yunqi Li***, Qingqing Ye, Yao Tian, Xi Zhao, Yue Cui, Haibo Hu, Xiaofang Zhou
ICDE 2024.
Math for AI: On the Generalization of Learning Mathematical Problem Solving
Ruochen Zhou, Minrui Xu, Siqi Chen, Junteng Liu, **Yunqi Li**, Xinxin Lin, Zhengyu Chen, Junxian He
MATH-AI Workshop in NeurIPS, 2024.

Note: * indicates the equal contribution.

SOFTWARE/SYSTEM

Similarity Join Based End-to-End Entity Matching System
Build (**as sole developer**) an end-to-end and in-memory entity matching system that harmonizes various state-of-art similarity join algorithms for optimal recall and scalability.
Open source at: https://github.com/rutgers-db/EntityBlockingBySimilarityJoins.

SELECTED EXPERIENCE

End-to-End Data Integration System   Rutgers University
supervised by Prof. Dong Deng   *02/2024 — ongoing*

- Build an **open-source** end-to-end **entity matching** system which harmonizes state-of-art **similarity join** algorithms.
- Conduct comprehensive experiments against state-of-art entity matching solutions.
- Currently working on writing the research paper to SIGMOD/VLDB.

Graph Data Visual Query Interfaces Optimization   HKUST
supervised by Prof. Xiaofang Zhou and Prof. Kai Huang   *11/2023 — ongoing*

- Design a new framework for **canned patterns generation and maintenance** on graph query interface (GUI).
- Currently working on experiments.

Privacy Preserving Graph Data Management   HKUST
supervised by Prof. Xiaofang Zhou and Prof. Kai Huang   *12/2022 — 11/2023*

- Implement several classical algorithms in **graph privacy** and **graph search**
- Design a new **privacy-preserving framework for multiple graph queries** and publish an ICDE research paper as co-first author.

TEACHING

COMP1021: Introduction to Computer Science   HKUST
Undergraduate teaching assistant   *09/2022 — 12/2022*

COMP2012: Object-Oriented Programming and Data Structures   HKUST
Undergraduate teaching assistant   *09/2023 — 12/2023*

SELECTED AWARDS

Second Runner-up, UROP Awards   HKUST
UROP3200 Best Mini-Conference Paper Award   HKUST
Continuing Scholarship   HKUST
School of Engineering Dean's List   HKUST

TALKS

FRESH: Towards Efficient Graph Queries in an Outsourced Graph   Utrecht, Netherlands
ICDE 2024   *05/2024*

SELECTED COURSES

Computer Science: Design and Analysis of Algorithms (A+); Object-Oriented Programming and Data Structures (A+); Operating System (A).
Mathematics: Probability (A+); Game Theory (A); Linear Algebra (A).

SKILLS

Programming: C/C++, Python, Assembly language(MIPS), LaTeX.
Language: English (TOEFL: 105) and Mandarin Chinese.