Haoxuan Xie

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Education

The Chinese University of Hong Kong, Shenzhen 2019.9 – 2023.7

- BEng (Computer Science and Engineering);
- cGPA (cummulative GPA): 3.704/4 (7th out of 102); mGPA (major GPA): 3.84/4 (6th out of 102);
- 2020, 2021 Dean's List; 2020, 2021 Class C Academic Performance Scholarship.

Research Papers

- SIGMOD conference paper: Haoxuan Xie, Yixiang Fang, Yuyang Xia, Wensheng Luo, Chenhao Ma: On Querying Connected Components in Large Temporal Graphs. Proc. ACM Manag. Data (SIGMOD), 1, N2, Article 170, Publication date: June 2023.

Competitions and Awards

- Programming Contests: Bronze medalist in ICPC 2023 Asia Pacific Regional Contest (ranked 16th out of 125 teams);
- Maths: the National First Prize in The Chinese Mathematics Competitions, 2020;
- Mathematical Modeling: the National Second Prize in Contemporary Undergraduate Mathematical Contest in Modeling, 2020; finalist award in The Interdisciplinary Contest in Modeling, 2021 (top 1%).

Experiences

Tencent IEG Internship 2022.12 – 2023.6

- Work in the company, Tencent, as a researcher in the Interactive Entertainment Group;
- Devise some algorithms for social network analysis and submit a paper to SIGKDD 2025 supervised by my leader, Wenqing Lin.

CUHK(SZ) Research Assistant 2021.9 – 2022.10

- Perform research on graph algorithms supervised by the professor, Yixiang Fang;
- Propose a new problem: connected components in temporal graphs, which models real-world relationships and devise novel algorithms for the problem;
- Awarded with the Undergraduate Research Awards in CUHK(SZ);
- Publish a paper as the first author in the SIGMOD 2023 conference.

PingCAP Internship 2022.5 – 2022.9

- Work in the company, PingCAP, as a developer of distributed database and data migration tools;
- Contribute to the TiDB project and its corresponding data migration tool TiFlow project by identifying and fixing internal errors;
- Contribute to the backend of TiDB Cloud project by developing monitoring metrics on Grafana;
- Develop a mock DB named DM simulator to simulate the data migration process for testing new features.

HKU Research Internship 2022.7 – 2022.9

- Perform research on densest subgraph problems supervised by the professor, Reynold Cheng;
- Formulate a new definition of practical densest subgraph problem and propose an approximation algorithm;
- Successfully give a presentation to HKU faculty on discussing the insights of the problem.