Yuan Qiu
Research Fellow

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EDUCATION

Ph.D. in Computer Science and Engineering, *HKUST*, HONG KONG, CHINA — Sept 2019 — Aug 2022
Thesis: Constructing Synopsis for Query Answering, supervised by Prof. Ke Yi

M.Phil. in Computer Science and Engineering, *HKUST*, HONG KONG, CHINA — Sept 2017 — Aug 2019
Thesis: Towards Online Aggregation for SPJ Queries, supervised by Prof. Ke Yi

B.Sc. in Math and Economics, and in Computer Science, *HKUST*, HONG KONG, CHINA — Sept 2013 — Aug 2017
First Class Honors, Academic Excellence Award, Academic Achievement Medal

International Exchange Program, *Stony Brook University*, NEW YORK, USA — Sept 2016 — Dec 2016

WORK EXPERIENCE

Research Fellow, *NUS & CNRS@CREATE*, SINGAPORE — Jul 2024 — Present
Topic: Differential Privacy, supervised by Prof. Xiaokui Xiao and Prof. Bogdan Cautis

Postdoctoral Fellow, *HKUST*, HONG KONG, CHINA — Jan 2024 — Jun 2024
Topic: Differential Privacy, supervised by Prof. Ke Yi

Big Data Engineer, *ByteDance*, HANGZHOU, CHINA — Sept 2022 — Sept 2023
Products: ClickHouse, EMR StarRocks, Workload Optimization

Intern Engineer, *Alibaba Cloud*, HANGZHOU, CHINA — Apr 2021 — Aug 2021
Topics: Data sketching, Database Optimization

Intern Engineer, *Alibaba Cloud*, HANGZHOU, CHINA — Jan 2019 — May 2019
Topics: Approximate query processing, Cardinality Estimation

PUBLICATIONS

[**SIGMOD 2025**] Dajun Sun, Wei Dong, **Yuan Qiu**, Ke Yi. "*Personalized Truncation for Personalized Privacy.*"

[**KDD 2022**] **Yuan Qiu**, Wei Dong, Ke Yi, Bin Wu and Feifei Li. "*Releasing Private Data for Numerical Queries.*"

[**VLDB 2022**] Ziyue Huang, **Yuan Qiu**, Ke Yi and Graham Cormode. "*Frequency Estimation Under Multiparty Differential Privacy: One-shot and Streaming.*"

[**SIGMOD 2021**] **Yuan Qiu**, Yilei Wang, Ke Yi, Feifei Li, Bin Wu and Chaoqun Zhan. "*Weighted Distinct Sampling: Cardinality Estimation for SPJ Queries.*"

[**EDBT 2019**] **Yuan Qiu**, Serafeim Papadias and Ke Yi. "*Streaming HyperCube: A Massively Parallel Stream Join Algorithm.*"

SKILLS

Communication	Mandarin (native), English (fluent), Japanese (N2), Cantonese (basic)
Programming	Java (proficient), C++ (proficient), SQL (profecient), Scala (intermediate), Python (intermediate)
Tools	Git, Unix, Emacs, Latex

AWARDS

Hong Kong PhD Fellowship,	*Hong Kong Research Grants Council*	2019 – 2022
Postgraduate Studentship,	*Hong Kong University of Science and Technology*	2017 – 2019
Reaching Out Award,	*Hong Kong Government Scholarship Fund*	2017
Chern-Class Achievement Scholarship,	*Hong Kong University of Science and Technology*	2017
First Runner-Up in UG Math Competition,	*Hong Kong University of Science and Technology*	2017
The Cheng Foundation Scholarship,	*Cheng Foundation*	2015 — 2016
Kerry Holdings Limited Scholarship,	*Kerry Holdings Limited*	2013 — 2015