# Yuan Qiu

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Postdoctoral Fellow
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### **EDUCATION**

<b>Ph.D. in Computer Science and Engineering</b> , Hong Kong University of Science and Technology Thesis: Constructing Synopsis for Query Answering, supervised by Prof. Ke Yi	Sept 2019 — Aug 2022
Hong Kong PhD Fellowship	
M.Phil. in Computer Science and Engineering, Hong Kong University of Science and Technology	Sept 2017 — Aug 2019
Thesis: Towards Online Aggregation for SPJ Queries, supervised by Prof. Ke Yi	
Postgraduate Studentship	
<b>B.Sc. in Math and Economics, and in Computer Science</b> , Hong Kong University of Science and Technology	Sept 2013 — Aug 2017
First Class Honors, Academic Excellence Award, Academic Achievement Medal	
International Exchange Program, Stony Brook University, USA	Sept 2016 — Dec 2016

### **PUBLICATIONS**

**Yuan Qiu**, Wei Dong, Ke Yi, Bin Wu and Feifei Li. "Releasing Private Data for Numerical Queries." ACM SIGKDD Conference on Knowledge Discovery and Data Mining (**SIGKDD**), 2022.

Ziyue Huang, **Yuan Qiu**, Ke Yi and Graham Cormode. "Frequency Estimation Under Multiparty Differential Privacy: One-shot and Streaming." International Conference on Very Large Databases (**VLDB**), 2022.

Yuan Qiu, Yilei Wang, Ke Yi, Feifei Li, Bin Wu and Chaoqun Zhan. "Weighted Distinct Sampling: Cardinality Estimation for SPJ Queries." ACM SIGMOD International Conference on Management of Data (SIGMOD), 2021.

**Yuan Qiu**, Serafeim Papadias and Ke Yi. "Streaming HyperCube: A Massively Parallel Stream Join Algorithm." International Conference on Extending DataBase Technology (**EDBT**), 2019.

### **WORK EXPERIENCE**

Postdoctoral Fellow
Hong Kong University of Science and Technology
Hong Kong SAR, China

· Researched on problems related to secure and private query processing.

Big Data EngineerSept 2022 — Sept 2023ByteDanceHangzhou, China

- · Worked on feature development for ByteHouse, a commercial version of the ClickHouse database system.
- Researched on cross-platform workload analysis and diagnosis, and implemented prototypes for workload optimizations.
- Implemented row-store feature for E-MapReduce Serveless StarRocks product.

Intern EngineerApr 2021 — Aug 2021Alibaba CloudHangzhou, China

- Implemented data sketching algorithms into AnalyticDB database optimizer.
- Researched on database optimization problems, including Al-based and adaptive query optimization.

Intern EngineerJan 2019 — May 2019Alibaba CloudHangzhou, China

- Implemented approximate query processing algorithms into AnalyticDB database optimizer.
- · Researched on cardinality estimation problems, including join size estimation and distinct value counting.

## SKILLS

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

#### AWARDS

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