Yilei WANG

Personal Information

Date of Birth:	Feb 14th, 1995
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Education

Current — Ph.D. student in Department of Computer Science and Engineering, The Hong Kong University of Science and Technology, since Fall 2017
Research direction: Database theory and algorithms
Supervisor: Prof. Ke Yi

June 2017 — Bachelor Degree of Nature Sciences in Mathematics and Applied Mathematics, Zhejiang University, Hangzhou, China
Overall GPA: 3.76/4, Rank: 24/108

Summer 2016 — Research Intern in Department of Computer Science, The University of Hong Kong
Thesis: "Reward Bound Estimation in Multi-armed Bandit"
Supervisor: Prof. Chuan Wu

Publications

Author list marked with * use alphabetical ordering (equally contributed).

arXiv Preprint — Qiyao Luo, **Yilei Wang**, Zhenghang Ren, Ke Yi, Kai Chen, and Xiao Wang, Secure Machine Learning over Relational Data. (in preparation)

PODS 2022 — **Yilei Wang** and Ke Yi.* Query Evaluation By Circuits. (in press)

SIGMOD 2021 — **Yilei Wang** and Ke Yi.* Secure Yannakakis: Join-Aggregate Queries over Private Data.

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

NeurIPS 2019 — Zengfeng Huang, Ziyue Huang, **Yilei Wang**, and Ke Yi.* Optimal Sparsity-Sensitive Bounds for Distributed Mean Estimation.

Work Experience

Jan-Jun 2019 — Collaboration Project Internship, Alibaba, Hangzhou
Contributed to developing a database system named "AnalyticDB"
Implemented Wander Join algorithm into AnalyticDB
Did research on approximate distinct count algorithm

Mar-Jun 2017 — Game Development Intern in LeiHuo Technology, Netease, Hangzhou
Contributed to developing a MMORPG named "NiShuiHan Online"

Programming Projects

1. Demo for Secure Yannakakis
2. Spider for Baidu Tieba
3. WPF Practices: WhatToEat, Enigma, StopWatch