Jiaxin Jiang

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Education and Working Experience 2011-2015 B.E., TaiShan College, Shandong University (SDU), Shandong, China Major in Computer Science and Technology; Major GPA: 86.82/100 Ranking: 4/180 2015-2016 RA, DB group, Department of Computer Science, Hong Kong Baptist University Core module(s): Database (DB), High performance computing (HPC) 2016-2020 PhD, DB group, Department of Computer Science, Hong Kong Baptist University Core module(s): Database (DB), High performance computing (HPC) 2020.10-2021.09 **Postdoc**, *DB group*, Department of Computer Science, Hong Kong Baptist University Core module(s): Database (DB), High performance computing (HPC) 2021.09-Present **Research fellow**, Grab-NUS AI Lab, IDS, National University of Singapore Core module(s): Database (DB), Data Mining (DM), High performance computing (HPC) Honors 2017 ACM SIGMOD 2017 Best Paper Award. Joint work with the University of Edinburg. 2017 VLDB 2017 Best Demo Award. Joint work with the University of Edinburg. 2017 ACM SIGMOD Research Highlight Award. Joint work with the University of Edinburg. 2020 **Research Performance Award**. Department of Computer Science, HKBU. 2016-2020 4-year PhD Studentship. HKBU.

2016-2019 Excellent Teaching Assistant Performance Award (3 times), Teaching Assistant Performance Award (2 times). Department of Computer Science, HKBU.

Publications

- 2023 **Jiaxin Jiang**, Yuan Li, Bingsheng He, Bryan Hooi, Jia Chen and Johan Kok Zhi Kang: Spade: A Real-Time Fraud Detection Framework on Evolving Graphs. VLDB 2023.
- 2022 Xuankun Liao, Qing Liu, **Jiaxin Jiang**, Xin Huang, Jianliang Xu, and Byron Choi: Distributed D-core Decomposition over Large Directed Graphs, VLDB 2022.
- 2021 Jiaxin Jiang, Byron Choi, Jianliang Xu, and Sourav S Bhowmick: A Generic Ontology Framework for Indexing Keyword Search on Massive Graphs (Extended Abstract), ICDE 2021.
- 2021 Lyu Xu, **Jiaxin Jiang**, Byron Choi, Jianliang Xu, and Sourav S Bhowmick: Privacy Preserving Strong Simulation Queries on Large Graphs, ICDE 2021.
- 2021 Xuliang Zhu, Xin Huang, Byron Choi, **Jiaxin Jiang**, Zhaonian Zou, and Jianliang Xu: Budget Constrained Interactive Search for Multiple Targets, VLDB 2021.
- 2020 **Jiaxin Jiang**, Xin Huang, Byron Choi, Jianliang Xu, Sourav S Bhowmick, and Lyu Xu: PPKWS: An Efficient Framework for Keyword Search on Public-Private Networks, ICDE 2020.
- 2019 **Jiaxin Jiang**, Byron Choi, Jianliang Xu, and Sourav S Bhowmick: A Generic Ontology Framework for Indexing Keyword Search on Massive Graphs, TKDE 2019.

- 2018 Xin Huang, Jiaxin Jiang, Byron Choi, Jianliang Xu, Zhiwei Zhang, and Yunya Song: PP-DBLP: real-world datasets of public-private collaboration networks on DBLP, ICDM 2018.
- 2017 Wenfei Fan, Yinghui Wu, Jingbo Xu, Wenyuan Yu, **Jiaxin Jiang**, Zeyu Zheng, Bohan Zhang, Yang Cao, and Chao Tian: Parallelizing Sequential Graph Computations. SIGMOD 2017.
- 2017 Wenfei Fan, Jingbo Xu, Yinghui Wu, Wenyuan Yu, and **Jiaxin Jiang**. GRAPE: Parallelizing Sequential Graph Computations. VLDB 2017.
- 2017 Wenfei Fan, Yang Cao, Jingbo Xu, Wenyuan Yu, Yinghui Wu, Chao Tian, **Jiaxin Jiang**, and Bohan Zhang: From Think Parallel to Think Sequential. SIGMOD Record, 2018.
- 2016 **Jiaxin Jiang**, Peipei Yi, Byron Choi, Zhiwei Zhang, and Xiaohui Yu: Privacy-Preserving Reachability Query Services for Massive Networks. CIKM 2016.

Academic Services

PC member: ICDE2024, CIKM2023, CIKM2022, CIKM2021, PAKDD2023, PAKDD2022, PAKDD2021, MUST2020, ADMA2023, AIGC2023

Reviewer: VLDBJ2023, VLDBJ2022, TKDE2022, TKDE2021, TKDE2020, CSUR2023, CSUR2022, CSUR2021, DKE2022, TODS

External reviewer: SIGMOD, VLDB, ICDE, EDBT

Conference Presentations, Implementation and Datasets

- 2022 Spade: A Real-Time Fraud Detection Framework on Evolving Graphs. Available at: https://github.com/samjjx/Spade.
- 2020 PPKWS: An Efficient Framework for Keyword Search on Public-Private Networks. Dallas, Texas USA, ICDE 2020, 22 April. Available at: https://www.comp.hkbu.edu. hk/~jxjian/694_ICDE_Jiang.mp4
- 2018 PP-DBLP: Real-world datasets of public-private collaboration networks on DBLP. Available at: https://github.com/samjjx/pp-data.
- 2016 Privacy-Preserving Reachability Query Services for Massive Networks. Indianapolis, USA, CIKM 2016, October 24.

Research Interests

1) Distributed graph database systems 2) big data analytics, and 3) Fraud detection.

Teaching

- 2017 COMP7810/COMP4096 Business Intelligence
- 2017-2019 COMP4007 Software Design, Development
 - 2019 COMP4007 Software Engineering

Hobbies

Badminton, Jogging, Reading, Coding, Chinese Chess I won "Shandong University Cup" in 2013. \Rightarrow https://rb.gy/nhpy6n

Technical Skills

 $\star \star \star \star \star$ Java, LATEX, Scala, Spark, and GraphX

 $\star \star \star \star \star \star C/C++$, Python, Hadoop, and Giraph