Guodong Jin

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EDUCATION

- **Renmin University of China**   Beijing, China
  Successive Master & PhD Program in Computer Science   *Sep 2015 – June 2022*
    - **PhD**: GPA: 4.00/4.00. Sep 2017 - June 2022. Supervisor: Yueguo Chen
    - **Master**: GPA: 3.87/4.00. Sep 2015 - June 2017. Supervisor: Yueguo Chen

- **Sichuan University**   Chengdu, China
  Bachelor in Information Management and Information Systems; GPA: 3.53/4.00   *Sep 2011 – June 2015*

RESEARCH INTERESTS

My research focuses on query processing and storage optimization of analytical data management systems. My current work, *GRainDB*, investigates how to make RDBMSs efficient on graph workloads.

SELECTED EXPERIENCE

- **University of Waterloo**   Waterloo, Canada
  Visiting PhD Student   *July 2019 – Nov 2021*
    - Worked with Prof. Semih Salihoglu on *GRainDB*, a relational-core graph-relational DBMS, and *GraphflowDB*, a modern graph DBMS.

- **InfoSys**   Bangalore, India
  Software Engineering Intern   *Dec 2016 - Mar 2017*
    - **Distributed In-memory Database System**: Contributed to the development of a system prototype.
    - Developed a framework for SQL parsing, planning, optimization and distributed execution.

SELECTED PUBLICATIONS

- **Making RDBMSs Efficient on Graph Workloads Through Predefined Joins**: **Guodong Jin**, Semih Salihoglu. International Conference on Very Large Data Bases (VLDB), 2022.
- **Storage-layout Optimization and Columnar Caching for Data Lakes**: **Guodong Jin**, Haoqiong Bian, Yueguo Chen, Xiaoyong Du. International Conference on Extending Database Technology (EDBT), 2022.
- **GRainDB: A Relational-core Graph-Relational DBMS**: **Guodong Jin**, Nafisa Anzum, Semih Salihoglu. Conference on Innovative Data Systems Research (CIDR), 2022.
- **Survey on Storage and Optimization Techniques of HDFS**: **Guodong Jin**, Haoqiong Bian, Yueguo Chen, Xiaoyong Du. Journal of Software (in Chinese), 2020.
- **Towards Real-Time Analysis of ID-Associated Data**: **Guodong Jin**, Yixuan Wang, Xiongpai Qin, Yueguo Chen, Xiaoyong Du. International Conference on Conceptual Modeling (ER), 2018.
- **Rainbow: Adaptive Layout Optimization for Wide Tables**: Haoqiong Bian, Youxian Tao, **Guodong Jin**, Yueguo Chen, Xiongpai Qin, Xiaoyong Du. International Conference on Data Engineering (ICDE), 2018.
- **Entity Fiber based Partitioning, No Loss Staging and Fast Loading of Log Data**: Xiongpai Qin, Yueguo Chen, **Guodong Jin**, Yang Liu, Yiming Cong, Xiaoyong Du. Parallel and Distributed Computing, Applications and Technologies (PDCAT), 2016.

SELECTED SYSTEMS PROJECTS

- **GRainDB**   https://github.com/graindb/graindb
    - Relational-core graph-relational DBMS, working with Prof. Semih Salihoglu at University of Waterloo.

- **GraphflowDB**   http://graphflow.io
    - Modern GDBMS led by Prof. Semih Salihoglu at the University of Waterloo.

- **Pixels**   https://github.com/pixelsdb/pixels
    - Column store for data lakes with storage layout optimization and columnar caching.

LANGUAGE SKILLS

- English (TOEFL 103) and Mandarin Chinese.