

Guodong Jin

<https://www.guodongjin.com/about/>

Email : guod.jin@gmail.com

Mobile : +86 18301626701

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 Short), 2022.
- **GRainDB: A Relational-core Graph-Relational DBMS**: Guodong Jin, Nafisa Anzum, Semih Salihoglu. Conference on Innovative Data Systems Research (CIDR Demo), 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 Demo), 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 Demo), 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.