

# Guodong Jin

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## EDUCATION

- **Renmin University of China** Beijing, China  
*Successive Master & PhD Program in Computer Science* *Sep. 2015 – Jul, 2021*
  - **PhD**: GPA: 4.00/4.00. Sep, 2017 - Jul, 2021. Supervisor: Yueguo Chen
  - **Master**: GPA: 3.87/4.00. Sep, 2015 - Jul, 2018. Supervisor: Yueguo Chen
- **Sichuan University** Chengdu, China  
*Bachelor in Information Management and Information Systems; GPA: 3.53/4.00* *Sep. 2011 – July. 2015*

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## RESEARCH INTERESTS

My research focuses on key techniques of big data analytics to improve the performance of analytical systems over big relational tables and large dynamic graphs. My current work investigates how to build an adaptive column store for big tables, including adaptive physical layout optimization and columnar caching. In the future, I plan to continue my research with a focus to investigate cross-model storage and computation integrating big relational tables and large dynamic graphs.

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## SELECTED EXPERIENCE

- **Renmin University of China** Beijing, China  
*Teaching Assistant*
  - **Principles and Design of Database Systems (Graduates)**: Helped students develop their own toy database systems. *Sep 2017 - Jan 2018*
  - **The Practice of Programming (Undergraduates)**: Helped students practice programming languages (such as Javascript and PHP) and develop web applications. *Sep 2016 - Dec 2016*
- **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 distributed data exchanging and message passing using Netty and Akka.
  - Developed a framework for SQL parsing, planning, optimization and distributed execution.

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## SELECTED PUBLICATIONS

- **Towards Real-Time Analysis of ID-Associated Data**: Guodong Jin, Yixuan Wang, Xiongpai Qin, Yueguo Chen, Xiaoyong Du. International Conference on Conceptual Modeling (Demonstration Track), Oct 2018. Springer.
- **Rainbow: Adaptive Layout Optimization for Wide Tables**: Haoqiong Bian, Youxian Tao, Guodong Jin, Yueguo Chen, Xiongpai Qin, Xiaoyong Du. IEEE ICDE, International Conference on Data Engineering (Demonstration Track), Apr 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. IEEE PDCAT, Parallel and Distributed Computing, Applications and Technologies, Dec 2016.

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## PROJECTS

- **ParaFlow** <https://github.com/dbiir/paraflow>
  - Led the development of a real-time analysis system.
- **Rainbow** <https://github.com/dbiir/rainbow>
  - Rainbow is a data layout optimization framework for wide tables stored on HDFS.
- **Pard** <https://github.com/dbiir/pard>
  - Pard is a course project of Distributed Database System .
  - Led the development of Pard as a prototype distributed database system.

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## SKILLS

- **Language Skills**: English (TOEFL 103) and Mandarin Chinese. **Programming Languages**: Java, C