

# Dixin Tang

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## Research Areas

Transaction processing, Stream computing

## Education

- 2015-present      PH.D. Candidate in Computer Science - The University of Chicago  
Advisor: Aaron Elmore
- 2011-2014      M.S. in Computer Science - Institute of Computing Technology, Chinese Academy of Sciences  
Advisor: Wei Li
- 2007-2011      B.S. in Software Engineering - Huazhong University of Science & Technology

## Honors & Awards

- 2016      University Unrestricted (UU) Fellowship - The University of Chicago
- 2016      CERES 1st year Graduate Research Award - The University of Chicago

## Publications

- **Dixin Tang**, Hao Jiang, Aaron J. Elmore:  
Adaptive Concurrency Control: Despite the Looking Glass, One Concurrency Control Does Not Fit All.  
CIDR 2017
- **Dixin Tang**, Taoying Liu, Rubao Lee, Hong Liu, Wei Li:  
A Case Study of Optimizing Big Data Analytical Stacks Using Structured Data Shuffling.  
BigData Congress 2016: 91-100
- Wenjuan Wang, Taoying Liu, **Dixin Tang**, Hong Liu, Wei Li, Rubao Lee:  
SparkArray: An Array-Based Scientific Data Management System Built on Apache Spark.  
NAS 2016: 1-10
- **Dixin Tang**, Taoying Liu, Rubao Lee, Hong Liu, Wei Li:  
A Case Study of Optimizing Big Data Analytical Stacks Using Structured Data Shuffling.  
CLUSTER 2015: 70-73
- **Dixin Tang**, Taoying Liu, Hong Liu, Wei Li:  
RHJoin: A fast and space-efficient join method for log processing in MapReduce.  
ICPADS 2014: 975-980
- Liang Li, **Dixin Tang**, Taoying Liu, Hong Liu, Wei Li, Chenzhou Cui:  
Optimizing the Join Operation on Hive to Accelerate Cross-Matching in Astronomy.  
IPDPS Workshops 2014: 1735-1745

## Teaching Assistant

- Fall 2015      MPCS 51040 - C programming
- Spring 2016      MPCS 52040 - Distributed Systems
- Winter 2017      CMSC 23500 - Introduction to Database

## Referees

**Name** Aaron Elmore  
**Affiliate** The University of Chicago  
**Position** Assistant Professor  
**Contact** aelmore@cs.uchicago.edu

**Name** Wei Li  
**Affiliate** Institute of Computing Technology  
**Position** Associate Professor  
**Contact** liwei@ict.ac.cn