

**PARAG AGRAWAL**  
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353 Serra Mall, #430  
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EDUCATION

**Stanford University**

PhD Student, Computer Science Department  
Master of Science in Computer Science  
Advisor: Prof. Jennifer Widom

Sept. 2005 - Present  
Expected graduation: Summer 2011  
June 2007

**Indian Institute of Technology, Bombay**

Bachelor of Technology, Department of Computer Science and Engineering  
CPI 9.48/10.00, Ranked 1<sup>st</sup> in class of 48

May 2005

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RESEARCH EXPERIENCE

**Uncertain Data Management with Provenance (Trio and Panda)**

Focus on uncertain data integration.  
Advisor: Prof. Jennifer Widom, Stanford University

Oct. 2005 - Present

**Database Summarization**

Scalable mining of high-dimensional data.  
Mentors: Dr. Divesh Srivastava, Dr. Flip Korn and Dr. Lukasz Golab, At&t Labs Research

July 2010 - Sept. 2010

**Data Cleaning (DMX Group)**

Indexing string similarity functions.  
Mentor: Dr. Raghav Kaushik, Microsoft Research

June 2009 - Sept. 2009

**Scalable Data Management (PNUTS)**

Weak consistency, secondary indexes, materialized views.  
Mentors: Dr. Raghu Ramakrishnan and Dr. Brian Cooper, Yahoo! Research

June 2008 - Sept. 2008  
June 2007 - Sept. 2007

**Large Scale Data Analysis (Pig/Hadoop)**

Stage scheduling for multi-query optimization.  
Mentor: Dr. Chris Olston, Yahoo! Research

June 2007 - Sept. 2007

**Blog Search**

Algorithms for ranking blogs.  
Mentor: Dr. Rakesh Agrawal, Microsoft Search Labs

July 2006 - Sept. 2006

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TEACHING EXPERIENCE

**CS346: Database System Implementation**

Co-instructor for advanced graduate class with another PhD student.

Stanford University  
Spring 2010

## PUBLICATIONS

- RAMClouds: Scalable High-Performance Storage Entirely in DRAM** CACM 2011  
John Ousterhout, Parag Agrawal, David Erickson, Christos Kozyrakis, Jacob Leverich, David Mazires, Subhasish Mitra, Aravind Narayanan, Guru Parulkar, Mendel Rosenblum, Stephen M. Rumble, Eric Stratmann, Ryan Stutsman Also in SIGOPS OSR 2009
- Generalized Uncertain Databases: First Steps** MUD Workshop 2010  
Parag Agrawal, Jennifer Widom
- Foundations of Uncertain-Data Integration** VLDB 2010  
Parag Agrawal, Anish Das Sarma, Jeffrey Ullman, Jennifer Widom
- On Indexing Error-Tolerant Set Containment** SIGMOD 2010  
Parag Agrawal, Arvind Arasu, Raghav Kaushik
- Continuous Uncertainty in Trio** MUD Workshop 2009  
Parag Agrawal, Jennifer Widom
- Trio-ER: The Trio System as a Workbench for Entity-Resolution** Tech. Rep. 2009  
Parag Agrawal, Robert Ikeda, Hyunjung Park, Jennifer Widom
- Asynchronous View Maintenance for VLSD Databases** SIGMOD 2009  
Parag Agrawal, Adam Silberstein, Brian Cooper, Utkarsh Srivastava, Raghu Ramakrishnan
- Confidence-Aware Join Algorithms** ICDE 2009  
Parag Agrawal, Jennifer Widom
- Scheduling Shared Scans of Large Data Files** VLDB 2008  
Parag Agrawal, Daniel Kifer, Christopher Olston
- Towards Special-Purpose Indexes and Statistics for Uncertain Data** MUD Workshop 2008  
Anish Das Sarma, Parag Agrawal, Shubha Nabar, Jennifer Widom
- Trio-One: Layering Uncertainty and Lineage on a Conventional DBMS** CIDR 2007 (Demo)  
Michi Mutsuzaki, Martin Theobald, Ander de Keijzer, Jennifer Widom, Parag Agrawal, Omar Benjelloun, Anish Das Sarma, Raghatham Murthy, Tomoe Sugihara
- Trio: A System for Data, Uncertainty, and Lineage** VLDB 2006 (Demo)  
Parag Agrawal, Omar Benjelloun, Anish Das Sarma, Chris Hayworth, Shubha Nabar, Tomoe Sugihara, Jennifer Widom

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## ACADEMIC HONORS

- Winner of Yahoo! Key Scientific Challenges Program in 2009.
- Recipient of a 3-year Cisco Systems Stanford Graduate Fellowship.
- Awarded Institute Silver Medal for academic excellence at IIT Bombay.
- Represented IIT Bombay at ACM-ICPC World Finals in 2005.
- Gold Medalist at International Physics Olympiad (IPhO) in 2001. Ranked 4<sup>th</sup> in Theory.