

ROBERT IKEDA
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EDUCATION

Stanford University, Ph.D. Student, Computer Science (2006 – 2012)
M.S. in Computer Science, 2010, 4.1/4.3 GPA.

University of California, San Diego, B.S. in Electrical Engineering, 2006, 4.0/4.0 GPA, Minor in Mathematics

EXPERIENCE

Research Assistant, InfoLab, Stanford, CA, 1/07 – Present

- My main research project was Panda, a system that uses data provenance to help data analysts debug their workflows. Advised by Prof. Jennifer Widom.

Software Engineer, Stanford's public database class, Fall 2011

- Developed the checking software and interactive workbenches for all of the automatically checked exercises in Prof. Widom's Fall 2011 public class on databases, now hosted by Coursera.

Research Intern, Yahoo! Research, Santa Clara, CA, 6/08 – 9/08

- Designed and implemented a prototype system that allowed data within PNUTS (Platform for Nimble Universal Table Storage) (C++) to be processed using Hadoop (Java).

Research Intern, National Center for High-Performance Computing, Hsinchu, Taiwan, 6/04-9/04

Software Engineering Intern, Seashell Technology, La Jolla, CA, 2/04-4/04

PUBLICATIONS

- *Logical Provenance in Data-Oriented Workflows*. R. Ikeda, A. Das Sarma, and J. Widom. To appear in Proceedings of the 29th International Conference on Data Engineering, Brisbane, Australia, April 2013.
- *Provenance-Based Debugging and Drill-Down in Data-Oriented Workflows*. R. Ikeda, J. Cho, C. Fang, S. Salihoglu, S. Torikai, and J. Widom. Proceedings of the 28th International Conference on Data Engineering, Washington, DC, April 2012. Demonstration description.
- *Provenance-Based Refresh in Data-Oriented Workflows*. R. Ikeda, S. Salihoglu, J. Widom. Proceedings of the 20th ACM Conference on Information and Knowledge Management (CIKM '11), Glasgow, Scotland, October 2011.
- *Provenance for Generalized Map and Reduce Workflows*. R. Ikeda, H. Park, J. Widom. CIDR 2011.
- *RAMP: A System for Capturing and Tracing Provenance in MapReduce Workflows*. H. Park, R. Ikeda, and J. Widom. VLDB 2011. Demonstration description. (Also presented in Hadoop Summit 2011, Santa Clara, California, June 2011.)
- *Panda: A System for Provenance and Data*. R. Ikeda and J. Widom. IEEE Data Engineering Bulletin, Special Issue on Data Provenance, 33(3), September 2010. (Note: A shorter version of this paper appeared in TaPP '10.)

TEACHING EXPERIENCE

- Teaching Fellow, CS145: Introduction to Databases, Summer 2012.
- Course Assistant, CS145: Introduction to Databases, Autumn 2008.
- Course Assistant, CS245: Database System Principles, Winter 2008.

TUTORING EXPERIENCE

- 8th grade Math Workshop at Jordan Middle School (Palo Alto, CA). Started tutoring in January 2012.