

**ROBERT IKEDA**  
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## EDUCATION

**Stanford University**, Stanford, CA

Ph.D. Student, Department of Computer Science (2006 – )

Coursework includes: Databases(CS145, CS245, CS346), Artificial Intelligence(CS121), Machine Learning(CS229), Operating Systems(CS140), Translational Bioinformatics(CS275).

Passed written portion of InfoLab Qualifying Exam (Spring 2007).

**University of California, San Diego**, La Jolla, CA

B.S. in Electrical Engineering, June 2006, 4.0/4.0 GPA, summa cum laude, Minor in Mathematics

**UCSD Prime Program**, Hsinchu, Taiwan

## RESEARCH INTERESTS

Challenges involving scalability and real data.

Looking for new problems from industry to help set personal research direction in the fall.

## EXPERIENCE

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

- Hierarchy Matching Project. Data integration study on how to exploit common data instances in two hierarchies to infer semantic relationships between the categories. Paper accepted at ECDL 2008 and poster accepted at ICDE 2008. Designed and implemented algorithms on data sets from Open Directory, Yahoo.com, and TheStandard.com (Python)

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

- Created a plug-in for Cytoscape, a bioinformatics software platform, that generated hyperbolic network views (Java)
- Implemented similar hyperbolic algorithm on a network visualization tool for internal use in NCHC (OpenGL)

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

- Designed and implemented a program that automatically located plasmon resonant particles in bitmap images of biological samples, and created an autofocus program that allowed the camera to rapidly generate high-quality bitmap images of the samples (Visual C++)

## PUBLICATIONS

Robert Ikeda, Kai Zhao, and Hector Garcia-Molina. *Matching Hierarchies Using Shared Objects*. Paper presented at European Conference for Digital Libraries, 2008, Aarhus, Denmark.

Kai Zhao, Robert Ikeda, and Hector Garcia-Molina. *Merging Hierarchies Using Object Placement*. Poster presented at International Conference on Data Engineering, 2008, Cancun, Mexico.

## CLASS PROJECT

**CS346 - Database System Implementation**

- RedBase Project - Implemented Record Manager, Indexing Component (B+ tree), System Manager, Query Language (RQL). Won second prize (tie) in RedBase I/O Efficiency Contest. (C++)

**SKILLS** Python, Matlab, C++, Java, XML, HTML, R

**AWARDS** Regents Scholarship, Jacobs Scholarship, ARCS Foundation Scholarship