

# Huascar A. Sanchez

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## Education

Ph.D. Computer Science, University of California, Santa Cruz, September 2009–Present.

*Advisor:* Jim Whitehead.

M.S. Software Engineering, San Jose State University, 2006.

B.S. Information Systems Engineering, Catholic University, Nicaragua, 2001.

## Experience

University of California, Santa Cruz, Augmented Design Lab, Research Assistant, September 2011–present.  
Research with Jim Whitehead. Developed tools for understanding the design space of mixed initiative robot design tools.

University of California, Santa Cruz, Computer Science Department, Teaching Assistant, 2011–2012.  
Teaching Assistant for Luca de Alfaro, and Terry Allen.

University of California, Santa Cruz, Database Group, Research Assistant, September 2010–August 2011.  
Research with Neoklis Polyzotis. Developed tools that made index tuning easier and more effective.

Pearson VUE, Bloomington, MN, Infrastructure Group, Software Developer, January 2006–August 2009.  
Reported to Ron Lancaster. Supported distributed applications in charge of delivering over 4 million tests a year across the globe for clients in diverse markets, such as licensure, certification, etc.

Infomotor Inc., San Francisco, CA, Consultant, February 2010–July 2010.  
Reported to Aaron Rau. Developed software to streamline both reporting and presentation of critical data, monitor key performance metrics, and deliver understandable and actionable data.

## Fields of Research Interest

Search-driven Development, Software Engineering, and the Human Aspects of Software Development

## Research

### *Publications*

Jimenez, I., Sanchez, H., Tran, Q. T., & Polyzotis, N. (2012). Kaizen: A Semi-Automatic Index Advisor (pp. 685–688). Presented at the the 2012 international conference, New York, New York, USA: ACM Press. doi:10.1145/2213836.2213932

Jimenez, I., LeFevre, J., Polyzotis, N., & Sanchez, H. (2011). Benchmarking Online Index-Tuning Algorithms. IEEE Data Eng. Bull., 34(4), 28–35.

The rest of publications can be found online at *academic site*.

### *Papers Under Review*

Sanchez, H. (2012). SNIPR: Complementing Code Search with Code Retargeting Capabilities.

## Professional Activities

Member, Association of Computing Machinery (ACM), 2005–Present.

## Teaching Experience

*University of California, Santa Cruz*

Mobile Applications: Spring 2012, teaching assistant for Luca de Alfaro.

Business Information Systems: Fall 2011, teaching assistant for Terry Allen.

## Selected Graduate Coursework

Advance Computer Graphics (Procedural Content Generation), *Cmps290B*, Winter 2012.

Machine Learning, *Cmps242*, Fall 2011.

Information Retrieval, *ISM-260*, Fall 2011.

Data Mining, *ISM-245*, Spring 2011.

Computational Models and Complexity, *Cmps210*, Winter 2011.

Design and Implementation of Database Systems, *Cmps278*, Fall 2010.

Analysis of Algorithms, *Cmps201*, Spring 2010.

Topics in Database Systems (Cloud Computing), *Cmps290H*, Spring 2010.

Programming Languages, *Cmps203*, Winter 2010.

Human Computer Interaction, *Cmpe231*, Winter 2010.

Topics in Software Engineering, *Cmps290G*, Fall 2009.

## Skills Overview

Languages: Java, Javascript, C#, SQL, L<sup>A</sup>T<sub>E</sub>X, some Python, some Ruby, some ActionScript, and some Haskell.

Frameworks: Guice, Ant, Ivy, JUnit, Jasmine, TestNG, some Java Swing.

Tools: Flex, Git, and Subversion.

Databases: MySQL, SQLite, PostgreSQL, and Microsoft SQL Server.

OS: Mac OS X, Linux (Ubuntu), Windows.

Other: Experience in API design, Refactoring, IoC, and Software Patterns.

Last updated: November 5, 2012