# Kai Wang, Ph.D.

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CONTACT
INFORMATION

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La Jolla, CA 92093

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EDUCATION

**University of California, San Diego**, La Jolla, CA
  Ph.D. in Computer Science, 2013.
  Advisor: Prof. Serge Belongie

**University of Washington**, Seattle, WA
  B.S. in Computer Science with College Honors, 2006.

EXPERIENCE

**Google Inc.**, Santa Monica, CA
*Software Engineer*                                          **June 2013 - Present**

**University of California, San Diego**, La Jolla, CA
*Graduate Research Assistant*                            **July 2007 - June 2013**
Adviser: Prof. Serge Belongie

**Google Inc.**, Santa Monica, CA
*Google Goggles, Summer Intern*                                  **Summer 2012**
Host: Dr. Alessandro Bissacco

**University of California, Berkeley**, Berkeley, CA
*Visiting Graduate Researcher*                  **March 2011 - September 2011**
Host: Prof. David Wagner

**Google Inc.**, Santa Monica, CA
*Google Goggles, Summer Intern*                                  **Summer 2010**
Host: Dr. Alessandro Bissacco

**Microsoft Research Asia**, Beijing, China
*Visual Computing Group, EAPSI Fellow*                           **Summer 2009**
Host: Dr. Jian Sun

**Google Inc.**, Mountain View, CA
*Video Content Analysis Group, Summer Intern*                    **Summer 2008**
Host: Dr. Hrishi Aradhye

**Jobster Inc.**, Seattle, WA
*Software Development Engineer*                       **August 2006 - July 2007**

**Intel Research**, Seattle, WA
*Undergraduate Intern*                          **October 2004 - August 2006**
Host: Dr. Matthai Philipose

**University of Washington**, Seattle, WA
*Research Assistant*                             **January 2004 - June 2004**
Mentors: Prof. Donald Patterson (UC Irvine) and Prof. Henry Kautz (UW).

PUBLICATIONS

Eric Kim, Nicholas Carlini, Andrew Chang, George Yiu, Kai Wang, and David Wagner Improved

Support for Machine-Assisted Ballot-Level Audits, *USENIX Electronic Voting Workshop (EVT/WOTE)*, Washington, DC. August 2013.

Kai Wang, Eric Kim, Nicholas Carlini, Ivan Motyashov, Daniel Nguyen, and David Wagner. Operator-Assisted Tabulation of Optical Scan Ballots, *USENIX Electronic Voting Workshop (EVT/WOTE)*, Bellevue, WA. August 2012.

Kai Wang, Boris Babenko, and Serge Belongie. End-to-end Scene Text Recognition, *International Conference on Computer Vision (ICCV)*, Barcelona, Spain. September 2011.

Kai Wang, Eric Rescorla, Hovav Shacham, and Serge Belongie. OpenScan: A Fully Transparent Optical Scan Voting System, *USENIX Electronic Voting Workshop (EVT/WOTE)*, Washington, DC. August 2010.

Kai Wang and Serge Belongie. Word Spotting in the Wild, *European Conference on Computer Vision (ECCV)*, Heraklion, Crete. September 2010.

Peter Faymonville, Kai Wang, John Miller, Serge Belongie. CAPTCHA-based Image Labeling on the Soylent Grid, *Human Computation Workshop (HCOMP) 2009*, Paris, France. June 2009.

Benjamin Laxton, Kai Wang, and Stefan Savage. Reconsidering Physical Key Secrecy: Teleduplication via Optical Decoding, *ACM Computer and Communications Security (CCS)*, Arlington, VA. October 2008.

Shiaokai Wang, William Pentney, Ana-Maria Popescu, Tanzeem Choudhury, and Matthai Philipose. Commonsense-Based Joint Training of Human Activity Recognizers, *International Joint Conference on Artificial Intelligence (IJCAI)*, Hyderabad, India. January 2007.

William Pentney, Henry Kautz, Matthai Philipose, Ana-Maria Popescu, and Shiaokai Wang. Sensor-Based Understanding of Daily Life via Large-Scale Use of Common Sense, *Association for the Advancement of Artificial Intelligence (AAAI)*, Boston. July 2006.

Donald J. Patterson, Lin Liao, Krzysztof Gajos, Michael Collier, Nik Livic, Katherine Olson, Shiaokai Wang, Dieter Fox, and Henry Kautz. Opportunity Knocks: a System to Provide Cognitive Assistance with Transportation Services, *International Conference in Ubiquitous Computing (UBICOMP)*, Nottingham, England. September 2004.

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|---|---|
| Honors | Intel PhD Fellowship, 2012-2013 |
| | Yahoo! Key Scientific Challenges Program, 2010 |
| | NSF EAPSI Fellowship, 2009 |
| | NSF Graduate Research Fellowship, 2007-2010 |
| | Mary Gates Research Training Grant, University of Washington, 2006 |
| | Undergraduate Scholar Award, University of Washington, 2002-04 |
| | |
| Selected Talks | "Reconsidering OCR from an Object Recognition Perspective," UC Berkeley, May 2011; Amazon A9, August 2011; Stanford University, September 2011. |
| | "Reading Image Text: an Object Recognition Based Approach," Google Santa Monica, January 2010. |
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| Selected Press | **Scientific American, November 13, 2008** |
| | Title: *Showcasing Your Life Online? New Software Uses Images of Keys to Make Copies.*, |
| | Coverage of <u>Reconsidering Physical Key Secrecy: Teleduplication via Optical Decoding</u>. |

**Ars Technica, July 24, 2012**
Title: *Saving throw: securing democracy with stats, spreadsheets, and 10-sided dice.*
Coverage of Operator-Assisted Tabulation of Optical Scan Ballots.

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Teaching
Experience

**University of California, San Diego**, La Jolla, CA
*Teaching Assistant - CSE 166 - Image Processing*                              **Fall 2011**
*Instructor - Teams in Engineering Service (TIES): GroZi Project*              **Fall 2008**

**University of Washington**, Seattle, WA
*Teaching Assistant - CSE 457 - Computer Graphics*                             **Spring 2005**

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Notes: also published as Shiaokai Wang; CV last updated June 2013