

Teresa Ko

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EXPERIENCE

Co-founder, Wertago LLC, Los Angeles, CA

2008-present

- ▶ Designed and developed a mobile application for nightlife -- enabling users to search for nightlife near them, connect and share location/status with friends on mobile devices, and promote nightlife events.
- ▶ Primarily responsible for iPhone client, mobile web application, and server-side code.
- ▶ Awards/Achievements
 - ▶ Grand Prize Winner of Google's Android Developers Contest I
 - ▶ Over 100,000+ downloads of application.

Senior Member of Technical Staff, Sandia National Lab., Livermore, CA

2001-2008

- ▶ Led efforts to create the future direction of the Computer Sciences and Information Systems Center through roadmapping efforts and seeking internal/external funding proposals.
- ▶ Promoted two years early (outside of regular promotion cycle), due to technical and business development achievements.
- ▶ Principal Investigator for DISCERN: DIStributed Camera Event Recognition Network – Awarded 575K
 - ▶ Invented distributed self-organizing algorithm for wireless sensor networks. Patent pending.
- ▶ Lead Developer for Seldon: multi-agent simulation on the recruitment processes of violent groups.
- ▶ Awards/Professional Development
 - ▶ Sandia OYOC (One-Year-On-Campus) Scholarship for Master's degree.
 - ▶ Sandia/CA Team Employer Recognition Award for SDAC (Sense, Decide, Act, Communicate) and IED Tech Assessment.
 - ▶ Recognized as having performed an "Important National Security Contribution."
 - ▶ Named Outstanding Contributor, the highest rating within Member of Technical Staff group.
 - ▶ Selected as one of three Global Business Network "Leader of the Future," across entire company.

Additional work experience available upon request.

EDUCATION

University of California, Los Angeles

2006-present

Ph.D. candidate in Computer Science under Prof. Deborah Estrin and Prof. Stefano Soatto.

Awards: UCLA Computer Science Department Fellowship, UCLA Chancellor's Prize, NSF Graduate Fellowship Honorable Mention

Massachusetts Institute of Technology

1998-2003

M.Eng. in Electrical Engineering and Computer Science (conc. in Artificial Intelligence)

B.S. in Electrical Engineering and Computer Science (minor in Computational Brain and Cognitive Sciences)

SKILLS & INTERESTS

LANGUAGES: JAVA, C, C++, Objective C, Ruby on Rails, MATLAB, TinyOS, μ COS, Perl

PLATFORMS: iPhone, Android, Amazon ec2, XScale, MSP430, ATMEL ATmega128L, JStamp

INTERESTS: Oil painting (<http://www.teresahko.com>)

SELECTED PUBLICATIONS

Detection and Categorization in Natural Environments

- ▶ T. Ko, S. Soatto, and D. Estrin. "Warping Background Subtraction." To appear in Computer Vision Pattern Recognition, June 2010.
- ▶ T. Ko, S. Soatto, and D. Estrin. "Categorization in Natural Time-Varying Image Sequences." In Computer Vision Pattern Recognition: Visual Interpretation and Understanding Workshop, June 2009.
- ▶ T. Ko, S. Soatto, and D. Estrin. "Background Subtraction on Distributions." In European Conference on Computer Vision, pages 222-230, October 2008.

Real-time Distributed Systems

- ▶ T. Ko, N. Berry, and R. Kyker. "A minimalistic approach to image processing for low-power sensor networks." In Proceedings for SPIE's Visual Information Processing. April 2004.
- ▶ T. Ko and N. Berry. "Distributed Feature Extraction for Event Identification." In Proceedings of European Symposium on Ambient Intelligence. November 2004.

Real-time visual interfaces

- ▶ T. Ko, D. Demirdjian, and T. Darrell. "Untethered Gesture Acquisition and Recognition for a Multimodal Conversation System." In Proceedings of ACM ICMI '03, Vancouver, BC, Canada, pages 147-150, November 2003.
- ▶ D. Demirdjian, T. Ko, and T. Darrell. "Constraining Human Body Tracking." In Proceedings of IEEE ICCV'03, Nice, France, pages 1071-1078, October 2003.

Social Network Simulation

- ▶ N. Berry, T. Ko, T. Moy, J. Smrcka, J. Turnely, and B. Wu. "Emergent Clique Formation in Terrorist Recruitment." In Proceedings of the Agent Organization: Theory and Practice Workshop in American Association for Artificial Intelligence. July 2004.
- ▶ T. Ko and N. Berry. "Agent-Based Modeling with Social Networks for Terrorist Recruitment." In Proceedings of American Association for Artificial Intelligence. July 2004.

Additional publications available upon request.