

JEREMY SCHIFF

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PROFESSIONAL INTERESTS

Statistical Learning/Modeling, Sensor Networks, Computer Vision, Distributed Systems, Real-time Systems, Entrepreneurship

EDUCATION

University of California, Berkeley

Ph.D. Candidate in Computer Science

Minor in Management of Technology

Classes: Advanced Topics in Computer Systems, Sensor Networks, Statistical Learning Theory, Computer Vision, Reliable Adaptive Distributed Systems, Project Management

8-2005 – Present

Cumulative GPA: **4.00/4.00**

UC Berkeley Fellow

University of California, Berkeley

BS Electrical Engineering & Computer Science

Graduated with High Honors

EECS Honor's Society (HKN)

8/2001 - 5/2005

Cumulative GPA: **3.85/4.00**

General Honor's Society (Golden Key)

EXPERIENCE

Alpha Lab - Research in Network Robotics, Berkeley, CA

6/2004 - Present

Researcher

- Research in visual privacy for cameras, real-time sensor-network localization, and distributed sensor-network inference.
- Researched integrating heterogeneous binary sensors into a unified system. The firing patterns are aggregated in real-time via Particle Filtering to track an intruder in a room, which we in turn document with a robotic camera.
- Advised undergraduates on Dynamic Panorama Generation, Demonstrate Applet demo and Real-Time Intruder Tracking.
- Designed, implemented, and integrated photo capture program into a robotic webcam used for multi-user collaboration (demonstrate.berkeley.edu).

Disease Management Services, Los Angeles, CA

1/2004 - Present

Software Architect

- Developed an Expert System involving parsing a graphical representation of finite automata to provide a medical diagnosis and treatment regimen for HIV/AIDS patients in the third world.
- Implemented prototype which was essential to raise the initial angel capital for the company.
- Supplied ongoing consulting and collaboration to medical and technical team.

TinyOS – Research in Sensor Networks, Berkeley, CA

2/2004 – 5/2004

Researcher

- Designed and implemented simulator for Pursuer Evader Game.
- Designed and implemented new version of Pursuer Evader Game that utilized a detection scheme, sacrificing granularity for frequency of wireless transmissions.

Harmonia – Research in Programming Environments, Berkeley, CA

6/2003 – 2/2004

Researcher

- Ported the Harmonia compiler from Linux to Windows .Net.
- Designed and implemented checking algorithm to verify correct semantics of lexing and parsing files for Harmonia.
- Wrote documentation to describe how to install Harmonia on Windows.

Agron Inc., Los Angeles, CA

Summer 2000

System Administrator

First Byte, Los Angeles, CA

Summer 1999

Technical Coordinator/Webmaster/Fundraiser

OTHER EXPERIENCE

- Supplied web hosting for small businesses.
- Experienced with Unix/Linux, Windows, Java, C++, C, C#, PHP, HTML, LISP and SQL.

PUBLICATIONS, POSTERS AND TALKS

- **Publication:** *Automated Intruder Tracking using Particle Filtering and a Network of Binary Motion Sensors*. Jeremy Schiff and Ken Goldberg. **IEEE International Conference on Automation Science and Engineering (CASE)**. Shanghai, China. Accepted July 2006.
- **Talk:** *Respectful Cameras*. Jeremy Schiff, Ken Goldberg, Marci Meingast, Deirdre Mulligan, and Pam Samuelson. **Exploring the Privacy Implications of Trustworthy Information Systems Workshop for TRUST researchers**. UC Berkeley, Berkeley, CA. October 5, 2006.
- **Poster:** *Networked Cameras for Security and Remote Observation of Natural Environments*. Ken Goldberg, Dezhen Song, Jeremy Schiff, Ted Schmidt, Bobby Gregg, Spencer Raiskin, Sarah Scott, Rehan Ryan Waliany, Ephrat Bitton, Andrew Dahl, **Corporate Sponsor Day Poster Session for CITRIS**, UC Berkeley, Berkeley, CA. May 2, 2006.
- **Poster:** *In-Network Belief Propagation on Sensor Networks*, Jeremy Schiff and Dominic Antonelli. **TinyOS Technology Exchange III**. Stanford University, Stanford, CA Feb 10, 2005
- **Poster:** *Networked Cameras for Security and Remote Observation of Natural Environments*. Ken Goldberg, Dezhen Song, Jeremy Schiff, Ted Schmidt, Bobby Gregg, Spencer Raiskin, Sarah Scott, Rehan Ryan Waliany, Ephrat Bitton, Andrew Dahl, **BEARS Poster Session for CITRIS**, UC Berkeley, Berkeley, CA. Feb 22, 2006

ART EXHIBITIONS

- Baldassari's Bubbles. Institute of Contemporary Art, San Jose, CA. Aug-Sept 2006
- Revolutionary Tides. Cantor Center for the Arts. Stanford, CA. Sep-Dec 2005.
- Alphaville Under Construction. www.inliquid.com, Philadelphia, PA. Sept-Oct 2005
- Making Things Public (online). ZKM, Karlsruhe, Germany, Mar-July 2005
- Artport. Whitney Museum of American Art. Sept 2004