

JEREMY SCHIFF

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PROFESSIONAL INTERESTS

Robotics, Entrepreneurship, Machine Learning, Probabilistic Modeling, Sensor Networks, Computer Vision, Tracking

EDUCATION

University of California, Berkeley

Ph.D. Candidate in Computer Science

Management of Technology Certificate

Designated Emphasis in New Media

8/2005 – Present (Graduation in June 2009)

Cumulative GPA: **3.96/4.00**

UC Berkeley Fellow

Outstanding GSI Award Recipient (2007)

CS Classes: Advanced Topics in Computer Systems (A+B), Sensor Networks, Statistical Learning Theory (2 courses), Reliable Adaptive Distributed Systems, Computer Vision (2 Courses), Combinatorial Algorithms and Data Structures, Software as a Service

Business Classes: Project Management, Opportunity Recognition, Entrepreneurship in Biotech, Customer Development, Marketing for High-Tech Entrepreneurs

University of California, Berkeley

BS Electrical Engineering & Computer Science

Graduated with High Honors

Honors Every Semester

8/2001 – 5/2005

Cumulative GPA: **3.85/4.00**

EECS Honor's Society (HKN)

Golden Key Honors Society

EXPERIENCE

FotoFlexer.com, Berkeley, CA

12/2006 - 2/2008

Co-Founder, President

- Responsible for all aspects of the company including strategy, technical development, marketing, advertising, business development, legal, and HR.

Automation Lab - Research in Network Robotics, Prof. Ken Goldberg, Berkeley, CA

6/2004 - Present

Researcher

- Perceptive Pallets: Real-time spatial tracking systems for ensuring safety in BioPharma warehouses.
- Actuator Networks: Autonomous navigation of an unobserved robot with active beacons.
- Respectful Cameras: Providing visual privacy to people observed by vision systems.
- StatSense: Framework for sensor-network localization, and distributed sensor-network inference using graphical modeling.
- SNARES: 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

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, Prof. David Culler, Berkeley, CA

2/2004 – 5/2004

Researcher

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

Harmonia – Research in Programming Environments, Prof Susan Graham, 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.

OTHER EXPERIENCE

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

BOOK CHAPTERS

- *Respectful Cameras: Detecting Visual Markers in Real-Time to Address Privacy Concerns*. Jeremy Schiff, Marci Meingast, Deirdre K. Mulligan, Shankar Sastry and Ken Goldberg, **Protecting Privacy in Video Surveillance Chapter**. Ed. Andrew Senior, Springer. To appear June 2009.

CONFERENCE PUBLICATIONS

- *Actuator Networks for Navigating an Unmonitored Mobile Robot*. Jeremy Schiff, Anand Kulkarni, Danny Bazo, Vincent Duindam, Ron Alterovitz, Dezhen Song and Ken Goldberg **IEEE Conference on Automation Science and Engineering (CASE)**. Washington DC. August 2008
- *Respectful Cameras: Detecting Visual Markers in Real-Time to Address Privacy Concerns*. Jeremy Schiff, Marci Meingast, Deirdre K. Mulligan, Shankar Sastry, and Ken Goldberg. **International Conference on Intelligent Robots and Systems (IROS)**. San Diego, California. October 2007.
- *Automated Tracking of Pallets in Warehouses: Beacon Layout and Asymmetric Ultrasound Observation Models*, Menasheh Fogel, Nathan Burkhart, Hongliang Ren, Jeremy Schiff, Max Meng, Ken Goldberg. . **International Conference on Automation Science and Engineering (CASE)** . Scottsdale, Arizona, September 2007
- *Robust Message Passing for Statistical Inference in Sensor Networks*. Jeremy Schiff, Dominic Antonelli, Alexandros Dimakis, David Chu, and Martin Wainwright.. **International Conference on Information Processing in Sensor Networks (IPSN)** . Cambridge, Massachusetts. April 2007
- *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.

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