

# DONALD J. PATTERSON

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## RESEARCH INTERESTS

Ubiquitous Computing, Human Computer Interaction, Computing within Limits, Artificial Intelligence

## EMPLOYMENT AND EDUCATION

### WESTMONT COLLEGE, SANTA BARBARA

Director of Technical Initiatives	2015 - present
Professor, Math & Computer Science Department	2018 - present
Associate Professor, Math & Computer Science Department	2015 - 2018

### UNIVERSITY OF CALIFORNIA, IRVINE

Visiting Professor/Researcher, Informatics Department	2016 - present
Director of the Laboratory for Ubiquitous Computing and Interaction	2006-2015
Associate Professor, Informatics / Computer Science Departments	2011/12 - 2016
Assistant Professor, Informatics Department	2005-2011

### OPEN PRESENCE, INC.

Co-Founder, Chief Technical Officer ( <a href="http://quub.com">quub.com</a> , <a href="http://swayr.com">swayr.com</a> , <a href="http://waitscout.com">waitscout.com</a> , <a href="http://audia.com">audia.com</a> )	2007 - 2014
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### UNIVERSITY OF WASHINGTON, SEATTLE

Ph.D., Computer Science & Engineering	1999-2005
Dissertation: "Assisted Cognition: Compensatory Activity Assistance Technology"	
Advisors: Professor Henry Kautz, Assistant Professor Dieter Fox	
M.S., Computer Science	

### U.S. NAVY

Operations Officer, La Maddalena, Italy, USS SIMON LAKE (AS-33)	1997 - 1999
Strike Officer, Yokosuka, Japan, USS CURTIS WILBUR (DDG-54)	1995 - 1997

### CORNELL UNIVERSITY Ithaca, NY

M.Eng., Electrical Engineering	1990-1995
Thesis: "Automatic ECG Monitoring using Neural Networks"	
B.S., Computer Science, with Distinction	

**HONORS & AWARDS**

<b>Teaching Award:</b> 2019 Teacher of the Year Award for Westmont College	2019
<b>Book Award:</b> Chapter in book awarded "Best in Computing" for 2014	Summer 2015
<b>Teaching Award:</b> Instructional Technology Innovation Award	Spring 2015
<b>Best Paper Nominee:</b> ICT for Sustainability	Summer 2014
<b>Student Award:</b> UCI Outstanding Professor - ICS School	Spring 2014
<b>Research Award:</b> Chancellor's Award for Excellence in Fostering Undergraduate Research	Spring 2014
<b>Impact Award:</b> Ten Year Impact Award (UBICOMP)	Fall 2013
<b>Teaching Award:</b> UCI Celebration of Teaching Award	Spring 2013
<b>Best Paper Award:</b> AI Journal Prominent Paper Award (5 year)	Summer 2012
<b>Best Paper Award:</b> Computing Community Consortium Sustainability Award (CHI 2012)	Spring 2012
<b>Teaching Award:</b> Dean's Award for Undergraduate Teaching	Spring 2008
<b>Best Paper Award:</b> Ninth IEEE International Symposium on Wearable Computers	Fall 2005
<b>Fellowship:</b> UW CSE Educators Fellowship	2004-2005
1-year graduate school tuition and stipend, competitive departmental award.	
<b>Teaching Award:</b> UW CSE Bob Bandes Teaching Assistant Award	2001
Annual cash award to the best student instructor in the department.	
<b>Fellowship:</b> National Defense Science and Engineering Graduate Fellowship	1999-2002
3-year graduate school tuition and stipend, competitive national award.	
<b>Scholarship:</b> Association of Naval Engineering Scholarship	1994-1995
Partial graduate school tuition and benefits, competitive national award.	
<b>Scholarship:</b> Naval Reserve Officer Training Corps Scholarship (NROTC)	1990-1994
4-year undergraduate tuition, benefits and stipend, competitive national award.	
<b>Award:</b> Eagle Scout Award	1989

PUBLICATIONS

BOOK CHAPTERS

**BCN-2** [Sensor Data Streams](#)

S. Volda, S. Patel, [Donald J. Patterson](#) in J.S. Olson, W. Kellogg (Eds.), Ways of Knowing in HCI, pp. 291-322, May 2014. (Role: Equal Author/ Researcher)

**BCN-1** [Pervasive Computing in the Home and Community](#)

[Donald J. Patterson](#), H. Kautz, D. Fox, L. Liao in Pervasive Computing in Healthcare, pp. 79-103, November 2006. (Role: Primary Author/ Primary Researcher)

CONFERENCE PROCEEDINGS

**CPR-2** [Proceedings of the 13th International Conference on Ubiquitous Computing](#)

J. Landay, Y. Shi, [Donald J. Patterson](#), Y. Rogers, X. Xie (Beijing, China) The 2011 ACM Conference on Ubiquitous Computing, 640 pages, ACM. (Role: Technical Program Committee Co-Chair)

**CPR-1** [Proceedings of the 6th International Conference on Pervasive Computing](#)

J. Indulska, [Donald J. Patterson](#), T. Rodden, M. Ott (Sydney, Australia) Lecture Notes in Computer Science 5013, 315 pages, Springer. (Role: Technical Program Committee Chair)

JOURNAL ARTICLES, PEER REVIEWED

**JR-14** [Computing within Limits](#)

B. Nardi, B. Tomlinson, [Donald J. Patterson](#), J. Chen, D. Pargman, B. Raghavan, B. Penzenstadler in Communications of the ACM 61(10), Oct. 2018. (Role: Equal Researcher/Author)

**JR-13** [Cacophony: Building a Resilient Internet of Things](#)

J. Brock, [Donald J. Patterson](#) in First Monday, 20(8), 3 Aug. 2015. (Role: Equal Researcher/Author)

**JR-12** [Haitian Resiliency: A Case Study in Intermittent Infrastructure](#)

[Donald J. Patterson](#) in First Monday, 20(8), 3 Aug. 2015. (Role: Sole Author)

**JR-11** [Collapse Informatics and Practice: Theory, Method, and Design](#)

B. Tomlinson, E. Blevis, B. Nardi, [Donald J. Patterson](#), M.S. Silberman, Y. Pan in Transactions on Computer Human Interaction, 20(4): 24:1 - 24:26, Sept. 2013. (Role: Equal Co-Author)

**JR-10** [Efficiently Scaling Up Crowdsourced Video Annotation: A Set of Best Practices for High Quality, Economical Video Labeling](#)

C. Vondrick, [Donald J. Patterson](#), D. Ramanan in International Journal of Computer Vision, 101(1): 184-204 (September 2013). (Role: 50% Advisor)

**JR-9** [Informing and Performing: Investigating How Mediated Sociality Becomes Visible](#)

X. Ding, T. Erickson, W. Kellogg, [Donald J. Patterson](#) in Personal and Ubiquitous Computing, 16(8): 1095-1117, Dec 2012 (Role: Co-Author/Co-Advisor)

**JR-8** [Supporting the Transition from Hospital to Home for Premature Infants Using Integrated Mobile Computing and Sensor Support](#)

G. Hayes, [Donald J. Patterson](#), M. Singh, D. Gravem, J. Rich, D. Cooper in Personal and Ubiquitous Computing, 15(8): 871-885 Dec 2011. (Role: 50% Author/ 50% Advisor)

**JR-7** [Assessment of Infant Movement with a Compact Wireless Accelerometer System](#)

D. Gravem, M. Singh, C. Chen, J. Rich, J. Vaughan, K. Goldberg, F. Waffarn, P. Chou, D. Cooper, D. Reinkensmeyer, [Donald J. Patterson](#) in the Journal of Medical Devices, 6(2), June 2012. (Role: 50% Author/ 50% Advisor)

**JR-6** [Overcoming Blind Spots in Interaction Design: A Case Study in Designing for African AIDS Orphan Care Communities](#)

[Donald J. Patterson](#), S. Sim, T. Aiyelokun in Information Technologies and International Development, 5(4): 75-88, Dec 2009. (Role: Primary Author/ Primary Researcher)

**JR-5** [An Ecosystem For Learning and Using Sensor-Driven IM Messages](#)

[Donald J. Patterson](#), X. Ding, S. J. Kaufman, K. Liu, A. Zaldivar. IEEE Pervasive Computing Magazine, Jan-Mar 2009. (Role: Primary Author/Primary Researcher)

**JR-4** [Building Personal Maps from GPS Data](#)

L. Liao, [Donald J. Patterson](#), D. Fox, and H. Kautz in Annals of New York Academy of Sciences, 1093: 249-265, February 2007. (Special Journal Issue from Invited Conference Papers) (Role: 50% Author/ 50% Researcher)

PUBLICATIONS (CONTINUED)

- JR-3** **Learning and Inferring Transportation Routines**  
\* **AI JOURNAL 5-YEAR PROMINENT PAPER AWARD**  
L. Liao, Donald J. Patterson, D. Fox, and H. Kautz in Artificial Intelligence Journal, 171: 311-331, January 2007. (Role: 50% Author/ 50% Researcher)
- JR-2** **Serum Phosphate Levels and Mortality Risk Among People with Chronic Kidney Disease**  
B. Kestenbaum, J. N. Sampson, K. D. Rudser, Donald J. Patterson, S. L. Seliger, B. Young, D. J. Sherrard, D. L. Andress in the Journal of the American Society of Nephrology, 16: 520-528, 2005. (Role: Contributing Author/ 100% Data Mining/Analysis)
- JR-1** **Inferring Activities from Interactions with Objects**  
M. Philipose, K. P. Fishkin, M. Perkowitz, Donald J. Patterson, D. Hahnel, D. Fox, H. Kautz. 3(4): 50-57, Oct-Dec 2004 IEEE Pervasive Computing Magazine. (Role: Contributing Author/ 50% Researcher)

PUBLICATIONS (CONTINUED)

CONFERENCE PAPERS, PEER REVIEWED

- CR-25** **Computational Agroecology: Sustainable Food Ecosystem Design**  
B. Raghavan, J. Norton, B. Nardi, B. Tomlinson, S. Lovell and Donald J. Patterson, Published in the proceedings of CHI 2016 alt.chi, pp. 423-435, May 2016. (Role: Contributing Author) (Acceptance Rate: Not Available).
- CR-24** **ICT4S 2029: What will be the systems supporting sustainability in 15 years?**  
\* **BEST PAPER NOMINEE**  
B. Penzenstadler, B. Tomlinson, E. Baumer, M. Pufal, A. Raturi, D. Richardson, B. Cakici, R. Chitchyan, G. Da Costa, L. Dombrowski, M. Edwardsson, E. Eriksson, X. Franch, G. R. Hayes, C. Herzog, W. Lohmann, M. Mahaux, A. Mavin, M. Mazmanian, S. Nayebaziz, J. Norton, D. Pargman, Donald J. Patterson, J. Pierson, K. Roher, M. Silberman, K. Simonson, A. Torrance and A. van der Hoek Proceedings of 2nd Intl' Conference on ICT for Sustainability (ICT4S 2014). (Role: Equal Author) (Acceptance Rate: 50%) (Best Paper Rate: 8%) .
- CR-23** **CHI 2039: Speculative Research Visions**  
E. Baumer, J. Ahn, M. Bie, E. Bonsignore, A.Börütecene, O. Buruk, T. Clegg, A. Druin, F. Echtler, D. Gruen, M. Guha, C. Hordatt, A. Krüger, S. Maidenbaum, M. Malu, B. McNally, M. Muller, L. Norooz, J. Norton, O. Ozcan, Donald J. Patterson, A. Riener, S. Ross, K. Rust, J. Schöning, M. Silberman, B. Tomlinson, and J. C. Yip. In CHI Extended Abstracts, pages 761-770. ACM, 2014. (Role: Equal Author).
- CR-22** **Detecting Cooking State with Gas Sensors During Dry Cooking**  
S. Hirano, J. Brubaker, Donald J. Patterson, G. Hayes. Proceedings of 2013 ACM Int'l Conference on Ubiquitous Computing (UBICOMP 2013) (Role: Advisor) (Acceptance Rate: 18%).
- CR-21** **Interchange: Bidding for Green Lights**  
N. Shantharam, T. Strang, Donald J. Patterson. Published in the Proceedings of 2013 IEEE Int'l Conference on Pervasive Computing and Communications Workshops (Percom 2013) (Role: Research Supervisor/ 50% Researcher) (Acceptance Rate: 54%).
- CR-20** **Augmenting Gesture Recognition with Erlang-Cox Models To Identify Neurological Disorders in Premature Babies**  
M. Fan, D. Gravem, D. Cooper, Donald J. Patterson. Published in the proceedings of 2012 ACM Conference on Ubiquitous Computing (UBICOMP 2012) September 2012 (Role: Primary Author/ 50% Researcher) (Acceptance Rate: 19.3%).
- CR-19** **Massively Distributed Authorship of Academic Papers**  
B. Tomlinson, J. Ross, P. André, E. Baumer, Donald J. Patterson, et.al.. Published in the extended abstracts of 2012 Conference of Human Factors in Computer Systems (alt.chi 2012) May 2012 (Role: Equal Co-author) (Acceptance Rate: 47%).
- CR-18** **Collapse Informatics: Augmenting the Sustainability & ICT4D Discourse in HCI**  
\* **CCC SUSTAINABILITY AWARD & BEST PAPER NOMINEE**  
B. Tomlinson, M. Six Silberman, Donald J. Patterson, Yue Pan, Eli Blevis. Published in the proceedings of 2012 Conference of Human Factors in Computer Systems (CHI 2012) May 2012 (Role: Equal Co-author) (Acceptance Rate: 23%).
- CR-17** **Involuntary Gesture Recognition for Predicting Cerebral Palsy in High-Risk Infants**  
M. Singh, Donald J. Patterson. Published in the proceedings of International Symposium on Wearable Computing (ISWC 2010), October 2010. (Role: Primary Author/ 50% Researcher) (Acceptance Rate: 21%).

PUBLICATIONS (CONTINUED)

- CR-16 Efficiently Scaling Up Video Annotation with Crowdsourced Marketplaces**  
C. Vondrick, D. Ramanan, Donald J. Patterson. Published in the proceedings of European Conference on Computer Vision (ECCV 2010), September 2010. (Role: 50% Author/ 50% Advisor) (Acceptance Rate: 27%).
- CR-15 Twitter, Sensors and UI: Robust Context Modeling for Interruption Management**  
J. Tang, Donald J. Patterson. Published in the proceedings of User Modeling and Personalization 2010 (UMAP 2010), pp. 123-134, June 2010. (Role: Author/ Advisor) (Acceptance Rate: 23%).
- CR-14 Getting Places: Collaborative Predictions from Status**  
M. Monibi, Donald J. Patterson. Published in the proceedings of the 2009 Ambient Intelligence Conference (AmI 2009), November, 2009. (Role: Author/ Advisor/ 25% Researcher) (Acceptance Rate: 30%).
- CR-13 Constructing Topological Maps of Displays with 3-D Positioning Information**  
Donald J. Patterson. Published in the proceedings of the 2009 Ambient Intelligence Conference (AmI 2009), pp. 49-54, November, 2009. (Acceptance Rate: 30%).
- CR-12 Status on Display: a Field Trial of Nomatic\*Viz**  
X. Ding, Donald J. Patterson. Published in the proceedings of the 2009 European Conference on Computer Supported Cooperative Work (ECSCW 2009), pp. 303-322, September 7, 2009. (Role: Contributing Author/ Advisor/ 25% Researcher) (Acceptance Rate: 19%).
- CR-11 Global Priors of Place and Activity Tags**  
Donald J. Patterson Published in the proceedings of the 2009 AAAI Spring Symposium: Human Behavior Modeling, pp. 75-79, March 2009.
- CR-10 Online Everywhere: Evolving Mobile Instant Messaging Practices**  
Donald J. Patterson, C. Baker, X. Ding, S. Kaufman, K. Liu, A. Zaldivar. Published in the proceedings of the 10th International Conference on Ubiquitous Computing (UbiComp 2008), pp. 64-73, September 2008. (Role: Primary Author/ Primary Researcher) (Acceptance Rate: 18%).
- CR-9 Interactive and Intelligent Visual Communication Systems**  
G. Hayes, Donald J. Patterson, M. Monibi, S. Kaufman. Published in the proceedings of the 7th International Conference on Interaction Design and Children (IDC 2008), June 11, 2008. (Role: 50% Advisor) (Acceptance Rate: Not Available).
- CR-8 Involving Intelligent Assistants in Active Human Communication**  
Donald J. Patterson Published in the proceedings of the 2007 AAAI Spring Symposium: Interaction Challenges for Intelligent Assistants, pp. 98-99, March 2007. (Acceptance Rate: Not Available).
- CR-7 Nomatic: Location by, for, and of crowds**  
Donald J. Patterson, X. Ding, N. Noack. Published in the proceedings of the Second International Workshop on Location and Context-Awareness (LoCA 2006), pp. 186-203, May 2006. (Role: Primary Author/ 50% Researcher) (Acceptance Rate: 23%).
- CR-6 Fine-Grained Activity Recognition by Aggregating Abstract Object Usage**  
\* **BEST PAPER AWARD**  
Donald J. Patterson, D. Fox, H. Kautz, M. Philipose. Published in the proceedings of the Ninth IEEE International Symposium on Wearable Computers (ISWC 2005), pp. 44-51, October 2005. (Role: Primary Author/ Primary Researcher) (Acceptance Rate: 25%).
- CR-5 Opportunity Knocks: a System to Provide Cognitive Assistance with Transportation Services**  
Donald J. Patterson, L. Liao, K. Gajos, M. Collier, N. Livic, K. Olson, S. Wang, D. Fox, H. Kautz. Published in the proceedings of the Sixth International Conference on Ubiquitous Computing (UbiComp 2004), pp. 433-450, September 2004. (Role: Primary Author/ Primary Researcher) (Acceptance Rate: 18%).
- CR-4 Mining Models of Human Activities from the Web**  
M. Perkowski, M. Philipose, Donald J. Patterson, K. Fishkin. Published in the proceedings of The Thirteenth International World Wide Web Conference (WWW 2004), pp. 573-582, May 2004. (Role: Contributing Author/ 50% Researcher) (Acceptance Rate: 14.6%).

PUBLICATIONS (CONTINUED)

- CR-3 Contextual Computer Support for Human Activity**  
Donald J. Patterson, D. Fox, H. Kautz, K. P. Fishkin, M. Perkowski, M. Philipose. Published in the proceedings of the 2004 AAAI Spring Symposium: Interaction between Humans and Autonomous Systems over Extended Operations, 2 pages, March 2004. (Role: Primary Author/ Primary Researcher) (Acceptance Rate: Not Available).
- CR-2 Inferring High-Level Behavior from Low-Level Sensors**  
Donald J. Patterson, L. Liao, D. Fox, H. Kautz. Published in the proceedings of the Fifth International Conference on Ubiquitous Computing (UbiComp 2003), pp. 73-89, October 2003. (Role: Primary Author/ Primary Researcher) (Acceptance Rate: 14%).
- CR-1 pre-mRNA Secondary Structure Prediction Aids Splice Site Prediction**  
Donald J. Patterson, K. Yasuhara, W. L. Ruzzo. Published in the proceedings of Pacific Symposium on Biocomputing (PSB 2002), pp. 223-234, January 2002. (Role: Primary Author/ 50% Researcher) (Acceptance Rate: Not Available).

PROFESSIONAL MAGAZINES/ONLINE ARTICLES

- M-9 Breaking Down the College Transaction: Five Points for Parents**  
Donald J. Patterson. Medium.com, Oct. 2018. (403 views)
- M-8 A Collection of Three Word Brand Haikus**  
Donald J. Patterson. Medium.com, Sept. 2018. (27 views)
- M-7 Anxiety and Activism in Transgender Bathroom Signs**  
Donald J. Patterson. Medium.com, Feb 2018. (125 views)
- M-6 Special Issue on Sustainable HCI Education**  
B. Nardi, B. Tomlinson, Donald J. Patterson. ACM Interactions 23(6):34-43 Oct. 26, 2016
- M-5 Teaching Global Disruption and Information Technology Online**  
B. Tomlinson, Donald J. Patterson, B.Nardi. ACM Interactions 23(6):40-43 Oct. 26, 2016
- M-4 A French Affair Dot Com**  
Donald J. Patterson, Horizons, Westmont Campus Newspaper
- M-3 Take Charge of Your Family's Digital Culture**  
Donald J. Patterson, S. Patterson. Medium.com, Dec 2014. (2100 views).
- M-2 What if Sustainability Doesn't Work Out?**  
B. Tomlinson, Donald J. Patterson, Y. Pan, E. Bleviss, B. Nardi, M.S. Silberman, J. Norton, J. LaViola. ACM Interactions 19(6):50-55 Nov/Dec 2012.
- M-1 Micro-presence: Changing the 'Status' Quo**  
Donald J. Patterson, May 16, 2009. (<http://blogs.zdnet.com/feeds/?p=1221>)

CONFERENCE WORKSHOP PAPERS, PEER REVIEWED

- WR-12 A Report from an Online Course on Global Disruption and Information Technology**  
B. Tomlinson, Donald J. Patterson and B.Nardi, Published in the proceedings of LIMITS 2016, pp. 7:1-7:7 June 2016. (Role: Equal Author) (Acceptance Rate: Not Available).
- WR-11 Haitian Resiliency: A Case Study in Intermittent Infrastructure**  
Donald J. Patterson Published in the proceedings of LIMITS 2015, June 2015. (Acceptance Rate: Not Available).
- WR-10 Cacophony: Building a Resilient Internet of Things**  
J. Brock, Donald J. Patterson Published in the proceedings of LIMITS 2015, June 2015. (Acceptance Rate: Not Available).
- WR-9 Informatics at UC Irvine**  
P. Dourish, G. Hayes, L. Irani, C. Lee, S. Lindtner, B. Nardi, Donald J. Patterson, B. Tomlinson  
Published in the proceedings of CHI 2008 Research Landscapes, pp. 3651-3656, April 2008. (Role: Contributing Author/ Research Team Member) (Acceptance Rate: Not Available).
- WR-8 Nomatic Bubbles: Visualizing Communal Whereabouts**  
X. Ding, Donald J. Patterson, Published in the proceedings of CHI 2008 Student Research Competition, pp. 3765-3770, April 2008. (Role: Contributing Author/ Advisor/ 50% Researcher) (Acceptance Rate: Not Available).

PUBLICATIONS (CONTINUED)

- WR-7 Building Personal Maps from GPS Data**  
L. Liao, Donald J. Patterson, D.Fox, and H.Kautz. Published in the proceedings of Modeling Others from Observations (MOO 2005), 7 pages, July 2005. (Role: Contributing Author/ Research Team Member) (Acceptance Rate: Not Available).
- WR-6 Guide: Towards Understanding Daily Life via Auto-Identification and Statistical Analysis**  
M. Philipose, K. P. Fishkin, D. Fox, H. Kautz, Donald J. Patterson, M. Perkowitz. Published in the proceedings of the UbiHealth 2003: The 2nd International Workshop on Ubiquitous Computing for Pervasive Healthcare Applications, 5 pages, October 2003. (Role: Contributing Author/ Research Team Member) (Acceptance Rate: Not Available).
- WR-5 Expressive, Tractable and Scalable Techniques for Modeling Activities of Daily Living**  
Donald J. Patterson, D. Fox, H. Kautz, M. Philipose. Published in the proceedings of the UbiHealth 2003: The 2nd International Workshop on Ubiquitous Computing for Pervasive Healthcare Applications, 4 pages, October 2003. (Role: Primary Author/ Primary Researcher) (Acceptance Rate: Not Available).
- WR-4 Research on Statistical Relational Learning at the University of Washington**  
P. Domingos, Y. Abe, C. Anderson, A. Doan, D. Fox, A. Halevy, G. Hulton, H. Kautz, T. Lau, L. Liao, J. Madhavan, Mausam, Donald J. Patterson, M. Richardson, S. Sanghai, D. Weld, S. Wolfman. 4 pages. Published in the proceedings of the IJCAI-2003 Workshop on Learning Statistical Models from Relational Data. (Role: Contributing Author/ Research Team Member) (Acceptance Rate: Not Available).
- WR-3 Intelligent Ubiquitous Computing to Support Alzheimer's Patients: Enabling the Cognitively Disabled**  
Donald J. Patterson, O. Etzioni, D. Fox, H. Kautz. Published in the proceedings of UbiCog '02: First International Workshop on Ubiquitous Computing for Cognitive Aids, 2 pages, September 2002. (Role: Primary Author/ Primary Researcher) (Acceptance Rate: Not Available).
- WR-2 The Activity Compass**  
Donald J. Patterson, O. Etzioni, D. Fox, H. Kautz. Published in the proceedings of UbiCog '02: First International Workshop on Ubiquitous Computing for Cognitive Aids September 2002. (Role: Primary Author/ Primary Researcher) (Acceptance Rate: Not Available).
- WR-1 Auto-Walksat: A Self-Tuning Implementation of Walksat**  
Donald J. Patterson, H. Kautz. Published in the proceedings of SAT2001: Workshop on Theory and Application of Satisfiability Testing, 8 pages, June 2001. (Role: Primary Author/ Primary Researcher) (Acceptance Rate: Not Available).



PUBLICATIONS (CONTINUED)

CONFERENCE PAPERS, INVITED

**CI-1 [Toward Alternative Decentralized Infrastructures](#)**

B. Tominon, B. Nardi, [Donald J. Patterson](#), A. Raturi, D. Richardson, J. Saphores and D. Stokols  
Proceedings of the Sixth ACM Symposium on Computing for Development (DEV 2015). (Role:  
Equal Contributing Author).

CONFERENCE WORKSHOP PAPERS, INVITED

**WI-3 [Supporting Individuals with Special Needs through Intelligent Visual Schedules](#)**

G. Hayes, [Donald J. Patterson](#) presented at the 2007 Workshop on Intelligent Systems for Assisted  
Cognition Oct. 12, University of Rochester. (Role: 50% Author) (Invited)

**WI-2 [Behavior Recognition in Assisted Cognition](#)**

L. Liao, [Donald J. Patterson](#), D. Fox, H. Kautz. Published in the proceedings of the 2004 AAAI  
Workshop on Supervisory Control of Learning and Adaptive Systems, July 2004. (Role: Member of  
Research Team) (Invited)

**WI-1 [Bayesian Techniques for Location Estimation](#)**

D. Fox, J. Hightower, H. Kautz, L. Liao, [Donald J. Patterson](#). Published in the proceedings of the  
2003 Workshop on Location-Aware Computing (LoCA 2003). (Role: Member of Research Team)  
(Invited)

TECHNICAL REPORTS

**TN-7 [LUCI Lab Annual Report 2008-2009](#)**

LUCI Lab 2009-003. [Donald J. Patterson](#).

**TN-6 [Measuring Display Interaction in the Presence of Context Information](#)**

LUCI Lab 2009-002. K. Liu, [Donald J. Patterson](#) (Role: Advisor).

**TN-5 [Status on Display: A Field Trial of Nomatic\\*Viz](#)**

LUCI Lab 2009-001. X. Ding, [Donald J. Patterson](#) (Role: Advisor).

**TN-4 [Understanding the Digital Divide in Southern Africa](#)**

LUCI Lab 2008-002. T. Aiyelokun, [Donald J. Patterson](#) (Role: Advisor).

**TN-3 [Sporadic State Estimation for General Activity Inference](#)**

Intel Research Seattle 04-003. [Donald J. Patterson](#), D. Fox, H. Kautz, M. Philipose. (Role: Primary  
Author/ Primary Researcher).

**TN-2 [Modeling Details of the Activity Tracker](#)**

Intel Research Seattle 04-003A. [Donald J. Patterson](#).

**TN-1 [The Probabilistic Activity Toolkit: Towards Enabling Activity-Aware Computer Inter-  
faces](#)**

Intel Research Seattle 03-013. M. Philipose, K. Fishkin, M. Perkowitz, [Donald J. Patterson](#), D.  
Hahnel (Role: Contributing Author/ Research Team Member) (Acceptance Rate: Not Available)..

PUBLICATIONS (CONTINUED)

SOFTWARE

- CODE 5 **Witness This Media** 1/1/2019  
v0.0.1 a blockchain based approach to media verification
- CODE 4 **cacophony** 9/1/2014  
v0.0.1 a machine learning layer for the Internet of Things
- CODE 3 **p2p4android** 9/1/2014  
v0.0.1 a peer-to-peer collapse-resistant communication system for Android
- CODE 2 **p2p4java** 9/1/2014  
v0.1.7 a peer-to-peer collapse-resistant communication system
- CODE 1 **luci-utility** 9/1/2014  
v0.0.9 tools for LUCI lab software
- WEB-3 **RISCIT: The Center for Research in Sustainability, Collapse-Preparedness and Information Technology**  
<http://riscit.ics.uci.edu> Donald J. Patterson, B. Tomlinson.
- WEB-2 **Collapse-o-matic: The study, design, and development of sociotechnical systems in the abundant present for use in a future of scarcity**  
<http://www.collapseomatic.com> Donald J. Patterson, B. Tomlinson.
- WEB-1 **The Laboratory for Ubiquitous Computing and Interaction**  
<http://luci.ics.uci.edu> Donald J. Patterson.

ARTISTIC/MUSEUM EXHIBITS

- A-2 **“Bitcoins”, Gold To Gigabytes, The British Museum/UCI Dept. of Anthropology**  
Academic, Local, Refereed Exhibit of money through the years.  
3-D printed physical research bitcoins were displayed
- A-1 **Optical Society of Southern California**  
First Place, 2009 Competitive Exhibition of Art in Science.

Donald J. Patterson

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**GRANTS & GIFTS**

<b>G-31</b>	<b>NIH SBIR (Sub): Cerebral Palsy Risk Identification System</b>	\$300,502	9/1/2018
<b>G-30</b>	<b>Westmont (PI): Using AI to Organize the Internet of Things</b>	\$3,600	8/1/2018
<b>G-29</b>	<b>Westmont (PI): Green Gutter Gardening: Supporting Urban Agriculture with Artificial Intelligence</b>	\$2,600	12/20/2016
<b>G-28</b>	<b>NSF (PI): CyberSEES: Fostering Non-Expert Creation of Sustainable Polycultures through Crowdsourced Data Synthesis</b>	\$399,000	1/1/2015
<b>G-27</b>	<b>UC ILTI (Co-PI): Global Disruption and IT</b>	\$110,000	3/27/2014
<b>G-26</b>	<b>UCI COR (Co-PI): U/I Research in Context Queries</b>	\$1,000	5/1/2014
<b>G-25</b>	<b>Google (Co-PI): Google Glass Accessibility Awards: Visual Supports for People with Autism Spectrum and other Neuro-developmental Disorders</b>	\$27,485	3/3/2014
<b>G-24</b>	<b>Intel ISTC (PI): Physical Bitcoin Prototypes</b>	\$11,311	7/5/2013
<b>G-23</b>	<b>UCI UROP (PI): Shared Point Clouds and 3D Models for AR</b>	\$500	7/1/2013
<b>G-22</b>	<b>UCI CORCL (CoPI): Permaculture for Climate Disruption</b>	\$15,000	6/1/2013
<b>G-21</b>	<b>UCI MDP (PI): Ugrad Workshop in Design,Art &amp; Technology</b>	\$1,182	7/1/2013
<b>G-20</b>	<b>UCI UROP (PI): Depth Sensor Based Augmented Reality</b>	\$350	1/15/2013
<b>G-19</b>	<b>Intel Science and Technology Center for Social Computing (Co-PI): PIs Dourish &amp; Maurer, Co-PIs Boelstorf, Bowker, Hayes, Mazmanian, Patterson, Philip</b>	\$6,000,000 (\$2,745,000 UCI)	6/2012 - 5/2015
<b>G-18</b>	<b>CalIT2 MDP (PI): Bootstrapping a Hackerspace</b>	\$1,450	4/11/2012
<b>G-17</b>	<b>UCI OTA Tech Dev Fund (Co-PI): Accelerometer Funding</b>	\$5,000/\$50,000	8/31/2011
<b>G-16</b>	<b>CalIT2 MDP (PI): Bootstrapping a Hackerspace</b>	\$1,450	4/11/2011
<b>G-15</b>	<b>NIH R01 (Sub-PI): Accelerometer Funding</b>	\$5,000/\$3,800,000	10/25/2010
<b>G-14</b>	<b>UCI CORCLR (PI): Graduate Student Travel: UMAP 2010</b>	\$1,850	6/19/2010
<b>G-13</b>	<b>Amazon.com (PI): Information Retrieval Class Grant</b>	\$3,500	12/17/2009
<b>G-12</b>	<b>ICS CRIA (PI): Newborn Intensive Care Activity Recognition</b>	\$13,181	12/1/2008
<b>G-11</b>	<b>ICS Smith Seed Fund (PI): Context-Aware To-Do Lists</b>	\$5,000	5/6/2008
<b>G-10</b>	<b>Qualcomm (PI): Gift to support research workshop</b>	\$500	12/7/2007
<b>G-9</b>	<b>NSF (PI): HCC: Computing Place Context (IIS-0713562)</b>	\$449,765	9/1/2007
<b>G-8</b>	<b>SURF-IT (PI): Nomatic*AID</b>	\$3,000	4/29/2007
<b>G-7</b>	<b>SURF-IT (PI): Nomatic*Gaim</b>	\$3,000	4/29/2007
<b>G-6</b>	<b>MTS Sensors (PI): Gift to support mapping research</b>	\$250	2/12/2007
<b>G-5</b>	<b>FDCI (PI): School grant for lab equipment</b>	\$2,700	2/7/2007
<b>G-4</b>	<b>Nokia (PI): Equipment Gift (10 phones and 10 GPS's)</b>	\$4,500	9/7/2006
<b>G-3</b>	<b>UCI CORCLR (PI): User Study Funding Grant</b>	\$1,600	12/30/2006
<b>G-2</b>	<b>UCI CORCLR (PI): Africa Field Work Funding Grant</b>	\$3,500	6/30/2006
<b>G-1</b>	<b>ICS Smith Seed Fund (PI): Wi-Fi Research Grant</b>	\$5,000	11/7/2005

PRESENTATIONS

PEER-REVIEWED

<b>PR-12</b>	<b>Collaborative Geometry-Aware Augmented Reality</b> 2012 MobileHCI	9/13/2014
<b>PR-11</b>	<b>When Camera meets Accelerometer: A Way for 3D Int. of Mobile Phone</b> 2012 MobileHCI	5/21/2012
<b>PR-10</b>	<b>Assessment of Infant Movement Using Infant Accelerometer System</b> 2010 Pediatric Academic Societies' Annual Meeting	5/4/2010
<b>PR-9</b>	<b>Design of Interactive Visual Scheduling Systems</b> IMFAR 2008: International Meeting for Autism Research	5/17/2008
<b>PR-8</b>	<b>Nomatic: Context Aware Instant Messaging</b> UbiComp 2007: 9th Intl. Conf. on Ubiq. Computing	9/16/2007
<b>PR-7</b>	<b>Automatic Window Resizing And Its Impact On User Productivity</b> 21st National Conference on Undergraduate Research	4/12/2007
<b>PR-6</b>	<b>Involving Intelligent Assistants in Active Human Communication</b> AAAI Spring Symposium 2007: Interaction Challenges for Intelligent Assistants	3/27/2007
<b>PR-5</b>	<b>Nomatic*Gaim: Context-Aware Instant Messaging</b> UbiComp 2006: 8th Intl. Conf. on Ubiq. Computing	9/19/2006
<b>PR-4</b>	<b>Nomatic*Aid: Parasitic Data Transport for Crisis Response</b> UbiComp 2006: 8th Intl. Conf. on Ubiq. Computing	9/19/2006
<b>PR-3</b>	<b>Nomatic*Gaim: Context-Aware Instant Messaging</b> Pervasive 2006: 4th Intl. Conf. on Pervasive Computing	5/8/2006
<b>PR-2</b>	<b>Fast, Detailed Inference of Diverse Daily Human Activities</b> UIST 2004: Demonstration	10/24/2004
<b>PR-1</b>	<b>Fast, Detailed Inference of Diverse Daily Human Activities</b> UbiComp 2004: Demonstration	9/7/2004

PRESENTATIONS (CONTINUED)

INVITED - EXTERNAL

PI-46	<b>The Art and Science of Machine Learning</b> MIT Enterprise Forum Central Coast	10/17/2019
PI-44	<b>A Tale of Two Surveillance Cultures</b> Lead Where You Stand Conference, Santa Barbara	6/07/2019
PI-42	<b>A.I., Machine Learning and Technology-driven Innovation</b> Lead Where You Stand Conference, Santa Barbara	6/08/2018
PI-41	<b>Bitcoin and Blockchain, An introduction</b> Victoria University of Wellington	5/01/2018
PI-38	<b>The Smart Machines of Tomorrow</b> Santa Barbara High School Computer Science Academy	9/26/2017
PI-37	<b>Navigating the Digital Future</b> Lead Where You Stand Conference, Santa Barbara	5/31/2017
PI-36	<b>Should We Hide From Big Data</b> Westmont Downtown: Conversations about Things that Matter, Santa Barbara	4/13/2017
PI-35	<b>Haiti's Grid Isn't Smart, It's Futuristic</b> Newkirk Center for Science And Society	12/3/2015
PI-34	<b>Generics in Java</b> Westmont College	1/29/2015
PI-33	<b>Transition Informatics</b> Westmont College	1/28/2015
PI-32	<b>Collaborative geometry-aware augmented reality with depth sensors</b> UBICOMP 2014	9/13/2014
PI-25	<b>In The Cloud Computing Trenches: Obs., Reflections and Experiences</b> TechnoNet, Northrop Grumman	11/16/2011
PI-23	<b>Collapse Computing</b> 2011 Workshop Uniting the Californias, UCMEXUS	11/12/2011
PI-22	<b>Distinguishing Trans. and Rotation for Real-time Phone Gesture Interaction</b> 2011 Workshop Uniting the Californias, UCMEXUS	11/12/2011
PI-21	<b>Efficiently Scaling Up Video Annotation with Crowdsourced Marketplaces</b> California Institute of Technology, CalVision Workshop	5/6/2010
PI-20	<b>Social Media for the Church: Opportunities and Challenges</b> Vanguard University, National Leadership of Assemblies of God	2/26/2010
PI-19	<b>Status Quo: Micro-presence in an Always Online World</b> UCLA CENS Technical Seminar Series	12/4/2009
PI-18	<b>Ambient Intelligence is Not Sustainable</b> University of Salzburg, Panel for Ambient Intelligence 2009	11/19/2009
PI-17	<b>Intelligent Context for Situated Computing</b> Ubiquity Research Strategy Forum, CALIT2 - UCSD	9/9/2009
PI-16	<b>Status Quo: Micro-presence in an always online world</b> University of Washington, CSE, DesignUseBuild Seminar	9/2/2009
PI-15	<b>Software Engineering for Ubiquitous Computing</b> Korean Research Institute for Human Settlements	8/2/2009
PI-14	<b>Status Quo: Micro-Presence in an Always Online World</b> US Army Scientific Advisory Board	7/17/2009
PI-12	<b>Human Behavior Modelling</b> Association for the Advancement of Artificial Intelligence Symposium Panel	3/23/2009
PI-8	<b>Nomatic: Intelligent Context for Situated Computing</b> Microsoft Research Redmond	10/1/2007

PRESENTATIONS (CONTINUED)

INVITED - EXTERNAL (CONTINUED)

<b>PI-6</b>	<b>Nomatic: Location {by, for, of} Crowds</b>	2/1/2006
	SIGCHI: O.C. Local Chapter	
<b>PI-4</b>	<b>Fine-Grained Activity Recognition by Aggregating Abstract Object Usage</b>	11/3/2005
	AAAI Fall Symposium on Caring Machines: AI in Eldercare	
<b>PI-3</b>	<b>Fine-grained Model-based Activity Recognition from RFIDs</b>	12/17/2004
	NIPS 2004: Workshop on Activity Recognition and Discovery	
<b>PI-2</b>	<b>A Modeling Language for Activity Recognition</b>	9/6/2004
	Intel Research Cambridge	
<b>PI-1</b>	<b>Future Technology for the Aging</b>	3/16/2004
	Two presentations made to congressional staff and policy makers at Senate offices in Washington D.C. in conjunction with the CAST Conference	

PRESENTATIONS (CONTINUED)

INVITED - INTERNAL

PI-45	<b>Obfuscation: Tools to Tackle Tough Questions at Westmont</b> Westmont College First Lecture	8/23/2019
PI-43	<b>Artificial Intelligence, Data Analytics and Technology-driven Innovation</b> Board of Trustees, Westmont College	1/25/2019
PI-40	<b>Speed, Solutions and Silicon: The Role of Technology in Everyday Life</b> Board of Advisors, Westmont College	11/3/2017
PI-39	<b>Speed, Solutions and Silicon: The Role of Technology in Everyday Life</b> Wallace Emerson Society, Westmont College	10/13/2017
PI-31	<b>Exploring the Design Space of Browser-Generated Spatial Audio Cues</b> Institute for Software Research, UCI	5/27/2016
PI-30	<b>Sensors for Context-Aware Computing</b> Department of Epidemiology, UCI	10/4/2013
PI-29	<b>A Novel Depth Sensor Based Approach to Augmented Reality</b> Undergraduate Research Opportunities Program, UCI	5/18/2013
PI-28	<b>In The Cloud Computing Trenches: Obs., Reflections and Experiences</b> UCI Extension	7/24/2012
PI-27	<b>Status Quo: Micro-Presence in an Always Online World</b> UCI Extension	7/24/2012
PI-26	<b>In The Cloud Computing Trenches: Obs., Reflections and Experiences</b> UCI Extension	2/7/2012
PI-24	<b>Involuntary Gesture Rec. for Predicting Cerebral Palsy in High-Risk Infants</b> NIH Grant Workshop	11/14/2011
PI-13	<b>Status Quo: Micro-Presence in an Always Online World</b> U.C. Humanities Research Institute	4/13/2009
PI-11	<b>Nomatic*IM</b> Undergraduate Research Symposium	5/31/2008
PI-10	<b>From Sensors to Semantics: Intelligent Context for Situated Computing</b> Center for Research on Information Technology and Organizations	3/19/2008
PI-9	<b>Storms in Africa: Exploring the potential for presence in Africa</b> UCI ICS Informatics Department Presentation	10/5/2007
PI-7	<b>Context-Aware Messaging: Nomatic*Gaim and Nomatic*Aid</b> CALIT2 SURF-IT Lecture	8/21/2007
PI-5	<b>Nomatic: Location {by, for, of} Crowds</b> UCI ICS Informatics Department Presentation	1/20/2006

TEACHING EXPERIENCE

WESTMONT COLLEGE, SANTA BARBARA

Fall 2015	Spring 2016	May 2016	Fall 2016	Spring 2017	May 2017	Fall 2017	Spring 2018	May 2018	Fall 2018	Spring 2019	Fall 2019	Spring 2020
CS 130	CS 030	CS 150	CS 010	CS 030	CS 150	CS 010	CS 010	CS 030	Sabbatical	CS 030	CS 010	CS 030
CS 150	CS 195		CS 130	CS 045		CS 128	CS 030	CS 150		CS 045	CS 128	CS 116
				CS 195			CS 195			CS 195	CS 150	CS 150
											IS 015	IS 160

Class		Enrollment	Date
CS 010:	Design and Impl. of Solutions to Computational Problems	38	Fall 2019
		18	Spring 2018
		33	Fall 2017
		38	Fall 2016
CS 030:	Abstract Models for Concrete Problems Using Java	22	Spring 2020
		15	Spring 2019
		8	Mayterm 2018
		19	Spring 2018
		21	Spring 2017
	(formerly Object-Oriented Programming)	18	Spring 2016
CS 045:	Computer Organization & Architecture	18	Spring 2019
		32	Spring 2017
CS 116:	Artificial Intelligence and Machine Learning	27	Spring 2020
CS 130:	Creative Software Architectures for Collaborative Projects	12	Fall 2016
	Software Engineering	10	Fall 2015
CS 128:	Big Data & Information Retrieval	23	Fall 2019
		12	Fall 2017
	(formerly CS 150: Information Retrieval)	10	Fall 2015
CS 150:	Human-Computer Interaction Technology	18	Spring 2020
		6	Fall 2019
CS 150:	iOS Development for Creative Entrepreneurs	4	Mayterm 2018
		7	Mayterm 2017
		8	Mayterm 2016
CS 195:	Identity, Surveillance, Deception - Senior Seminar	18	Spring 2020
		14	Spring 2019
		8	Spring 2018
		7	Spring 2017
		4	Spring 2016
IS 015:	Technology Ethics in Science Fiction	2	Fall 2019
IS 160:	Redemptive Entrepreneurship	8	Spring 2020

COURSERA

Class	Enrollment (7/10/18)	Date
iOS Capstone: Transreality Game	7,738 → 27	Launched Spring 2016
Games, Sensors and Media	32,445 → 177	Launched Spring 2016
Best Practices for iOS User Interface Design	50,320 → 397	Launched Winter 2016
Networking and Security in iOS Applications	59,385 → 644	Launched Fall 2015
Foundations of Objective-C App Development	76,598 → 1398	Launched Fall 2015
Total	226,486 → 2643	



TEACHING EXPERIENCE (CONTINUED)

UNIVERSITY OF CALIFORNIA, IRVINE

Class	Enrollment	Date
MHCID 285: Interactive Technology Studio	39	Spring 2020
	34	Spring 2019
	27	Spring 2018
	22	Spring 2017
MHCID: <a href="#">Master of Human-Computer Interaction and Design</a>		Co-Founded Fall 2016
ICS 5: Global Disruption and Information Technology	95	Winter 2015
INF 12/SOCSCI 11A: From Barter to Bitcoin	51	Summer 2015
	49	Summer 2014
ICS 163: Mobile and Ubiquitous Games	23	Spring 2015
	73	Spring 2014
UNISTU 3: How to Lie with Infographics	13	Fall 2012
INF 133: User Interaction Software	131	Fall 2014
	84	Fall 2013
	54	Fall 2012
	33	Fall 2011
	46	Fall 2010
	43	Fall 2009
INF 134: Project in User Interaction Software	13	Winter 2013
	21	Winter 2012
	21	Winter 2011
INF 241/CS 248a: Intro to Ubiquitous Computing and Interaction	21	Fall 2012
	26	Winter 2012
	18	Winter 2009
INF 141/CS 121: Information Retrieval	81	Winter 2014
	34	Winter 2009
	26	Winter 2008
CS 221: Information Retrieval	16	Winter 2010
	11	Fall 2008
	11	Spring 2007
INF 242/CS 248B: Ubiquitous Computing and Interaction	17	Spring 2008
INF 131: Human Computer Interaction	43	Winter 2007
INF 132: Project in HCI and UI	35	Spring 2007
	42	Spring 2006
ICS 280: Special Topics in Ubiquitous Computing	8	Winter 2006
INF 290: Recent Research in Ubiquitous Computing	1	Spring 2014
	1	Winter 2010
	1	Fall 2009
	1	Spring 2008
	3	Winter 2008
	5	Fall 2007
	5	Spring 2007
	5	Winter 2007
	1	Fall 2006
	6	Spring 2006
	5	Winter 2006
	4	Fall 2005

TEACHING EXPERIENCE (CONTINUED)

UNIVERSITY OF WASHINGTON

**Guest Lecturer:** CSE 573: Artificial Intelligence. Fall 2004

**Research Lead:** Led a research team of six graduate students Fall 2004

**Teaching Assistant:** CSE 590HK: Technology for Alzheimer's Disease. Spring 2002  
(10 graduate)

**Teaching Assistant:** CSE 573: Artificial Intelligence. Fall 2001  
(25 graduate)

**Head Teaching Assistant:** CSE 143: Computer Programming II. Fall 2000

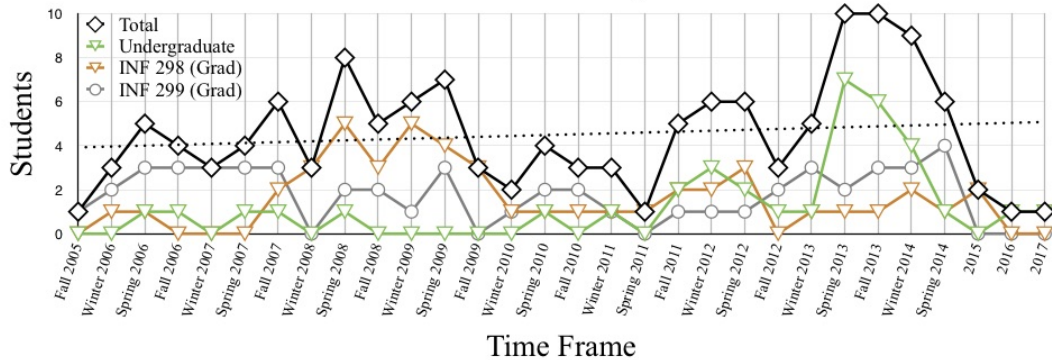
\* **BOB BANDES AWARD** Led 6 TA's and a 35 undergraduate students

UNIVERSITY OF MARYLAND EXTENSION CAMPUS

**Instructor:** Math 100: Transitional Mathematics. Winter 1998  
(15 undergraduate)

ADVISING EXPERIENCE

Student Research Supervision



**GRADUATE STUDENTS, Ph.D. Chair**

Xianghua Ding

Ph.D. 4/30/2010

**GRADUATE STUDENTS, Ph.D. Committee**

Juliet Norton

Ph.D. 2/2019

Bart Knijnenburg

Ph.D. 7/2015

Elizabeth Bales

Ph.D. 11/21/2013

Xinru Page

Ph.D. 12/9/2013

Sara Javanmardi

Ph.D. 8/26/2011

Yasser Ganjisaffar

Ph.D. 8/26/2011

Eric Kabisch

Ph.D. 3/22/2011

David Nguyen

Ph.D. 5/20/2011

Eric Kabisch

Ph.D. 3/22/2011

Daniel Massaguer

Ph.D. 11/25/2009

Amanda Williams

Ph.D. 11/16/2009

Johanna Brewer

Ph.D. 2/13/2009

**GRADUATE STUDENTS, Ph.D. Advancement Committee**

Nithya Sambasivan

Ph.D. 2012

Judy Chen

Ph.D. 7/28/2011

Alex Behm

Ph.D. 4/2010

Eric Baumer

Ph.D. 6/15/2009

Erik Linstead

Ph.D. 5/15/2009

Jennifer Rode

Ph.D. 4/24/2007

Yongjie Zheng

advanced 10/15/2009

Pinaki Sinha

advanced 6/01/2007

Joshua O'Madadhain

advanced 9/12/2006

Nodari Sitchinava

advanced 12/9/2005

Srikanth K. Agaram

Bo Gong

**GRADUATE STUDENTS, M.S. Chair**

Jeff Lee	M.S. 9/10/2014
Vrishti Gulati	M.S. 9/2012
Nitin Shantharam	M.S. 6/2012
Justin Tang	M.S. 12/4/2009
Phoebe Lin	M.S. 6/4/2009
Jahnavi Kondragunta	M.S. 6/3/2009
Kah Liu	M.S. 3/20/2009
Nicholas Noack	M.S. 9/2008
Tosin Aiyelokun	M.S. 9/2008

**UNDERGRADUATE STUDENTS**

Chol Park	2017
Sam Bentz, Sam McCollum	2016
Mona Man, Ray Park	2012-2014
Jason Parsons	2013-2014
Phil Ma, Kevin Jonaitis, Kyle Boos, Joshua Ferguson	2013-2014
Ryan Indrogo-Lam, Vahan Hartooni, Nick LaJeunesse	2012
Ryan Indrogo-Lam, Vatsal Shah, Muhammad Zaman, Vahan Hartooni, Nick LaJeunesse, Hiroe Ono,	
Garret Kim, Azia Foster	2011
Jared Haren, Sabel Braganza, Adrian Guzman	Google Juicy Idea Team, 2010
Samuel J. Kaufman	Grad. School University of Washington, Seattle, 2010
Andrew Zaldivar	
Chris Baker	Grad. School University of Colorado, Boulder, 2007
Daniel Hwang	IBM, 2006
Kah Liu	FileNet, 2006
Nathaniel Marrocco	
Alan Morton	graduated, 2006

**SERVICE**

**Conference Program Committee Chair**

<b>UbiComp</b>	13th Intl. Conf. on Ubiquitous Computing	2011
<b>Pervasive</b>	6th Intl. Conf. on Pervasive Computing	2008

**Conference Local Arrangements Chair**

<b>ACM LIMITS</b>	3rd Workshop on Computing Within Limits @ Westmont	2017
<b>UbiComp</b>	8th Intl. Conf. on Ubiquitous Computing @ UCI	2006

**Program Committee**

<b>ACM LIMITS</b>	3rd Workshop on Computing Within Limits	2017
<b>CHI</b>	(AC) Human Factors in Computing Systems	2017
<b>ACM LIMITS 2016</b>	Computing Within Limits Organizing Committee	2016
<b>ACM LIMITS 2015</b>	Computing Within Limits Organizing Committee	2015
<b>UbiComp</b>	ACM Int'l Joint Cnf. on Pervasive and Ubiquitous Computing	2014
<b>CHI</b>	(AC) Human Factors in Computing Systems	2012
<b>AAAI Spring Symposium</b>	Human Behavior Modeling	2009
<b>Pervasive</b>	5th Intl. Conf. on Pervasive Computing	2007
<b>AAAI Spring Symposium</b>	Interaction Challenges for Intelligent Agents	2007
<b>Pervasive</b>	4th Intl. Conf. on Pervasive Computing	2006
<b>LoCA</b>	2nd Intl. Wkshp. on Location/Context-Awareness	2006

**Government Agency Participation**

<b>NSF</b>	Extramural Funding Reviewer	2013
<b>NSF</b>	Extramural Funding Reviewer	2012
<b>DARPA</b>	Advancing Assisted Cognition for TBI (BAA Dev.)	2005

SERVICE (CONTINUED)

External Reviewer		
ACMS	Association of Christians in the Mathematical Sciences	2016
LIMITS	Computing Within LIMITS Workshop	2016
iConference		2016
Siggraph	43rd SIGGRAPH Conference on Computer Graphics and Interactive Techniques	2016
alt.chi	Human Factors in Computing Systems	2016
LIMITS	Computing Within LIMITS Workshop	2015
UIST	27th ACM U/I Software and Technology Symposium	2014
CHI	Human Factors in Computing Systems	2014
CHI	Human Factors in Computing Systems	2013
UbiComp	14th Intl. Conf. on Ubiquitous Computing	2012
ISWC	16th IEEE Intl. Symposium on Wearable Computers	2012
Pervasive	10th Intl. Conf. on Pervasive Computing	2012
Nokia	Mobile Data Challenge Reviewer	2012
CHI	Human Factors in Computing Systems	2012
IJCAI	International Joint Conf. on Artificial Intelligence	2011
UbiComp	13th Intl. Conf. on Ubiquitous Computing	2011
Pervasive Health	Pervasive Computing Technologies for Healthcare	2011
Pervasive	8th Intl. Conf. on Pervasive Computing	2010
UbiComp	12th Intl. Conf. on Ubiquitous Computing	2010
ISWC	14th IEEE Intl. Symposium on Wearable Computers	2010
CHI	Human Factors in Computing Systems	2010
ISWC	13th IEEE Intl. Symposium on Wearable Computers	2009
Pervasive	7th Intl. Conf. on Pervasive Computing	2009
IEEE	IEEE Pervasive	2009
PUC	Journal of Personal and Ubiquitous Computing	2009
UbiComp	11th Intl. Conf. on Ubiquitous Computing	2009
PMC	Journal of Pervasive and Mobile Computing	2009
IUI	International Conference on Intelligent User Interfaces	2009
IEEE	IEEE Transactions on Software Engineering	2008
CSCW	ACM Conference on Computer Supported Cooperative Work	2008
UIST	21st ACM User Interface Software and Technology Symposium	2008
UbiComp	10th Intl. Conf. on Ubiquitous Computing	2008
CHI	Human Factors in Computing Systems	2007
Pervasive	5th Intl. Conf. on Pervasive Computing	2007
UbiComp	9th Intl. Conf. on Ubiquitous Computing	2007
CHI	Human Factors in Computing Systems	2006
ISWC	10th IEEE Intl. Symposium on Wearable Computers	2006
NSF	National Science Foundation	2006
CAL MICRO	University of California Micro Program	2006
ISWC	9th IEEE Intl. Symposium on Wearable Computers	2005
UbiComp	7th Intl. Conf. on Ubiquitous Computing	2005
AAAI	20th National Conf. on Artificial Intelligence	2005
IEEE	IEEE Transactions on Information Technology in BioMedicine	2005
Pervasive	3rd Intl. Conf. on Pervasive Computing	2005
UbiComp	6th Intl. Conf. on Ubiquitous Computing	2004

**SERVICE (CONTINUED)**

<b>Lab Director</b>			
	<b>CTCMI</b>	Center for Technology, Creativity and the Moral Imagination	2019-present
	<b>WICL</b>	Westmont Inspired Computing Lab	2015-2019
	<b>LUCI</b>	Lab Ubiquitous Computing and Interaction	2008-2015
<b>University/College Committees</b>			
	<b>Member</b>	Westmont Risk Liaison Officer	2017-?
	<b>Member</b>	Physics Faculty Search Committee	2017-2018
	<b>Member</b>	Global Studies Minor Advisory Committee	2017-present
	<b>Member</b>	Westmont Program Review Committee	2017-2019
	<b>Vice-Chair</b>	UCI Faculty Executive Committee	2014-2015
	<b>Chair</b>	UCI Faculty Executive Committee	2013-2014
	<b>Member</b>	UCI Faculty Executive Committee	2012-2013
	<b>Member</b>	UCI Dir. of Communications Search Committee	2010
	<b>Member</b>	UCI ICS Student, Access, Outreach & Retention	2008-2010
	<b>Member</b>	UCI Informatics Chair Recommendation	2010
	<b>Member</b>	UCI ICS Informatics Undergrad Recruiting	2006-2007
	<b>Member</b>	UCI ICS Computing and Networking	2005-2006
	<b>Chair</b>	UW CSE Graduate Student Recruiting Chair	2002-2003
<b>Community Service</b>			
	<b>H.S. Outreach</b>	Santa Barbara HS Computer Science College Panel	3/2018
	<b>H.S. Outreach</b>	Brea-Olinda Global Academy Microcamp	8/2012
	<b>H.S. Outreach</b>	Brea-Olinda Global Academy Microcamp	8/2011
	<b>H.S. Outreach</b>	Brea-Olinda Global Academy Microcamp	6/14 -6/16/2010
	<b>H.S. Outreach</b>	Brea-Olinda Global Academy Microcamp	6/22 -6/25/2009
	<b>Demo</b>	NSF China Delegation at UCI	7/2/2008
	<b>H.S. Outreach</b>	Brea-Olinda Global Academy Microcamp	6/24 -6/26/2008
	<b>Demo</b>	Northrup Grumman at UCI	6/10/2008
	<b>Demo</b>	Irvine Company at UCI	5/4/2008
	<b>Demo</b>	McPherson Magnet School at UCI	7/11/2007
	<b>Lecture</b>	American Indian Summer Program at UCI	7/2/2007
	<b>Faculty Forum</b>	ICS H.S. Scholars Day at UCI	3/24/2007
	<b>Career Day</b>	McPherson Magnet School in Orange	1/17/2007
	<b>Faculty Forum</b>	Arroyo Vista - Kappa Sigma House Program	Fall 2005

**PROFESSIONAL AFFILIATIONS**

<b>AAAI Member</b>	Association for the Advancement of Artificial Intelligence
<b>ACM Member</b>	Association for Computing Machinery
<b>IEEE Member</b>	IEEE Computer Society
<b>ISTC Social Member</b>	Intel Science & Technology Center for Social Computing

**INTELLECTUAL PROPERTY**

<b>Patent</b>	<a href="#">System for Evaluating Infant Movement Using Gesture Recognition</a>	published 1/12/2016 US 9,232,912 B2
<b>Patent</b>	<a href="#">System for Evaluating Infant Movement</a>	published 2/24/2015 US 8,961,438 B2
<b>Provisional Patent</b>	System and Methods for Communicating Real-Time Status Updates for Retailers	filed 10/29/2009 App. Serial No. 61/256,188
<b>Provisional Patent</b>	System and Methods for Reducing Disruptions to a Call Recipient	filed 3/27/2009 App. Serial No. 61/163,827

**EXPERT WITNESSING**

<b>Undisclosed</b>	Patent Infringement Defense Undisclosed Undisclosed Undisclosed	8/2020 - present
<b>Apple Computers</b>	Patent Infringement Defense (Advised) U.S. District Court - Eastern District of TX Case <a href="#">2:19-cv-00119-JRG-RSP</a> <a href="#">Situation information system</a>	11/2019 - 7/2020
<b>Apple Computers</b>	International Patent Infringement Defense (Advised) <a href="#">Russian utility model RU 141 791</a>	5/2019 - 6/2019
<b>Private Party</b>	Bitcoin Recovery (Advised) Divorce Settlement	5/2019 - 7/2019
<b>StubHub developer</b>	Trade Secret Defense (Deposed) U.S. District Court - Central District of CA Case <a href="#">2:17-cv-04062-SVW-SS</a> <a href="#">Alleged Rails source code theft</a>	1/2019 - 5/2019
<b>Apple Computers</b>	Patent Infringement Defense (Advised) U.S. District Court - Western District of TX Case <a href="#">1:18-cv-00890</a> <a href="#">System and Method for Network Based Policy Enforcement of Intelligent Client Features</a>	11/2018 - 11/2018
<b>Apple Computers</b>	Patent Infringement Defense (Advised) U.S. District Court - Western District of TX Case <a href="#">1:18-cv-00851</a> <a href="#">System and method for providing service provider configurations for telephones using a central server in a data network telephony system</a>	11/2018 - 11/2018
<b>OC Public Defender</b>	Criminal Defense (Advised) Superior Court of CA - County of Orange Case <a href="#">17HF1422</a> Bitcoin involvement in drug/weapon case	6/2018 - 10/2018
<b>Apple Computers</b>	Patent Infringement Defense (Deposed) U.S. District Court - Northern District of CA Case <a href="#">5:18-cv-00357-LHK</a> <a href="#">System and method for providing user mobility services on a telephony network</a>	6/2018 - 10/2018
<b>Apple Computers</b>	Patent Infringement Defense (Advised/Testified) Texas Eastern District Court Case <a href="#">2:2017cv00258</a> <a href="#">Predictive delivery of information based on device history</a>	6/2017 - present

# Donald J. Patterson

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## PRESS<sup>1</sup>

<b>Fast Company</b>	“People are building technology that could survive the apocalypse”	11/08/19
<b>Wall Street Journal</b>	“Anatomy of a Cryptojacking”	September 18, 2018
.....	.....	.....
<b>Innovation News Daily</b>	“After 30 Years, Computer Mouse Still Prevails”	April 28, 2011
<b>Pervasive Computing</b>	“The Latest in Wearable Computing Research”	January 1 2011
<b>TechNewsDaily</b>	“In the Future, Computing is (Cunningly) Constant”	December 13 2010
<b>Government Technology</b>	“Social Networks Complicate Relations Between Bosses and Employees”	July 7, 2009
<b>Mashable</b>	“Quub: The Status Update Reinvented”	April 28, 2009
<b>TechNewsWorld</b>	“Twitter and the Future of Discourse”	April 13, 2009
<b>MIT Technology Review</b>	“Wireless Detectors for Dementia”	February 2, 2009
<b>O.C. Register</b>	“1 videoconference. 37 people. 122.7 tons of CO2 saved”	December 18, 2007
<b>O.C. Register</b>	“UCI researchers circled globe in name of science”	December 10, 2007
<b>TJ Today</b>	“Alumni Spotlight”	December 2005
<b>MIT Technology Review</b>	“Portable Pathfinder”	October 2004
<b>The Futurist</b>	“AI Helps Keep Seniors Mobile”	September/October 2004
<b>IEEE Computer</b>	“Inventing Wellness Systems for Aging in Place”	April 2004
<b>Wired Online</b>	“RFID Keeps Track of Seniors”	March 19, 2004
<b>New Scientist Online</b>	“RFID Chips Watch Grandma Brush Teeth”	March 17, 2004
<b>USA Today</b>	“Parents, Athletes Put GPS to Work”	December 4, 2002
<b>Newsweek</b>	“Gray Market for Gadgets”	September 23, 2002
<b>Focus</b>	“Digitaler Betreuer für Alzheimer-Patienten”	September 2002
<b>University Week</b>	“Prompted to Live”	July 25, 2002
<b>Minnesota Public Radio</b>	“Artificial Intelligence and Alzheimer’s”	July 24, 2002
<b>USA Today</b>	“Surveillance casts an eye to the future”	July 23, 2002
<b>Wired Online</b>	“AI to Assist Alzheimer’s Patients”	June 24, 2002

## MISCELLANEOUS

<b>CITIZENSHIP</b>	United States of America
<b>INTERESTS</b>	Micro-roast coffee, cross-country running, gourmet cooking, children’s literature, organic gardening.
<b>CERTIFICATIONS</b>	IRB, HIPAA, CPR, Water Safety.

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<sup>1</sup>After 4/28/2011, I stopped tracking all but the most important press mentions because social media enabled both trivial and important things to all be in “the press” and many major media outlets had affiliated blogs that were syndicating content that originated from our lab press releases.