

BILL TOMLINSON

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ACADEMIC APPOINTMENTS

<i>University of California, Irvine</i>	2003-present
Associate Professor (with tenure), Informatics Department	2009-present
Researcher, California Institute for Telecommunications and Information Technology (Calit2)	2003-present
Co-Chair, Environment Area, Calit2	2010-present
Program Faculty, Arts Computation Engineering (ACE) program	2006-2010
Assistant Professor, Informatics Department	2003-2009
Assistant Professor, Drama Department	2003-2006
Core Faculty, ACE program	2003-2006
Associate Director for External Relations, ACE program	2005-2006
<i>University of Central Florida</i>	2003
Visiting Assistant Professor of Digital Media	
Visiting Research Associate, Institute for Simulation and Training	
<i>MIT Media Laboratory</i>	1997-2002
Research Assistant, Synthetic Characters Group	1997-2002
Creative Consultant, Robotic Life Group	2002
<i>California Institute of the Arts</i>	1994-1996
Teaching Assistant; Equipment staff	

EDUCATION

Ph.D. in Media Arts and Sciences, <i>Massachusetts Institute of Technology</i>	2002
Dissertation: Synthetic Social Relationships for Computational Entities	
M.S. in Media Arts and Sciences, <i>Massachusetts Institute of Technology</i>	1999
Thesis: Interactivity and Emotion through Cinematography	
M.F.A. in Experimental Animation, <i>California Institute of the Arts</i>	1996
Thesis Film: Shaft of Light	
A.B. cum laude in general studies, Biology Concentration, <i>Harvard College</i>	1994

PUBLICATIONS

Books

- B1. B. Tomlinson. 2010. *Greening through IT*. Cambridge, MA: MIT Press. 216pp.

Peer-Reviewed Journal and Law Review Papers

- JR15. A. Torrance, B. Tomlinson. In press. "Property Rules, Liability Rules, and Patents: One Experimental View of the Cathedral." In: *Yale Journal of Law and Technology*. (To appear.)
- JR14. J. Ross, R. Simpson, B. Tomlinson. In press. "Media Richness, Interactivity, and Retargeting to Mobile Devices." In: *International Journal of Arts and Technology*, Special Issue on Interactive Experiences in Multimedia and Augmented Environments. (To appear.)
- JR13. J. Ross, B. Tomlinson. 2011. "Negabehaviors and Environmental Sustainability." In: *Journal of Sustainability Education*. Vol. 2 (1).
- JR12. E. P. S. Baumer, M. Sueyoshi, B. Tomlinson. 2011. "Bloggers and Readers Blogging Together: Collaborative Co-Creation of Political Blogs." In: *Computer Supported Cooperative Work*. Vol. 20(1-2) p. 1-36.
- JR11. J. Ross, B. Tomlinson. 2010. "How Games Can Redirect Humanity's Cognitive Surplus for Social Good." In: *ACM Computers In Entertainment*. December Vol. 8(4). 4pp.
- JR10. A. Torrance, B. Tomlinson. 2009. "Patent Expertise and the Regress of Useful Arts." In: *Southern Illinois University Law Journal*. Vol. 33. p. 239-278.

- JR9. L. Lewis, R. Black, B. Tomlinson. 2009. "Let Everyone Play: An Educational Perspective on Why Fan Fiction Is, or Should Be, Legal." In: *International Journal of Learning and Media*. Vol. 1(1). MacArthur Foundation/MIT Press. p. 67-81.
- JR8. B. Tomlinson, M. L. Yau, E. Baumer, J. Ross, A. Correa, G. Ji. 2009. "Richly Connected Systems and Multi-Device Worlds." In: *PRESENCE: Teleoperators and Virtual Environments*. Vol. 18, No. 1. p. 54-71. MIT Press.
- JR7. B. Tomlinson. 2009. "A Proximate Mechanism for Communities of Agents to Commemorate Long Dead Ancestors." In: *Journal of Artificial Societies and Social Simulation*. Vol. 12, No. 1. Online. 6,494 words.
- JR6. A. Torrance, B. Tomlinson. 2009. "Patents and the Regress of Useful Arts." In: *Columbia Science and Technology Law Review*. Vol. 10. Online. 39pp.
- JR5. B. Tomlinson, E. Baumer, M. L. Yau, F. L. Carpenter, R. Black. 2008. "A Participatory Simulation for Informal Education in Restoration Ecology." In: *E-Learning*. Vol. 5, No. 3. Online. p. 238-255.
- JR4. B. Tomlinson. 2005. "Social Characters for Computer Games." In: *International Journal of Interactive Technology and Smart Education, Special Issue on Social Learning through Gaming*. Vol. 2, No. 2. p. 101-115.
- JR3. B. Tomlinson. 2005. "From Linear to Interactive Animation: How Autonomous Characters Change the Process and Product of Animating." In: *ACM Computers in Entertainment*. Vol 3. No. 1. Online. 20 pages.
- JR2. B. Blumberg, M. Downie, Y. Ivanov, M. Berlin, M. P. Johnson, B. Tomlinson. 2002. "Integrated Learning for Interactive Synthetic Characters." In: *ACM Transactions on Graphics* (Proceedings of SIGGRAPH '02). Annual Conference Series, ACM. Vol. 21, No. 3, p. 417-426.
- JR1. B. Tomlinson. 1999. "Dead Technology." In: *Style*. Vol. 33, No. 2, p. 316-335.

Peer-Reviewed Book Chapters

- BR3. E. Baumer and B. Tomlinson. 2009. "Relationships Between the Processes of Emergence and Abstraction in Societies." In Trajkovski, G. and Collins, S. (eds.) *Handbook of Research on Agent-Based Societies: Social and Cultural Interactions*. Hershey, PA: IGI-Global.
- BR2. E. Baumer and B. Tomlinson. 2005. "Institutionalization Through Reciprocal Habitualization and Typification." In: *Second NASA/JPL Workshop on Radical Agent Concepts (WRAC)*. NASA Goddard Space Flight Center, Greenbelt, MD. Published in *Innovative Concepts for Autonomous and Agent-Based Systems, Lecture Notes in Computer Science*, Vol. 3825, p. 122-134, Springer-Verlag, 2006.
- BR1. B. Tomlinson, B. Blumberg. 2003. "AlphaWolf: Social Learning, Emotion and Development in Autonomous Virtual Agents." In: *First GSFC/JPL Workshop on Radical Agent Concepts (WRAC)*. NASA Goddard Space Flight Center, Greenbelt, MD. January 2002. Published in *Innovative Concepts in Agent-Based Systems, Lecture Notes in Computer Science*, Vol. 2564, p. 35-45, Springer-Verlag, 2003.

Peer-Reviewed Conference and Symposium Proceedings – Full Papers

- CF18. E. P. S. Baumer and B. Tomlinson. 2011. "Comparing Activity Theory with Distributed Cognition for Video Analysis: Beyond 'Kicking the Tires.'" in *ACM Conference on Human Factors in Computing Systems (CHI 2011)*. (Vancouver, BC, Canada). (Best Paper Honorable Mention)
- CF17. Hansen, J., Baumer, E.P.S., Richland, L., and Tomlinson, B. 2011. "Metaphor and Creativity in Learning Science." in *American Educational Researchers Association Annual Conference (AERA)*. (New Orleans, Louisiana).
- CF16. J. Ross, N. Shantharam, and B. Tomlinson. 2010. "Collaborative Filtering and Carbon Footprint Calculation." in *IEEE International Symposium on Sustainable Systems and Technology (ISSST 2010)*. (Washington, DC).
- CF15. E. P. S. Baumer, J. Sinclair, and B. Tomlinson. 2010. "'America Is Like Metamucil': Critical and Creative Thinking about Metaphor in Political Blogs." in *ACM Conference on Human Factors in Computing Systems (CHI 2010)*. (Atlanta, GA).
- CF14. E. Baumer, B. Tomlinson, J. Hansen, and L. Richland. 2009. "Fostering Metaphorical Creativity Using Computational Metaphor Identification." In: *ACM Conference on Creativity & Cognition*. (Berkeley, CA).

- CF13. E. Baumer, J. Sinclair, D. Hubin, and B. Tomlinson. 2009. "metaViz: Visualizing Computationally Identified Metaphors in Political Blogs." In: The IEEE Symposium on Social Computing (SocialCom). (Vancouver, BC, Canada).
- CF12. E. Baumer, B. Tomlinson, and L. Richland. 2009. "Computational Metaphor Identification: A Method for Identifying Conceptual Metaphors in Written Text." In: The Second International Analogy Conference (Analogy'09). (Sofia, Bulgaria). Published in :B. Kokinov, K. Holyoak, D. Gentner. (Eds.) New Frontiers in Analogy Research. Sofia, Bulgaria: New Bulgarian University Press.
- CF11. E. Baumer, L. Richland, and B. Tomlinson. 2009. "Applying Computational Metaphor Identification to Middle School Students' Writing about Cellular Reproduction." National Association for Research in Science Teaching Annual Conference (NARST). (Garden Grove, CA).
- CF10. E. Baumer, M. Sueyoshi, and B. Tomlinson. 2008. "Exploring the Role of the Reader in the Activity of Blogging." In: ACM Conference on Human Factors in Computing Systems (CHI 2008). Florence, Italy. p. 1111-1120.
- CF9. B. Tomlinson. 2008. "Prototyping a Community-Generated, Mobile Device-Enabled Database of Environmental Impact Reviews of Consumer Products." In: Hawai'i International Conference on System Sciences (HICSS), Social Spaces Minitrack. Big Island, HI. 10 pages.
- CF8. E. Baumer, B. Tomlinson. 2006. "The Interconnected Roles of Abstraction and Emergence in Artificial Societies." In: AAAI Fall Symposium. Interaction and Emergent Phenomena in Societies of Agents. Arlington, VA. 9 pages.
- CF7. T. Alspaugh, B. Tomlinson, E. Baumer. 2006. "Using Social Agents to Visualize Software Scenarios." ACM Symposium on Software Visualization (SOFTVIS'06). p. 87-94.
- CF6. B. Tomlinson, M. L. Yau, E. Baumer. 2006. "Embodied Mobile Agents." In: Fifth International Joint Conference on Autonomous Agents & Multi Agent Systems (AAMAS), Hakodate, Japan. p. 969-976.
- CF5. B. Tomlinson. 2005. "Negative Behavior Space in the Design of Interactive Agents." In: Artificial Intelligence and Interactive Digital Entertainment (AIIDE 05) Conference. Marina del Rey, CA. AAAI Press. 6 pages.
- CF4. B. Tomlinson, M. Downie, M. Berlin, J. Gray, D. Lyons, J. Cochran, B. Blumberg. 2002. "Leashing the AlphaWolves: Mixing User Direction with Autonomous Emotion in a Pack of Semi-Autonomous Virtual Characters." In: Proceedings of the 2002 ACM SIGGRAPH Symposium on Computer Animation. San Antonio, TX. p. 7-14.
- CF3. B. Tomlinson, B. Blumberg. 2001. "Social Behavior, Emotion and Learning in a Pack of Virtual Wolves." In: 2001 AAAI Fall Symposium "Emotional and Intelligent II: The Tangled Knot of Social Cognition." North Falmouth, MA. 6 pages.
- CF2. B. Tomlinson, B. Blumberg, B. Rhodes. 2000. "How Is an Agent Like a Wolf?: Dominance and Submission in Multi-Agent Systems." In: International ICSC Symposium on Multi-Agents and Mobile Agents in Virtual Organizations & E-Commerce (MAMA 2000). Wollongong, Australia. 6 pages.
- CF1. B. Tomlinson, B. Blumberg, D. Nain. 2000. "Expressive Autonomous Cinematography for Interactive Virtual Environments." In: Proceedings of the Fourth International Conference on Autonomous Agents (Agents 2000). Barcelona, Catalonia, Spain. p. 317-324.

Invited Full Conference Papers

- CIF1. B. Blumberg, B. Tomlinson, M. Downie. 2001. "Multiple Conceptions of Character-Based Interactive Installations." In: Proceedings of Computer Graphics International. Hong Kong. p. 5-11.

Peer-Reviewed Conference Proceedings – Short Papers

- CS15. N. Amsel, Z. Ibrahim, A. Malik, B. Tomlinson. 2011. "Toward Sustainable Software Engineering." In: 33rd International Conference on Software Engineering (ICSE 2011), New Ideas and Emerging Results track. Honolulu, HI. 4 pages.
- CS14. N. Amsel, B. Tomlinson. 2010. "Green Tracker: A Tool for Estimating the Energy Consumption of Software." In: ACM Conference On Human Factors In Computing Systems (CHI 2010), Work in Progress. Atlanta, GA. 6 pages.

- CS13. M. S. Silberman, B. Tomlinson. 2010. "Toward an ecological sensibility: tools for evaluating sustainable HCI." In: ACM Conference On Human Factors In Computing Systems (CHI 2010), Work in Progress. Atlanta, GA. 6 pages.
- CS12. J. Ross, L. Irani, M. S. Silberman, A. Zaldivar, B. Tomlinson. 2010. "Who are the Crowdworkers? Shifting Demographics in Mechanical Turk." ACM Conference on Human Factors in Computing Systems (CHI 2010) Extended Abstracts (alt.chi). 10 pages.
- CS11. Huh, J., Nathan, L., Silberman, S., Blevis, E., Tomlinson, B., Sengers, P., and Busse, D., 2010. "Workshop: Examining Appropriation, Re-use, and Maintenance for Sustainability." In Extended Abstracts of the Twenty-Eighth Annual SIGCHI Conference on Human Factors in Computing Systems (Atlanta, GA, USA, April 10-15, 2010). CHI '10. ACM: New York, NY. (To appear.)
- CS10. Huang, E.M., Blevis, E., Mankoff, J., Nathan, L., and Tomlinson, B. 2009. Workshop: Defining the Role of HCI in the Challenges of Sustainability. In Extended Abstracts of the Twenty-Seventh Annual SIGCHI Conference on Human Factors in Computing Systems (Boston, MA, USA, April 04-09, 2009). CHI '09. ACM, New York, NY.
- CS9. P. Dourish, G. Hayes, L. Irani, C. Lee, S. Lindtner, B. Nardi, D. Patterson, and B. Tomlinson. 2008. "Informatics at UC Irvine." ACM Conference on Human Factors in Computing Systems (CHI 2008) Extended Abstracts (Research Landscapes). 6 pages.
- CS8. E. Baumer, B. Tomlinson. 2007. "Questioning the Technological Panacea: Three Reflective Questions for Designers." ACM Conference on Human Factors in Computing Systems (CHI 2007) Extended Abstracts (alt.chi). 9 pages.
- CS7. B. Tomlinson, E. Baumer, M. L. Yau, P. MacAlpine, L. Canales, A. Correa, B. Hornick, A. Sharma. 2007. "Dreaming of Adaptive Interface Agents." ACM Conference on Human Factors in Computing Systems (CHI 2007) Extended Abstracts (Trends - Interactivity). 6 pages.
- CS6. B. Tomlinson, M. L. Yau, E. Baumer, S. Goetz, L. Carpenter, R. Pratt, K. Young, C. May-Tobin. 2006. "The EcoRaft Project: A Multi-Device Interactive Graphical Exhibit for Learning About Restoration Ecology." In: ACM Conference On Human Factors In Computing Systems (CHI 2006), Work in Progress. Montreal, Canada. p. 1445-1450.
- CS5. G. Elliott, B. Tomlinson. 2006. "PersonalSoundtrack: Context-aware playlists that adapt to user pace Embodied Mobile Agents." In: ACM Conference On Human Factors In Computing Systems (CHI 2006), Work in Progress. Montreal, Canada. p. 736-741.
- CS4. B. Tomlinson, M. L. Yau and J. Gray. 2005. "Heterogeneous Character Animation: How to make an interactive character jump between stationary and mobile graphical computers" In: SIGGRAPH 05 Sketches. Los Angeles, CA. 1 page.
- CS3. B. Tomlinson. 2005. "A Heterogeneous Animated Platform for Educational Participatory Simulations." In: 10th Computer Supported Collaborative Learning (CSCL 05) Conference. Taipei, Taiwan. p. 677-681.
- CS2. B. Tomlinson, M. L. Yau, J. O'Connell, K. Williams, S. Yamaoka. 2005. "The Virtual Raft Project: A Mobile Interface for Interacting with Communities of Autonomous Characters." In: Conference Abstracts and Applications, ACM Conference On Human Factors In Computing Systems (CHI 2005). Portland, OR. p. 1150-1151.
- CS1. B. Tomlinson, B. Blumberg. 2002. "Synthetic Social Relationships in Animated Virtual Characters." In: From Animals to Animats 7. Proceedings of the Seventh International Conference on the Simulation of Adaptive Behavior (SAB '02). Edinburgh, UK. p. 401-402.

Peer-Reviewed Workshop Proceedings and Conference Posters

- W18. A. Torrance, B. Tomlinson. 2010. "Property Rules, Liability Rules, and Patents: One Experimental View of the Cathedral." Conference on Empirical Legal Studies (CELS). Poster session. 28 pages.
- W17. J. Ross, M. S. Silberman, L. Irani, B. Tomlinson. 2010. "Sellers' problems in human computation markets." Human Computation Workshop (HComp 2010). 4 pages.
- W16. Baumer, E. P. S., White, J. P., and Tomlinson, B. 2010. "Comparing Semantic Role Labeling with Typed Dependency Parsing in Computational Metaphor Identification." in Computational Approaches to Linguistic

Creativity (CALC-10) Workshop at Human Language Technologies (NAACL/HLT), (Los Angeles, CA). 10 pages.

- W15. M. S. Silberman and B. Tomlinson. 2010. "Precarious infrastructure and postapocalyptic computing." In ACM CHI 2010 Conference on Human Factors in Computing Systems, Workshop on Examining Appropriation, Re-use, and Maintenance for Sustainability. Boston, MA. 3 pages.
- W14. B. Tomlinson. 2009. "Broadening Human Horizons through Green IT." In ACM CHI 2009 Conference on Human Factors in Computing Systems, Workshop on Defining the Role of HCI in the Challenges of Sustainability. Boston, MA. 3 pages.
- W13. E. Baumer, M. Sueyoshi, and B. Tomlinson. 2008. "Examining Privacy in Blogging from the Reader's Perspective." In Poster Session, Second International Conference on Weblogs and Social Media (ICWSM 2008). Seattle, WA. 2 pages.
- W12. E. Baumer and B. Tomlinson. 2008. "Computational Identification of Conceptual Metaphors in Communities of Blogs." In Poster Session, Second International Conference on Weblogs and Social Media (ICWSM 2008). Seattle, WA. 2 pages.
- W11. E. Baumer, B. Tomlinson. 2008. "Dream-like Interfaces and Computational Dreaming." In: ACM Conference On Human Factors In Computing Systems (CHI 2008), Workshop on Night and Darkness: Interaction after Dark. Florence, Italy. 2 pages.
- W10. A. Torrance, B. Tomlinson. 2007. "A Multi-User Interactive Patent Simulation System." Fifth Annual Works in Progress Intellectual Property Colloquium. Washington, DC.
- W9. M. L. Yau, J. Moore, Z. Ji, M. Roland, B. Tomlinson. 2007. "Persistence and Propagation of Shadow Direction in Mobile and Multi-Device Graphics." In: SIGGRAPH 07, Research Posters. San Diego, CA.
- W8. E. Baumer, B. Tomlinson. 2007. "Advocating Polytheoretic Evaluation of Interactive Art and New Media." In: ACM Conference On Human Factors In Computing Systems (CHI 2007), Workshop on HCI and New Media: Methodology and Evaluation. San Jose, CA. 4 pages.
- W7. T. Alspaugh, E. Baumer, B. Tomlinson. 2006. "On a Mixed-Methods Evaluation of a Social-Agent Scenario Visualization." Fourth International Workshop on Comparative Evaluation in Requirements Engineering (CERE '06), September 2006. 6 pages.
- W6. M. L. Yau, J. Z. Moore, B. Tomlinson. 2006. "Interactive Lighting Design for Multi-device Virtual Environments." In: SIGGRAPH 2006 Posters. 1 page.
- W5. B. Tomlinson, E. Baumer, M. L. Yau. 2006. "The Island Metaphor." In: SIGGRAPH 2006 Posters. 1 page.
- W4. E. Baumer, B. Tomlinson. 2005. "Synthetic Social Construction for Autonomous Characters." In: AAAI 05 Conference, Workshop on Modular Construction of Human-Like Intelligence. Pittsburgh, PA. 7 pages.
- W3. B. Tomlinson, J. Gray, M. L. Yau. 2005. "Multiple Virtual Rafts: A Multi-User Paradigm for Interacting with Communities of Autonomous Characters." In: ACM Conference On Human Factors In Computing Systems (CHI 2005), Late Breaking Results (Interactive Poster). Portland, OR. p. 1833-1836.
- W2. B. Tomlinson. 2005. "Designing Affective Interaction Paradigms for Animated Characters." In: Human Computer Interaction Consortium Winter Meeting (HCIC 05). Fraser, CO. 10 pages.
- W1. B. Tomlinson. 2004. "Using Human Acting Skill to Measure Empathic Value in Heterogeneous Characters." In: Third International Joint Conference on Autonomous Agents and Multi-Agent Systems (AAMAS), Workshop on Empathic Agents. New York, NY. 6 pages.

Invited Workshop Proceedings

- WI1. B. Tomlinson. 2011. "IT and (Un)sustainable Cultures." NSF/CCC Workshop on IT and the Sustainability Enterprise, Role of Information Sciences and Engineering in Sustainability (RISES), 3 pages.

Invited Professional Magazines and Newsletters

- MI6. B. Tomlinson, M. S. Silberman, J. White. 2011. "Can More Efficient IT Be Worse For The Environment?" In: IEEE Computer, Green IT column. Vol. 44, No. 1. January 2011.
- MI5. B. Tomlinson. 2010. "Future Workplaces to Support Environmental Sustainability." In: ACM Interactions. Vol. 17, No. 6. Nov/Dec 2010.

- MI4. B. Tomlinson. 2008. "A Call for Pro-Environmental Conspicuous Consumption in the Online World." In: *ACM Interactions*. Vol. 15, No. 6. Nov/Dec 2008. Sustainably Ours forum, edited by E. Blevis.
- MI3. R. T. Pratt, F. L. Carpenter and B. Tomlinson. 2006. "The EcoRaft Project: An Interdisciplinary Approach to Teaching Lessons in Ecological Restoration." In: *Bulletin of the Ecological Society of America*. Vol. 87, No. 2. April 2006, p. 176-182.
- MI2. B. Tomlinson, B. Blumberg. 2002. "Social Synthetic Characters." In: *ACM SIGGRAPH Computer Graphics*. Vol. 36, No. 2, p. 5-7. Visfiles column, edited by Bill Hibbard.
- MI1. M. Downie, B. Tomlinson, B. Blumberg. 2002. "Developing an Aesthetic: Character-Based Interactive Installations." In: *ACM SIGGRAPH Computer Graphics*. Vol. 36, No. 2, p. 33-36.

Invited Art Catalogs

- A2. Synthetic Characters Group (B. Tomlinson, M. Downie, M. Berlin, J. Gray, A. Wong, R. Burke, D. Isla, Y. Ivanov, M. Johnson, D. Lyons, J. Cochran, B. Yong, B. Blumberg). 2003. "AlphaWolf." In: J. Shaw and P. Weibel (eds.) *Future Cinema: The Cinematic Imaginary after Film*. MIT Press: Cambridge, MA. p. 458-459
- A1. Synthetic Characters Group (B. Tomlinson, M. Downie, A. Benbasat, J. Wahl, D. Stiehl, B. Blumberg). 1999. "sand:stone - Artist Statement." In: *Leonardo*. Vol. 32, No. 5, p. 462-463.

Technical Reports

- TR3. E. P. S. Baumer, D. Hubin, B. Tomlinson. 2010. Computational Metaphor Identification. LUCI-2010-002, Laboratory for Ubiquitous Computing and Interaction. Irvine, CA: University of California, Irvine.
- TR2. Ross, J., Amsel, N., Beckman, R., and Tomlinson, B. 2010. EcoPath: Adding Spatial, Social, and Gaming Contexts to Personal Tracking Systems. Social Code Report 2010-01.
- TR1. Ross, J., Zaldivar, A., Irani, L., and Tomlinson, B. 2009. Who are the Turkers? Worker Demographics in Amazon Mechanical Turk. Social Code Report 2009-01.

Theses

- T2. W. Tomlinson. 2002. "Synthetic Social Relationships for Computational Entities." Doctoral Dissertation. MIT Program in Media Arts & Sciences. 202 pages.
- T1. W. Tomlinson. 1999. "Interactivity and Emotion through Cinematography." Master's Thesis. MIT Program in Media Arts & Sciences. 77 pages.

Popular Press

- PP1. B. Tomlinson. 1997. "The Sundance Kid." Philadelphia City Paper, 1/30/97. 2260 words.

Miscellaneous

- M1. B. Tomlinson. 2008. Foreword to: R. O'Neill. 2008. "Digital Character Development: Theory and Practice." Morgan Kaufmann.

CREATIVE WORK

Web Projects

- WP8. Karunatree.com. 2010. Narrative-based environmental education site. Collaboration with Derek Lyons (project lead), Rebecca Black, Jennifer Long, Raminder Singh Goraya, Jason Lu, and Caroline Wagenaar.
- WP7. CanIBorrowYourGoat.com. 2010. Online resource sharing site for University Hills at UC Irvine. Collaboration with M. Six Silberman and Andrew Torrance.
- WP6. BetterCarbon.com. 2009-10. Carbon footprint calculator augmented with collaborative filtering system to improve accuracy with less information input. Collaboration with Joel Ross (project lead) and Nitin Shantharam.
- WP5. PatentGame. 2008-10. Online legal/business simulation to test value of patent system. Collaboration with Andrew Torrance (KU law professor) and Bryant Hornick. Presented by Professor Torrance at dozens of conferences, workshops, universities, and corporations around the world.
- WP4. CalFireHelp. 2007. Community web site designed overnight with 20 undergraduates to help match evacuees from the 2007 California wildfires with host families. Available at <http://calfirehelp.com>

- WP3. Trackulous. 2007. Community web site designed to allow people to track things about their life – gas mileage, pages printed, etc. Focused on tracking relating to environmental issues, but also useful for health, fitness, relationships, etc. Available at <http://trackulous.com>
- WP2. GreenScanner. 2006. Community web site for mobile phones to access environmental reviews of consumer products via UPC codes. Collaboration with Joel Ross and several other students. Available at <http://greenscanner.net>
- WP1. ABCDecide. 2000. Community web site for asking and answering multiple choice questions about your life. Collaboration with Andrew Torrance.

Educational Apps

- EA1. “The Seed Cycle,” (with Rebecca Black). iPad app, deployed 6/11

Patent Applications

- P3. US Utility Patent Application (with Bryant Hornick and Andrew Torrance), “Interactive Simulation of a Patent System,” 8/07
- P2. US Utility Patent Application (with Man Lok Yau), “A Platform for Seamless Multi-device Interactive Digital Content,” 3/06
- P1. US Utility Patent Application (with Andrew Torrance), “Collecting User Responses Over a Network,” 12/01

Interactive Installations (All installations with same title reflect different versions or significant restagings)

- I26. “Dreaming of Adaptive Interface Agents,” B. Tomlinson, E. Baumer, M. L. Yau, P. MacAlpine, L. Canales, A. Correa, B. Hornick, A. Sharma. ACM CHI 2007 Conference, Interactivity Venue, San Jose, CA
- I25. “Normative Echoes: Use and manipulation of player generated content by communities of NPCs,” E. Baumer, B. Tomlinson, M. L. Yau, T. Alspaugh. AI in Interactive Digital Entertainment (AIIDE) conference, 2006, Marina del Rey, CA
- I24. “EcoRaft Project,” B. Tomlinson, M. L. Yau, E. Baumer, S. Goetz, L. Carpenter, R. Pratt, K. Young, C. May-Tobin, G. Chiang, B. Hornick, S. Marinov, U. McMahan, R. Moodey, E. Ramos, C. Yoho. Next05 Conference, 2005, Copenhagen, Denmark
- I23. “AlphaWolf,” B. Tomlinson, M. Downie, M. Berlin, J. Gray, A. Wong, R. Burke, D. Isla, Y. Ivanov, M. Johnson, D. Lyons, J. Cochran, B. Yong, B. Blumberg. Discovery Science Center, 2005, Santa Ana, CA
- I22. “EcoRaft Project,” Discovery Science Center, 2005, Santa Ana, CA
- I21. “Virtual Raft/EcoRaft Project,” B. Tomlinson, M. L. Yau, J. Gray, J. O’Connell, K. Williams, S. Yamaoka, S. Goetz, E. Baumer. ACM SIGGRAPH 2005, Emerging Technologies, Los Angeles, CA
- I20. “Virtual Raft Project,” Games, Learning and Society 2005 Conference, Madison, WI
- I19. “Virtual Raft Project,” Computer Supported Collaborative Learning 2005, Taipei, Taiwan
- I18. “Virtual Raft Project,” ACM CHI 2005 Conference, Interactivity Venue, Portland, OR
- I17. “AlphaWolf,” Computing Commons Gallery, 2004, Arizona State University, Tempe, AZ
- I16. “AlphaWolf,” Festival Int’l Nouveau Cinema Nouveaux Medias 2003, Montreal, Canada
- I15. “AlphaWolf,” Beall Center for Art and Technology, 2003, University of California, Irvine, CA
- I14. “Difference Project,” B. Tomlinson *et al.*, Digital Media Alliance Florida Showcase 2003, Orlando, FL
- I13. “Difference Project,” UCF Digital Media 2003 Spring Showcase, Orlando, FL
- I12. “AlphaWolf,” Kiasma, 2003, Future Cinema, Helsinki, Finland
- I11. “AlphaWolf,” ZKM Center for Art & Media, 2002-3, Future Cinema, Karlsruhe, Germany
- I10. “CyberFauna,” C. Breazeal *et al.*, Smithsonian National Design Triennial, Cooper-Hewitt National DesignMuseum, 2002, New York, NY
- I9. “AlphaWolf,” Ars Electronica 2002, Linz, Austria

18. “AlphaWolf,” Game Developers Conference 2002, Morgan Kaufmann Booth, San Jose, CA
17. “AlphaWolf,” ACM SIGGRAPH 2001, Emerging Technologies, Los Angeles, CA
16. “sheep|dog: Trial by Eire,” B. Blumberg *et al.*, Electronic Entertainment Expo 2001, Los Angeles, CA
15. “sand:stone,” B. Tomlinson *et al.*, 7th New York Digital Salon, 1999, New York, NY
14. “(void*): A Cast of Characters,” B. Blumberg *et al.*, ACM SIGGRAPH 99, Emerging Technologies, Los Angeles, CA
13. “Swamped!,” B. Blumberg *et al.*, ACM SIGGRAPH 98, Emerging Technologies, Orlando, FL
12. “Toco the Toucan,” D. Roy *et al.*, ACM SIGGRAPH 97, Emerging Technologies, Los Angeles, CA
11. “Boxed In,” B. Tomlinson and L. Tomlinson, ArtFronts Partnership, Philadelphia, PA

Film Screenings/Distribution

- F2. “Shaft of Light,” Directed by B. Tomlinson, 16mm. stop-motion animated film.
 - a. Distributed by the Anti-Defamation League in its Anti-Bias/Diversity Catalog.
 - b. Sci-Fi Channel, EXPOSURE, 2000-01
 - c. Bravo Channel, 1997-00
 - d. Independent Film Channel, 1997-00
 - e. Cinanima, Espinho, Portugal, 1998
 - f. Florida Film Festival, Orlando, FL, 1998
 - g. Denver International Film Festival, Denver, CO, 1998
 - h. Atlanta International Film Festival, Atlanta, GA, 1998
 - i. Directors Guild of America, Los Angeles, CA, 1997
 - j. Taos Talking Pictures, Taos, NM, 1997
 - k. World Animation Celebration, Los Angeles, CA, 1997
 - l. Black Maria Film Festival, Toured US, including Boston Museum of Fine Art, 1997
 - m. GenArt Film Festival, New York, NY, 1997
 - n. Medicine Wheel Film Festival, Tempe, AZ, 1997
 - o. New Orleans International Short Film Festival, New Orleans, LA, 1997
 - p. New York Expo of Short and Documentary Film, New York, NY, 1997
 - q. Philadelphia Festival of World Cinema, Philadelphia, PA, 1997
 - r. Sundance Film Festival, Park City, UT, 1997
 - s. Uppsala International Short Film Festival, Uppsala, Sweden, 1996
 - t. Sinking Creek International Short Film Festival, Nashville, TN, 1996
 - u. Albany International Short Film Festival, Albany, NY, 1996
 - v. Bilbao International Festival of Documentary and Short Film, Bilbao, Spain, 1996
 - w. Armchair Film Festival, New York, NY, 1996
 - x. Brussels Int’l Festival of Fantasy, Thriller & Science Fiction, Brussels, Belgium, 1996
 - y. Palm Springs International Short Film Festival, Palm Springs, CA, 1996
- F1. “Boot Camp,” directed by Harvard College VES 50 class, 16 mm. documentary film. Stanford University Film Festival, Stanford, CA

Graphic Art

- GA2. Cover Photograph for: B. Tomlinson, 2010, *Greening through IT*, MIT Press, Cambridge, MA.
- GA1. Cover Art for: V. Kaptelinin and B. A. Nardi, 2006, *Acting with Technology: Activity Theory and Interaction Design*, MIT Press, Cambridge, MA.

HONORS & AWARDS

NSF CAREER Award - \$500,000, “An Agent-Based Approach to Human-Computer Interaction for Systems of Collocated Devices”, PI. (Current.)	2007-2012
Alfred P. Sloan Research Fellowship, Computer Science - \$50,000. (Current.)	2008-2012
Constellation Energy E2 Energy to Educate award, \$50,000 for “Causality Project.” PI, with Co-PI Rebecca Black.	2011-2012

Amazon Web Services grants (3), \$7,200 in service for “KarunaTree”, “BetterCarbon.com”, and “ResearchWatch.net” (Current.)	2011-2012
CHI 2011 Best Paper Honorable Mention, for “Comparing Activity Theory with Distributed Cognition for Video Analysis: Beyond ‘Kicking the Tires.’” (with Eric Baumer)	2011
NSF EAGER Award - \$280,371, “Narrative-Centered Computing for Childhood Environmental Awareness.” PI. (Current.)	2009-2011
NSF CreativeIT Award - \$200,000, “Computational Metaphor Identification for Supporting Creativity in Science Education”, PI, with Co-PI Lindsey Richland. (Current.)	2008-2011
NSF BPC Award - \$599,723, “American Indian Summer Institute in Computer Science: Linking Native Culture to Computer Game Culture.” Co-PI, with Dan Frost (PI) and Amelia Regan (Co-PI). (Current.)	2008-2011
Amazon Web Services grants (3), \$3,600 in service for “KarunaTree”, “BetterCarbon.com”, and “ResearchWatch.net”	2010-2011
Google Earth Pro grant, \$8,000 in software	2009-2010
Amazon Web Services grants (2), \$7,200 in service for “ICS5: Environmental Issues in IT course” and “ResearchWatch.net”	2009-2010
Google RISE Award, \$5,000, “AISICS.” Co-PI, with Dan Frost (PI) and Amelia Regan (Co-PI).	2009-2010
NSF REU Award - \$15,995, “Green IT and Multi-Device Systems”, supplement to CAREER Award, PI.	2008
Finalist, 2007 Toshiba Green Innovation Award. One of six finalists in Orange County, CA.	2007
Nominee, 2007 Rockefeller Foundation New Media Fellowship. One of sixty national nominees.	2007
Equipment grant (value ~\$1,000), Microsoft Research, for “GreenScanner.”	2006
Nominee, 2006 Tech Museum Awards, Environmental category, for “EcoRaft Project.”	2006
Nominee, 2006 Rockefeller Foundation New Media Fellowship. One of sixty national nominees.	2006
Winner, Nicholas Foundation Prize for Cross-Disciplinary Research \$80,000 award for “EcoRaft Project” (with F. Lynn Carpenter).	2005
Finalist, Peoria Prize for Creativity, “Virtual Raft Project.” One of three national finalists.	2005
Finalist, Microsoft New Faculty Fellowship. UCI Nominee and one of eleven national finalists.	2005
Grand Prize, Interactive category, Digital Art Awards 2002, Keio University, for “AlphaWolf.”	2002
Honorary Mention, Interactive Art, Prix Ars Electronica 2002, for “AlphaWolf.”	2002
Choice of the Jury, Cinanima, for “Shaft of Light.”	1998
Official Selection, Sundance Film Festival, for “Shaft of Light.”	1997
2nd Place, The Jim Henson Award for Best Stop Motion Produced by an Independent World Animation Celebration, for “Shaft of Light.”	1997
Eagle, CINE, for “Shaft of Light.”	1997
Director’s Choice, Black Maria Film Festival, for “Shaft of Light.”	1997
Production Grant, The ArtFront Partnership, \$1,500 award for “Boxed In” (with Lynn Tomlinson).	1996

LECTURES & PRESENTATIONS

- L81. Invited Speaker, Science & Technology Section (STS) of the Association of College and Research Libraries (ACRL), 2012, Anaheim, CA (to appear)
- L80. Invited Speaker, Aston University, 2011, Birmingham, UK (to be delivered virtually)
- L79. Panelist, Law and Society Association 2011 Annual Meeting, San Francisco, CA
- L78. Presenter, CENIC 2011 conference, Irvine, CA

- L77. “Learning, Development, and Empowerment in Virtual Worlds for Young Children,” Digital Media & Learning Conference, 2011, Long Beach, CA (with Derek Lyons and Jennifer Long, delivered by Derek Lyons)
- L76. Plenary Speaker, NSF/CCC Workshop on IT and the Sustainability Enterprise, Role of Information Sciences and Engineering in Sustainability (RISES), 2011, Washington, DC
- L75. Presenter, Global IT Academy, 2011, Brea Olinda High School, Brea, CA
- L74. Visionary Panelist, Technolink Association’s President's Club Forum, 2010, Los Angeles, CA
- L73. Invited Speaker, Information Technology and Innovation Foundation, 2010, Washington, DC (delivered virtually)
- L72. Panelist, Workshop on Innovation in Computing and Information Technology for Sustainability, National Academies, 2010, Washington, DC
- L71. “Designing Games that Cultivate Environmental Literacy,” Games+Learning+Society 6.0 Conference, 2010, Madison, WI (delivered by collaborator Derek Lyons)
- L70. Panelist, Mining and Environmental Sustainability Panel, IEEE International Conference on Data Mining, 2009, Miami, FL (delivered virtually)
- L69. Visionary Speaker, Building Bridges Roundtable, 2009, Irvine, CA
- L68. Presenter, College Art Association, 2009 Annual Conference, Los Angeles, CA
- L67. Keynote Visionary Panelist, Technolink Association’s Technology Forecast, 2008, Los Angeles, CA
- L66. Panelist, Innovation and Globalization in Green conference, 2008, Irvine, CA
- L65. Presenter, American Marketing Association Summer Marketing Educators' Conference, 2008, San Diego, CA
- L64. Presenter, Ecological Society of America (ESA), 2008 Annual Meeting, Milwaukee, WI
- L63. Guest Lecture, Film 3250: Animation History and Practice, Prof. Lynn Tomlinson, 2008, Cornell U., Ithaca, NY
- L62. Presenter, OCTANe Meet the Researchers, 2008, Irvine, CA
- L61. Presenter, UC Day: UC Goes Green, 2008, Capitol Lawn, Sacramento, CA
- L60. Presenter, Global IT Academy, 2008, Brea Olinda High School, Brea, CA
- L59. Lecture, National University of Singapore, 2007, Singapore
- L58. Panelist, “Real IP in a virtual world: IP issues arising out of virtual characters and scenes in online video games,” International Bar Association, 2007, Singapore
- L57. Presenter, Games + Learning + Society conference, 2007, Madison, WI
- L56. Presenter, Living Game Worlds III, Georgia Tech, 2007, Atlanta, GA
- L55. Workshop Leader, Sally Ride Science Festival for Girls, 2007, Irvine, CA
- L54. Presenter, Global IT Academy, 2007, Brea Olinda High School, Brea, CA
- L53. Visionary Panelist, Technolink Association’s Technology Forecast, 2006, Los Angeles, CA
- L52. Lecture, Osher Lifelong Learning Institute, 2006, Calit2, Irvine, CA
- L51. Panelist, Games for Change Conference, 2006, New York, NY
- L50. Presenter, Dell Executive Briefing, 2006, Austin, TX
- L49. Panelist, “The EcoRaft Project”, Massive: The Future of Networked Multiplayer Games, 2006, Calit2, Irvine, CA
- L48. Lecture, “Designing Multidevice Games for Museum-Based Ecology Education”, Game Developers Conference 2006, Serious Games Summit, San Jose, CA
- L47. Panelist, “Serious Games in 45-minutes: How Do We Make Classroom Learning Work”, Moderated by James Gee, Game Developers Conference 2006, Serious Games Summit, San Jose, CA

- L46. Research Presentation, Digitas, 2005, New York, NY
- L45. Lecture, Educational Communication & Technology program, 2005, New York University, New York, NY
- L44. Panelist, Games for Change Conference, 2005, New York, NY
- L43. Lecture, Institute of Applied Art, 2005, National Chiao Tung University, Hsinchu, Taiwan
- L42. Panelist, Workshop on Creative Industries, Consulate General of the Netherlands, 2005, Los Angeles, CA
- L41. Participant, Microsoft Research Social Computing Symposium, 2005, Redmond, WA
- L40. Guest Lecture, Human-Computer Interaction Seminar, Prof. Terry Winograd, 2005, Stanford University, Stanford, CA
- L39. Visionary Panelist, Technolink Association's Technology Forecast, 2004, Los Angeles, CA
- L38. Participant, Collaboration in Ecology: A Workshop, 2004, University of California, Irvine, CA
- L37. Workshop Leader (with Sara Goetz), Science Festival for Girls, Sally Ride Science Club, 2004, Irvine, CA
- L36. Artist's Lecture, 2004, Arizona State University, Tempe, AZ
- L35. Cornell SIGCHI Distinguished Lecturer Series, 2004, Cornell University, Ithaca, NY
- L34. Panelist, Self-Organizing Systems Conference: rEvolutionary Art, Science and Literature, 2004, University of California, Los Angeles, CA
- L33. Lecture, ACM SIGCHI, Orange County Chapter, 2004, Irvine, CA
- L32. Guest Lecture, Film 324: Experimental + Traditional Animation Workshop, Prof. Lynn Tomlinson, 2004, Cornell University, Ithaca, NY
- L31. Artist's Lecture, Festival Nouveau Cinema Nouveaux Media, 2003, Montreal, Canada
- L30. Meet the Artists, Beall Center for Art + Technology, 2003, University of California, Irvine, CA
- L29. Lecture, Department of Design | Media Arts, 2003, University of California, Los Angeles, CA
- L28. Lecture, Computer Science Department, 2003, University of California, Los Angeles, CA
- L27. Lecture, Institute for Studies in the Arts, 2003, Arizona State University, Tempe, AZ
- L26. Lecture, 2003, Hampshire College, Amherst, MA
- L25. Lecture, ACE Program, 2003, University of California, Irvine, CA
- L24. Lecture, Interactive Media Program, 2003, University of Southern California, Los Angeles, CA
- L23. Lecture, Program in Technocultural Studies, 2003, University of California, Davis, CA
- L22. Lecture, Association for Computing Machinery (ACM), UCF Chapter, 2003, Orlando, FL
- L21. Roundtable participant, "At the Intersection of Art and Science," Southern California Conference on Undergraduate Research, 2002, CalTech, Pasadena, CA
- L20. Lecture, Institute for Creative Technologies, 2002, University of Southern California, Marina del Rey, CA
- L19. Lecture, College for Creative Studies, 2002, Detroit, MI
- L18. Lecture, Center for Research in Computing and the Arts, 2002, University of California, San Diego, CA
- L17. Lecture, School of Electrical Engineering and Computer Science, 2002, University of Central Florida, Orlando, FL
- L16. A. Louis Medin Modeling & Simulation Seminar Series, Texts & Technology Program and Institute for Simulation & Training, 2002, University of Central Florida, Orlando, FL
- L15. Lecture, iEAR Studio, 2002, Rensselaer Polytechnic Institute, Troy, NY
- L14. Lecture, Division of Animation & Digital Arts, 2002, University of Southern California, Los Angeles, CA
- L13. Guest Lecture, Media Studies, Prof. Machiko Kusahara, 2002, University of California, Los Angeles, CA

- L12. Cambridge University Moving Image Studio/MIT workshop, 2001, Cambridge University, Cambridge, UK
- L11. Keynote (for B. Blumberg), International Conference on Virtual Storytelling, 2001, Avignon, France
- L10. Workshop Leader (with Prof. B. Blumberg and Prof. C. Breazeal), "Workshop on Embodied Presence," 2001 Fall Sponsor Week, The Media Laboratory, Massachusetts Institute of Technology, Cambridge, MA
- L9. Lecture, Metapolis Think Tank, 2001, Barcelona, Catalonia, Spain
- L8. Lecture, Entertainment in the Interactive Age conference, 2001, University of Southern California, Los Angeles, CA
- L7. Lecture, Future Film Festival, 2001, Bologna, Italy
- L6. Lecture (with R. Burke), Living Architectures Summit, 2000, New Media Institute, Banff, Canada
- L5. Lecture, FMX2K, 2000, Stuttgart, Germany
- L4. Paradigm Lecture Series, 2000, University of the Arts, Philadelphia, PA
- L3. Lecture, Eliot House Senior Common Room, 1998, Harvard University, Cambridge, MA
- L2. Lecture, Tokyo Toy Show, 1998, Tokyo, Japan
- L1. Artist's Lecture, Uppsala International Short Film Festival, 1996, Uppsala, Sweden

COURSES

Research Methods, graduate course, UCI	FQ2011
Game Technologies and Interactive Media, undergraduate course, UCI	SQ2011
Environmental Issues in Information Technology, graduate course, UCI	FQ2009
Environmental Issues in Information Technology, undergraduate course, UCI	SQ2009, WQ2011, WQ2012
Advanced User Interface Architecture, graduate course, UCI	SQ2008
Social Analysis of Computerization, undergraduate course, UCI	WQ2005, SQ2006, SQ2007, FQ2007, FQ2008, FQ2009
Computer Games as Art, Culture & Technology, first-year undergrad. course, UCI	FQ2008-SQ2009 FQ2007-SQ2008 FQ2006-SQ2007
Informatics Graduate Seminar, UCI	SQ2007
Script Analysis, graduate course, UCI	WQ2006
Programming for Interactivity, graduate course, UCI	FQ2005
Computer Game Development, undergraduate course, UCI	SQ2005
Performance Theory, graduate course, UCI	FQ2004
Biomorphic Computing, graduate course, UCI	WQ2004
Autonomous Characters, graduate course, UCI	FQ2003

INTRAMURAL LECTURES

- IL40. Guest Lecture, ICS 90: First Year Seminar, Instructors: Rich Pattis and David Kay , 2011, UCI
- IL39. Guest Lecture, Informatics 161: Social Analysis of Computerization, Prof. Melissa Mazmanian, 2011, UCI
- IL38. Lecture (with Andrew Torrance), "The Patent Game", Interdisciplinary Legal Studies Workshop, 2011, UCI Law School (to appear)
- IL37. Lecture, AISICS program, 2011, UCI
- IL36. Guest Lecture, Informatics 161: Social Analysis of Computerization, Prof. Melissa Mazmanian, 2011, UCI

- IL35. Lecture, Informatics Seminar, 2011, UCI
- IL34. Lecture, Sustainable Energy Technology Club, 2011, UCI
- IL33. Lecture, AISICS program, 2010, UCI
- IL32. Guest Lecture, Informatics 161, Prof. Melissa Mazmanian, 2010, UCI
- IL31. Lecture, “Green Information Technology”, Sustainability Seminar Series, Center for Unconventional Security Affairs, 2010, UCI
- IL30. Guest Lecture, Engineering 15: Problem Solving in Engineering, 2009, UCI
- IL29. Two Lectures, AISICS program, 2009, UCI
- IL28. Two Lectures, AISICS program, 2008, UCI
- IL27. Lecture, SURF-IT program, 2008, Calit2, UCI
- IL26. Lecture, CRITO Hour, 2008, Center for Research on Information Technology and Organizations, UCI
- IL25. Guest Lecture, Informatics 44, Prof. Bonnie Nardi, 2008, UCI
- IL24. Lecture, Focus the Nation, 2008, UCI
- IL23. Panelist, Games 3.0, Calit2, 2007, UCI
- IL22. Guest Lecture, Informatics 44, Prof. David Redmiles, 2007, UCI
- IL21. Guest Lecture, Informatics 163: Projects – Social/Org. Impacts of Computing, Prof. Bonnie Nardi, 2007, UCI
- IL20. Lecture, SURF-IT program, 2007, Calit2, UCI
- IL19. Invited Lecture, Honors Experience Day, Campuswide Honors Program, 2007, UCI
- IL18. Guest Lecture, CSE 90: Introduction to Systems Engineering, Prof. Jeff Foresta, 2007, UCI
- IL17. Lecture, SURF-IT program, 2006, Calit2, UCI
- IL16. Guest Lecture, Informatics 44: Seminar in Informatics, Prof. Roberta Lamb, 2006, UCI
- IL15. Guest Lecture, Film & Media Studies 112: Genre Study, Prof. Peter Krapp, 2005, UCI
- IL14. Guest Lecture, Film & Media Studies 85C: New Technologies and Visuality, Prof. Peter Krapp, 2005, UCI
- IL13. Guest Lecture, Informatics 44: Seminar in Informatics, Prof. Andre van der Hoek, 2005, UCI
- IL12. Guest Lecture, ICS 131: Social Analysis of Computerization, Prof. Bonnie Nardi, 2005, UCI
- IL11. Lecture, SURF-IT program, 2005, Calit2, UCI
- IL10. Program Leader, Mesa Court Undergraduate Housing, 2005, UCI
- IL9. Presenter, Arts Dean’s Leadership Council, 2005, UCI
- IL8. Guest Lecture, ICS 200: Seminar in Research, 2004, UCI
- IL7. Seminar Leader, Faculty Forum, “Combining the Arts, Computation and Engineering,” 2004, UCI
- IL6. Guest Lecture, Arts 1E: Digital Core, Prof. John Crawford, 2004, UCI
- IL5. Guest Lecture, ICS 131: Social Analysis of Computerization, Prof. Bonnie Nardi, 2004, UCI
- IL4. Guest Lecture, UCI Arts 1D: Digital Core, Prof. John Crawford, 2004, UCI
- IL3. Guest Lecture, ICS 131: Social Analysis of Computerization, Prof. David Redmiles, 2003, UCI
- IL2. Guest Lecture, ICS 197/200: Honors Seminar, 2003, UCI
- IL1. Guest Lecture, Introduction to Media Studies, Prof. Glorianna Davenport, 1998, MIT

PROFESSIONAL SERVICE

Reviewer, National Research Council report on Computing Research for Environmental and Societal

2012

Sustainability	
Program Committee, REFSQ 1st Int'l Workshop on Requirements Engineering for Sustainable Systems	2012
Associate Chair, DIS 2012 Programme Committee	2012
Reviewer, CHI 2012	2011
Reviewer, CSCW 2012	2011
Reviewer, Environmental Science & Technology Journal	2011
Program Committee, AAAI Spring Symposium on Artificial Intelligence and Sustainable Design	2010
Reviewer, ACM Transactions on Computer-Human Interaction (TOCHI)	2006, 2010
Reviewer, IEEE IT Professional, Green IT Special Issue	2010
Site Visit Team, National Science Foundation	2010
Workshop Co-Organizer, Examining Appropriation, Re-use, and Maintenance for Sustainability, ACM CHI Conference on Human Factors in Computing Systems (with Eli Blevis, Daniela Busse, Jina Huh, Lisa Nathan, Phoebe Sengers, and Six Silberman)	2010
Session Chair, "Crisis Informatics," ACM CHI Conference on Human Factors in Computing Systems	2010
Reviewer, ACM DIS Conference	2010
Reviewer, ACM CHI Conference on Human Factors in Computing Systems	2007-2009
Workshop Co-Organizer, Defining the Role of HCI in the Challenges of Sustainability, ACM CHI Conference on Human Factors in Computing Systems (with Elaine Huang, Eli Blevis, Jen Mankoff, and Lisa Nathan)	2009
Review Panelist, National Science Foundation (two directorates, five panels, chair of one panel)	2005-2008
Reviewer, Morgan Kaufmann Publishers	2004, 2008
Reviewer, MIT Press	2008
Program Committee, Autonomous Agents and Multiagent Systems (AAMAS) conference (Special Track on Virtual Agents)	2008
Reviewer, IEEE Computer Graphics and Applications journal	2007
Organizer, Panel on the Global Environment and Digital Media, ACM SIGGRAPH Art Gallery Panelists: William Brent (UCSD), Heitor Capuzzo (FUMG), Natalie Jeremijenko (UCSD), Michael Moshell (UCF), Vibeke Sorensen (ASU), Shahrokh Yadegari (UCSD)	2007
Reviewer, ACM SIGGRAPH Conference, Art Gallery	2007
Co-Organizer, Workshop on the State of the Art in Academic Computer Game Research (with Bonnie Nardi) Included 20 game researchers from universities and research labs.	2006
Reviewer, American Educational Research Association (AERA)	2006
Session Chair, ACM SIGGRAPH Emerging Technologies Sketches	2006
Organizer, Museums and Games Panel, Games for Change conference Panelists: H. Borrelli (AMNH), C. Brunner (CCT), L. Majzlin (NYU), R. O'Neill (Pratt)	2006
Reviewer, International Symposium on Mixed and Augmented Reality (ISMAR 06)	2006
Reviewer, Adaptive Behavior, Special Issue on Mechanisms of Action Selection	2006
Reviewer, International Journal of Continuing Engineering Education and Life Long Learning	2006
Jury, SIGGRAPH 2006 Emerging Technologies program	2006
Program Committee, SID 2006: Social Intelligence Design	2006
Member, Scientific and Creative Advisory Board, The Darwin Project, Boston, MA	2004-2005

Reviewer, Netherlands Organization for Scientific Research	2004
Reviewer, NASA Research in Intelligent Systems	2004
Reviewer, ACM Transactions on Computer-Human Interaction	2003
Reviewer, IEEE MultiMedia	2003
Program Committee, International Conference on Virtual Storytelling	2003
Organizer, NextArt Interactive Media Forum, Florida Film Festival Panelists: Rebecca Allen (UCLA), Ken Perlin (NYU)	2003
Reviewer, International Journal of Human-Computer Studies Special Issue on Applications of Affective Computing in Human-Computer Interaction	2002
Session Chair, Emotions in social behavior and adaptation II & III, AAAI Fall Symposium	2001

UNIVERSITY SERVICE

More than 80 research demonstrations to visiting scholars, dignitaries, executives, and school groups	2003-present
Division Council, California Institute for Telecommunications & Information Technology	2005-present
Informatics Undergraduate Recruiting and Outreach Committee	2011-12
ICS Executive Committee (vice chair)	2011-12
ICS Computer Game Science Steering Committee	2011-12
Informatics Graduate Recruiting and Outreach Committee	2010-11
Graduate Recruiting and Outreach Committee (chair), Department of Informatics, UCI	2010-2011
ICS Committee on Administration and Resources	2011
Participant, Discussion Group, UC Office of the President communications group	2010
Informatics Department Chair Recommendation Committee	2010
Member, Ad Hoc Drafting Committee, Global Sustainability Major, UCI	2010
Mentor, hITEC Entrepreneurship Competition, Bren School of ICS, UCI	2010
Student Outreach, Access and Retention Board, Bren School of ICS, UCI	2009-2010
Graduate Policy Recruitment and Admissions Committee, Bren School of ICS, UCI	2007-2010
Graduate Admission, Recruiting and Outreach Committee (chair), Department of Informatics, UCI	2007-2009
Mentor, NSF Mt. SAC STEM Summer Bridge Program	2009
Undergraduate Recruiting and Outreach Committee, Department of Informatics, UCI	2006-2007
Student Outreach, Access and Retention Board, Bren School of ICS, UCI	2005-2007
Mentor, CA MESA Advanced Science and Technology Academies of Research	2007
Calit2 Emulex Fellow Review Committee	2006
Associate Director for External Relations, ACE Program, UCI Responsible for fundraising, recruitment of students and other external relations duties.	2005-2006
Admissions Committee, Department of Informatics, UCI	2004-2006
Academic Senate Committee on Student Experience, UCI	2004-2006
Core Faculty, ACE Program, UCI Contributed to the design and development of a multidisciplinary graduate program: admissions, curriculum, facilities, website, lecture series, fundraising and student orientation & mentoring. ICS School Liaison. Advisor, Inaugural Graduation Show 2005.	2003-2006
Publicity Committee, Department of Informatics, UCI	2004

Faculty Advisor, Digital Media Spring Showcase, UCF	2003
Organizer, MIT Media Lab Colloquium	1998
Guest Speaker: Jules Engel, Founder and Director, CalArts Experimental Animation Program	

UNIVERSITY AFFILIATIONS

UCI Civic and Community Engagement minor, Affiliated Faculty	2008-present
UCI Center for Machine Learning and Intelligent Systems, Affiliated Faculty	2007-present
UCI Ada Byron Research Center	2003-present
UC Game Culture & Technology Lab	2003-present
UCI ACE Program, Program Faculty	2003-present

INTRAMURAL FUNDING/HONORS

UCI Engaged Scholar Award	2010-11
PI, UCI Council on Research, Computing and Library Resources, for “Computational Footprint Calculation”	2010
PI, UCI Environment Institute grant (with Brett Sanders and L. Robin Keller)	2009-10
Faculty Mentor of the Month, UCI UROP Office	September 2009
Co-PI, UCI Council on Research, Computing and Libraries (CORCL) grant for New Media Technologies and Civic Engagement (with Rebecca Black)	2008-09
UCI Faculty Career Development Award	2008-09
UCI Living Our Values Award Nominee	2008
PI, UCI Council on Research, Computing and Library Resources, travel funds	2007
UCI ICS Dean’s Award for Undergraduate Teaching	2007
PI, Calit2 Event Sponsorship Grant for Interdisciplinary Computer Gaming Research workshop, with Tom Boellstorff, Peter Krapp, Falko Kuester, Bonnie Nardi, Robert Nideffer, Patricia Seed and Mark Warschauer.	2006
PI, UCI Council on Research, Computing and Library Resources (CORCLR) grant for Interdisciplinary Computer Gaming Research workshop.	2006
UCI Chancellor’s Award for Excellence in Fostering Undergraduate Research	2006
UCI Faculty Career Development Award	2005-2006
UCI Planning Grant for First-year course – “Computer Games as Art, Culture and Technology”	2005-2006
UCI Claire Trevor School of the Arts Dean’s Faculty Award for Excellence in Service	2005
UCI Honors Program, Selected by three UCI Honors undergraduate students as the “one faculty member who has made the greatest impact on his/her education at UCI.”	2005
PI, UCI ICS Fund for Excellence Collaborative Research Initiation Award, for “EcoRaft game”	2005
PI, UCI Council on Research, Computing and Library Resources, for “Virtual Raft Project”	2005
Faculty Desktop Computing Initiative, UCI Donald Bren School of Information & Computer Sciences	2005
Ted & Janice Smith Student/Faculty Recruitment grant	2004
PI, UCI Council on Research, Computing and Library Resources For “Autonomous Acting Partners Project”	2004
PI (with Bonnie Nardi), UCI School of Information and Computer Science Smith Family Seed Funding grant, for “Making Friends Project”	2004
PI, UCI Council on Research, Computing and Library Resources, “Handheld Prisoner’s Dilemma Project”	2004

UCI School of Information & Computer Science travel grant to attend CRA Academic Careers Workshop 2003

MIT Media Lab Research Assistantship, Synthetic Characters Group 1997-2002

RESEARCH SUPERVISION

Post-Doctoral Scholars

Derek Lyons, UCI ICS Assistant Project Scientist 2009-present

Eric Baumer, UCI ICS Assistant Project Scientist 2009-2010

Doctoral Students

Joel Ross, UCI ICS (Advisor) 2007-present

Eugenia Gabrielova, UCI ICS (Advisor) 2011-present

Meg Cramer, UCI ICS (Advancement Committee Member) 2011-present

Tawanna Dillahunt, Carnegie Mellon, (External Member of Dissertation Committee) 2011-present

Tina Matuchniak, UCI Education (Dissertation Proposal Committee Member) 2011-present

George Azzari, UCI Earth System Science (Advancement Committee Member) 2011

Nadine Amsel, UCI ICS (Advisor) 2008-2010

Michael (Six) Silberman (Advisor) 2009-2010

Arjun Satish (Advancement Committee Member) 2010

Eric Kabisch, UCI ICS (Advancement Committee Member) 2008-2009

Eric Baumer, UCI ICS (Advisor) 2004-2009

Jeff Ridenour, UCI ICS (Advancement Committee Member) 2005-2007

Man Lok Yau, UCI ICS (Advisor) 2004-2007

Garnet Hertz, UCI Film & Media Studies (Advancement Committee Member) 2007

So Yamaoka, UCI Engineering program (Advancement Committee Member) 2006

Riley Pratt, UCI Ecology and Evolutionary Biology (Advancement Committee Member) 2006

Danielle Vellucci, UCI Chemistry (Advancement Committee Member) 2006

Justin Harris, UCI ICS (Advancement Committee Member) 2006

Master's Students

Ankita Raturi 2010-present

Raminder Goraya 2010-present

Tommy Chheng (Chair) 2009-2010

Josef Nguyen (Member) 2008-2009

Michael (Six) Silberman (Member) 2008-2009

Phoebe Lin, UCI ICS (Member) 2009

Priya Venkateshan 2009

Mark Roland, UCI ACE program (Member) 2007-2008

Amy Lewis, UCI ACE program (Member) 2007

Greg Elliott, UCI ACE program (Member) 2005-2007

Matthew Cox, University of Miami MFA animation program (Member) 2005-2006

J. Adrian Herbez, UCI ACE program (Chair) 2004-2005

Sara Goetz, UCI ACE program (Research supervisor) 2004-2005

So Yamaoka, UCI ACE program (Research supervisor) 2003-2004

Honors Undergraduate Students

Anna Slykhous 2011-present

Oliver Holmes 2011

Nitin Shantharam 2007-2010

Andrew Zaldivar 2007-2009

Robert Simpson 2008-2009

Lauren Lewis 2008

David Hubin 2007-2008

Paul Mac Alpine 2006-2008

Andrew Correa 2006-2007

Jared Beam 2005-2007

Zack (Gang) Ji 2006-2007

Uel McMahan	2004-2006
Dung Nguyen	2003-2005
Nathan Ie	2003-2005

Supervised more than 50 undergraduate researchers at MIT, UCF and UCI from 1997-present. These students have gone on to graduate programs at MIT (5), Carnegie Mellon (3), UCI (2), USC (2), Georgia Tech (1), and UCSD (1), and to professional positions at Google, Deloitte, Siemens, IBM, Obsidian Entertainment, Rockwell Collins, Irrational Games and Carnegie Mellon's Robotics Institute. They have received awards including a Fulbright, several Calit2 SURF-IT grants, several ICS Butterworth awards for entrepreneurial student projects, and numerous UCI SURP and UROP grants.

OTHER APPOINTMENTS

<i>Mattel, Inc.</i> , Intern, Design & Development Department	Jan. 1999
<i>Aquent, Inc.</i> , Web Designer and Graphic Designer	1996-1997

PROFESSIONAL MEMBERSHIPS

Association for Computing Machinery (ACM) (SIGGRAPH, SIGCHI)	2003-present
Association for the Advancement of Artificial Intelligence (AAAI)	2005-2007

SELECTED REVIEWS

Review of "Greening through IT: Information technology for environmental sustainability," R. Cleland, Review of Policy Research, Vol. 28(6), 2011.

"Les brevets freinent-ils l'innovation?" Paris Tech Review, 9/23/11.

Review of "Greening through IT: Information technology for environmental sustainability," M. Maldonado, Environmental Politics, Vol. 20(4), 2011

Review of "The Seed Cycle," 4.5/5 stars. bestappsforkids.com, 6/14/11.

Review of "Greening Through IT: Information Technology for Environmental Sustainability," E. Blevis, Environmental Health Perspectives, 2011

"Broadening Horizons through Information Technology," L. Nathan, ACM Interactions, Nov/Dec 2010

"Can Computer Code Be Greener? Facebook Thinks So," D. Zax, FastCompany.com, 11/12/10

Review of "Greening Through IT: Information Technology for Environmental Sustainability," T. Thurheimer, Journal of High Technology Law, 2010

Review of "Greening Through IT: Information Technology for Environmental Sustainability," S. Patton, Choice: Current Reviews for Academic Libraries, Oct 2010

"Virtual Environmentalism," S. Berinato, Technology Review, Nov/Dec 2010

"Green Bridge Over Troubled Media," O. Ogunseitan, Journal of Industrial Ecology, 10/7/10

Review of "Greening Through IT: Information Technology for Environmental Sustainability," A. Wilson, British Computer Society, August 2010

Review of "Greening Through IT: Information Technology for Environmental Sustainability," R. Harle, Leonardo Reviews Online, 7/7/10

"Sustainability through computing," N. Salafsky, Nature, 465, 425 (27 May 2010)

Interview, "Going Green With Technology", Tech Therapy podcast, Host: S. Carlson and W. Arbogast, Chronicle of Higher Education, 3/11/10

"Attempt to End Patents on Genetic Tests Draws University Opposition," P. Baskin, Chronicle of Higher Education, 2/28/10

- “PatentSim Study Revisited: Patent Expertise Equalizes Innovation in Patent and Non-Patent Systems”, PatentDocs blog, 1/27/10
- “Patent Simulation Study Indicates that Patent Protection May Not Encourage Innovation or Promote Societal Wealth”, PatentDocs blog, 1/6/10
- Featured in: NSF 09-068, Report of the Advisory Committee for GPRA Performance Assessment FY 2009, <http://www.nsf.gov/pubs/2009/nsf09068/index.jsp>
- “Research Shows Patents Are Bad for Innovation,” M. Masnick, TechDirt.com, 8/31/09, linked by Forbes.com.
- “Can a Computer Predict Innovation?” Damian Joseph, BusinessWeek.com, 7/29/09
- “Finding Che Guevara’s ‘New Man,’” RichardFromHB, DailyKos blog, 7/29/09
- “PatentSim’ Study Questions Link Between Patent System and Innovation,” T. Dutra, BNA Patent, Trademark & Copyright Journal, Vol. 78, No. 1924, 7/10/09
- “Study says Patents Hurt Innovation,” D. Oshiro, ReadWriteWeb blog, 7/2/09
- “New UCI website decodes political messages,” G. Robbins, OC Register ScienceDude blog, 9/3/08
- “Study: Blog Reading Can Be Addictive,” J. Weisenthal, Washington Post and CBSNews.com, 4/16/08
- “Habit-Forming Blogs: New Research Into Why People Read,” T. Weber, Wall Street Journal, Buzzwatch blog, 4/15/08
- “Researchers peep into the bloggers' world,” Economic Times, India, 4/10/08
- “Beginning blog-ology,” A. Boyle, MSNBC.com Cosmic Log, 4/9/08
- “Study: Blog readers are creatures of habit,” B. Gardiner, Wired.com GadgetLab blog, 4/9/08
- “Blog reading becomes a habit, study says,” CBC News, 4/9/08
- “Blogger Reader's Online Habits Studied,” Dr. Dobbs, 4/9/08
- “Two UCI scientists win prestigious Sloan Fellowships,” G. Robbins, OC Register ScienceDude blog, 2/17/08
- “Friends – and strangers – take in evacuees,” V. Scher and M. K. Seff, LA Times, 10/25/07
- “OC Lends helping hand to fire victims,” G. Hardesty, R. Srisavasdi and E. M. Torres, OC Register, 10/24/07
- “Calit2 Looks Into the Games People Play,” ACM TechNews, 7/16/07
- “Microsoft’s A.U.R.A. project - information at your fingertips,” R. Stewart, ZDNet.com 1/15/07
- “Blog your groceries,” M. Ingram, globeandmail.com. 4/6/06. GreenScanner project also linked/blogged by: worldchanging.com, grist.org, researchbuzz.org, smartmobs.com, ecogeek.org, supervegan.com and numerous other sites.
- “Innovators in O.C. Technology,” Orange County Register, 10/23/05
- “Ecology research as good green fun,” T. Chuang, Orange County Register, 10/17/05
- “Birds fly off the screen to teach ecology,” L. Pickoff-White, Washington Times, 6/14/05
- “The Virtual Raft Project: Bridging the Virtual and Physical Worlds,” T. Ricker, 5/19/05 <http://www.engadget.com/entry/1234000667043876/>
- “The State of Computer-Human Interaction,” Q. Norton, 4/14/05, <http://www.oreillynet.com/pub/a/network/2005/04/14/CHI2005.html>
- “Running with the virtual wolves,” W. Hermann, The Arizona Republic, 9/20/04
- “Notable New Research,” A. Stern, grandtextauto.org, blog post, 11/20/03
- “UCI Beall Ctr. Opens the Season with Virtual Wolf Exhibit,” Higher Learning, Nov/Dec ‘03
- “Howl with the wolves,” T. Chuang, Orange County Register, 10/10/03

- “The Intimate Machine,” Scientific American Frontiers, Host: Alan Alda, 10/22/02
- “Pet Tech,” Scientific American Frontiers, Host: Alan Alda, 10/16/01
- “Fresh Gear,” Tech TV, 9/22/01
- “Dancing with virtual wolves,” A. Hermida, news.bbc.co.uk, 9/10/01
- “Gadgetry Still Dazzles at Tech Conference, But Tech Slump Affects Turnout,” M. P. Grenier, The Wall Street Journal, 8/22/01
- “Where the Mona Lisa Meets the Motherboard,” G. Gaslin, LA Times, 8/17/01
- “Computer Developers Aiming to Exterminate the Mouse,” A. Pham, LA Times, 8/14/01
- “Feeling the virtual force in LA,” T. Logan, news.bbc.co.uk, 8/12/01
- “Stretching it out at SIGGRAPH,” M. Stroud, www.wired.com, 8/11/01
- “Exposure,” Sci-Fi Channel, Host: Lisa Marie, 4/28/01
- “Banff Media Institute Living Architectures,” Leonardo Electronic Archive, Vol. 8, No. 12, 12/06/00
- “Banff living architectures summit,” M. Locke, www.rhizome.org, 9/28/00
- “Lights, Camera, Interaction,” D. P. Mahoney, Computer Graphics World, 4/00
- “Sklave oder bester Freund?” W. Lackner, 3D Live, 4/00
- “High Tech Entertainment,” CNN, 12/21/99
- “Philadelphia,” M. Moss and R. Rice, Sculpture Magazine, 5/99
- “Thinking' game characters in development,” USA Today, 8/11/99
- “MIT designs toys of tomorrow,” R. Sykes, www.cnn.com, 12/21/98
- “Siggraph Exhibit Gets a Lot of Hits,” K. Kaplan, LA Times, 8/11/97
- “Critical Mass Art,” R. Rice, Philadelphia City Paper, 12/4/96
- “Young filmmaker brings talents home,” C. McGroarty, Philadelphia Inquirer, 8/18/95

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