

ERIC P. S. BAUMER

Computer Science & Engineering • 235 Building C • 113 Research Drive • Bethlehem, PA 18015
<http://ericbaumer.com> • ericpsb at lehigh dot edu

EDUCATION

- Ph.D. Information and Computer Sciences, Department of Informatics, 2009
University of California, Irvine
Dissertation: *Computational Metaphor Identification to Foster Critical Thinking and Creativity*
Dissertation Committee: Bill Tomlinson (advisor), Lindsey Richland, Paul Dourish
- M.S. Information and Computer Sciences, Department of Informatics, 2006
University of California, Irvine
Advisor: Bill Tomlinson
- B.S. Computer Science with Honors in the Major, Minor in Music, Magna Cum Laude, 2004
University of Central Florida, Orlando, FL
Thesis: *Toward the Design of an Emotion-Like State Generator for a Robotic Office Assistant*
Thesis Committee: Christine Lisetti (chair), Charles E. Hughes, Mason Cash

APPOINTMENTS

- Lehigh University, Computer Science & Engineering Department
Assistant Professor, 2017-current
- Cornell University, Communication Department
Research Associate, 2013-2016
Postdoctoral Associate, 2010-2013
Lecturer, 2012 Spring
- University of California, Irvine, Department of Informatics
Assistant Project Scientist, 2009-2010
Graduate Research Assistant, 2005-2006, 2008-2009
Teaching Assistant, 2007-2008
- Community Technologies Group, Microsoft Research
Research Intern, Summer 2006
- University of Central Florida, Burnett Honors College Summer Institute
Teaching Assistant, 2003, 2004 (summers)

PUBLICATIONS

Journal Papers

- J18. **Baumer, E.P.S.**, Sun, R., and Schaedler, P. (2018). Departing and Returning: Sense of Agency as an Organizing Concept for Understanding Social Media Non/use Transitions. *Proceedings of the ACM Human-Computer Interaction 1*, CSCW: 23:1-23:19. [25.6% acceptance rate]
- J17. **Baumer, E.P.S.**, Snyder, J., and Gay, G. (2018). Interpretive Impacts of Text Visualization: Mitigating Political Framing Effects. *ACM Transactions on Human-Computer Interaction (ToCHI)*.

- J16. Hohenstein, J.C., **Baumer, E.P.S.**, Reynolds, L., Murnane, E.L., O'Dell, D., Lee, S., Guha, S., Qi, Y., Rieger, E., and Gay, G. (2018). Supporting Accurate Interpretation of Self-Administered Medical Test Results for Mobile Health: Assessment of Design, Demographics, and Health Condition. *Journal of Medical Internet Research (JMIR) Human Factors* 5(1): e9.
- J15. **Baumer, E.P.S.** (2017). Toward Human-Centered Algorithm Design. *Big Data & Society*, 4(2).
- J14. **Baumer, E.P.S.**, Mimno, D., Guha, S., Quan, E., and Gay, G. (2017). Comparing Grounded Theory and Topic Modeling: Extreme Divergence or Unlikely Convergence? *Journal of the Association for Information Science and Technology (JASIST)*, 68(6): 1397–1410.
- J13. Wyche, S.P. and **Baumer, E.P.S.** (2016). Imagined Facebook: An Exploratory Study of Non-Users' Perceptions of Social Media in Rural Zambia. *New Media & Society*.
- J12. **Baumer, E.P.S.**, Guha, S., Quan, E., Mimno, D., and Gay, G. (2015). How Social Media Non-use Influences the Likelihood of Reversion: Perceived Addiction, Boundary Negotiation, Subjective Mood, and Social Connections. *Social Media + Society*, 1(2).
- J11. **Baumer, E.P.S.**, Ames, M.G., Burrell, J., Brubaker, J.R., and Dourish, P. (2015) Why Study Technology Non-use? *First Monday, Guest Editors' Introduction to Special Issue on Non-use of Technology: Perspectives and Approaches*.
- J10. **Baumer, E.P.S.**, Polletta, F., Pierski, N., and Gay, G. (2017). A Simple Intervention to Reduce Framing Effects in Perceptions of Global Climate Change. *Environmental Communication*, 11(3): 289-310. [published online 2015]
- J9. Epstein, D., Roth, M., and **Baumer, E.P.S.** (2014). It's the Definition, Stupid! Framing of Online Privacy in the Internet Governance Forum Debates. *Journal of Information Policy*, 4: 144-172.
- J8. **Baumer, E.P.S.**, Cipriani, C., Davis, M., He, G., Jeffrey-Wilensky, J., Kang, J., Lee, J., Zupnick, J., and Gay, G. (2014). Broadening Exposure, Questioning Opinions, and Reading Patterns with Reflex: a Computational Support for Frame Reflection. *Journal of Information Technology and Politics*, 11(1): 45-63.
- J7. Snyder, J., **Baumer, E.P.S.**, Volda, S., Adams, P., Halpern, M., Choudhury, T., and Gay, G. (2014). Making Things Visible: Opportunities and Tensions in Visual Approaches for Design Research. *Human-Computer Interaction*, 29(5-6): 45-63.
- J6. **Baumer, E.P.S.**, Khovanskaya, V., Adams, P., Pollak, JP, Volda, S., and Gay, G. (2013). Designing for Engaging Experiences in Mobile Social-Health Support Systems. *IEEE Pervasive, Special Issue on Understanding and Changing Behavior*, 12(3): 32-39.
- J5. Ming, N. and **Baumer, E.P.S.** (2011). Using Text Mining to Characterize Online Discussion Facilitation. *Journal of Asynchronous Learning Networks*, 15(2): 71-109.
- J4. **Baumer, E.P.S.**, Sueyoshi, M., and Tomlinson, B. (2011). Bloggers and Readers Blogging Together: Collaborative Co-Creation of Political Blogs. *Computer Supported Cooperative Work*, 20(1-2): 1-36.
- J3. Beitz, M.J., **Baumer, E.P.S.**, and Lee, C.P. (2010). Synergizing in Cybinfrastructure Development. *Computer Supported Cooperative Work, Special Issue on Cyberinfrastructure*, 19 (3-4): 245-281.

- J2. Tomlinson, B., Yau, M.L., **Baumer, E.**, Ross, J., Correa, A., and Ji, G. (2009). Richly Connected Systems and Multi-Device Worlds. *Presence: Teleoperators and Virtual Environments*, 18(1), MIT Press.
- J1. Tomlinson, B., **Baumer, E.**, Yau, M.L., Carpenter, F.L., and Black, R. (2008). A Participatory Simulation for Informal Education in Restoration Ecology. *E-Learning*, 5 (3).

Conference Proceedings

- C36. **Baumer, E.P.S.** (2018). Socioeconomic Inequalities in the Non/use of Facebook. in *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)*. (Montréal, QC). [25.7% acceptance rate]
- C35. **Baumer, E.P.S.**, Berrill, T., Botwinick, S.C., Gonzales, J.L., Ho, K., Kundrik, A., Kwon, L., LaRowe, T., Nguyen, C.P., Ramirez, F., Schaedler, P., Ulrich, W., Wallace, A., Wan, Y., and Weinfeld, B. (2018). What Would *You* Do? Design Fiction and Ethics. in *Proceedings of the ACM Conference on Supporting Group Work (GROUP), Design Fiction Track*. (Sanibel Island, FL). [66% acceptance rate]
- C34. Guha, S., **Baumer, E.P.S.**, and Gay, G. (2018). Regrets, I've Had A Few: When Regretful Experiences Do (and Don't) Compel Users to Leave Facebook. in *Proceedings of the ACM Conference on Supporting Group Work (GROUP)*. (Sanibel Island, FL). [23.4% acceptance rate]
- C33. McInnis, B.J., Cosley, D., **Baumer, E.P.S.**, Leshed, G. (2018). Effects of Comment Curation with Opposition on Coherence in Online Policy Discussion. in *Proceedings of the ACM Conference on Supporting Group Work (GROUP)*. (Sanibel Island, FL). [23.4% acceptance rate]
- C32. **Baumer, E.P.S.** and Brubaker, J.R. (2017). Post-userism. in *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)*. (Denver, CO). [25% acceptance rate]
- C31. **Baumer, E.P.S.**, Xu, X., Chu, C., Guha, S., and Gay, G.K. (2017). When Subjects Interpret the Data: Social Media Non-use as a Case for Adapting the Delphi Method to CSCW. in *Proceedings of the ACM Conference on Computer Supported Cooperative Work & Social Computing (CSCW)*. (Portland, OR). [34.5% acceptance rate]
- C30. Muller, M., Guha, S., **Baumer, E.P.S.**, Mimno, D., and Shami, N.S. (2016). Machine Learning and Grounded Theory Method: Convergence, Divergence, and Combination. in *Proceedings of the ACM Conference on Supporting Group Work (GROUP)*. (Sanibel Island, FL). [32% acceptance rate]
- C29. Scolere, L., **Baumer, E.P.S.**, Reynolds, L., and Gay, G. (2016). Building Mood, Building Community: Usage Patterns of an Interactive Art Installation. in *Proceedings of the ACM Conference on Supporting Group Work (GROUP)*. (Sanibel Island, FL). [32% acceptance rate]
- C28. Khovanskaya, V., **Baumer, E.P.S.**, and Sengers, P. (2015). Double Binds and Double Blinds: Evaluation Tactics in Critically Oriented HCI. in *Proceedings of the Fifth Decennial Aarhus Conference: Critical Alternatives*. (Aarhus, Denmark). [29.6% acceptance rate]
- C27. **Baumer, E.P.S.**, Elovic, E., Qin, Y., Polletta, F., and Gay, G. (2015). Testing and Comparing Computational Approaches for Identifying the Language of Framing in Political News. in *Proceedings of the Conference of the North American Chapter of the Association for Computational Linguistics – Human Language Technologies Conference (NAACL-HLT)*. (Denver, CO). [26% acceptance rate]

- C26. **Baumer, E.P.S.** (2015). Reflective Informatics: Conceptual Dimensions for Designing Technologies of Reflection. in *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)*. (Seoul, South Korea). [23% acceptance rate]
- C25. **Baumer, E.P.S.** (2015). Usees. in *ACM Conference on Human Factors in Computing Systems (CHI)*. (Seoul, South Korea). [23% acceptance rate]
- C24. Penzenstadler, B., Tomlinson, B., **Baumer, E.P.S.**, Pufal, M., Raturi, A., Richardson, D., Cakici, B., Chitchyan, R., Da Costa, G., Dombrowski, L., Edwardsson, M.P., Eriksson, E., Franch, X., Hayes, G.R., Herzog, C., Lohmann, W., Mahaux, M., Mavin, A., Mazmanian, M., Nayebaziz, S., Norton, J., Pargman, D., Silberman, M.S., Simonson, K., Torrance, A.W., van der Hoek, A. (2014). ICT4S 2029: What will be the Systems Supporting Sustainability in 15 Years? in *International Conference on ICT for Sustainability (ICT4S)*. (Stockholm, Sweden).
- C23. Polletta, F., Pierski, N.M., **Baumer, E.P.S.**, Celaya, C., and Gay, G. (2014). A “Peopled” Strategy of Frame Reflection. *Annual Meeting of the American Sociological Association (ASA)*. (San Francisco, CA).
- C22. **Baumer, E.P.S.**, Khovanskaya, V., Matthews, M., Reynolds, L., Sosik, V.S., and Gay, G.K. (2014). Reviewing Reflection: On the Use of Reflection in Interactive System Design. in *ACM Conference on Designing Interactive Systems (DIS)*. (Vancouver, BC). [26% acceptance rate]
- C21. Adams, P., **Baumer, E.P.S.**, Gay, G. (2014). Staccato Social Support in Mobile Health Applications. in *ACM Conference on Human Factors in Computing Systems (CHI)*. (Toronto, ON). [23% acceptance rate]
- C20. **Baumer, E.P.S.**, Adams, P., Khovanskya, V., Liao, T., Smith, M.E., Sosik, V.S., Williams, K. (2013). Limiting, Leaving, and (re)Lapsing: A Survey of Facebook Non-use Practices and Experiences. in *ACM Conference on Human Factors in Computing Systems (CHI)*. (Paris, France). [20% acceptance rate]
- C19. Khovanskaya, V., **Baumer, E.P.S.**, Cosley, D., Vaida, S., and Gay, G.K. (2013). "Everybody Knows What You're Doing": A Critical Design Approach to Personal Informatics. in *ACM Conference on Human Factors in Computing Systems (CHI)*. (Paris, France). [20% acceptance rate]
- C18. **Baumer, E.P.S.**, Polletta, F., Pierski, N., Celaya, C., Rosenblatt, K., and Gay, G.K. (2013). Developing Computational Supports for Frame Reflection. in *Proceedings of the iConference*. (Fort Worth, TX). [36% acceptance rate]
- C17. Brynjarsdóttir, H., Håkansson, M., Pierce, J., **Baumer, E.P.S.**, DiSalvo, C., and Sengers, P. (2012). Sustainably Unpersuaded: How Persuasion Narrows our Vision of Sustainability. in *ACM Conference on Human Factors in Computing Systems (CHI)*. (Austin, TX). [23% acceptance rate]
- C16. **Baumer, E.P.S.**, Katz, S.J., Freeman, J.E., Adams, P., Gonzales, A.L., Pollak, JP, Retelny, D., Niederdeppe, J., Olson, C., and Gay, G. (2012). Prescriptive Persuasion and Open-Ended Social Awareness: Expanding the Design Space of Mobile Health. in *ACM Conference on Computer-Supported Cooperative Work (CSCW)*. (Bellevue, WA). [39% acceptance rate – **nominated for Best Paper award**]
- C15. Smith, M.E., Nguyen, D.M., Lai, C., Leshed, G., and **Baumer, E.P.S.** (2012). Going to College and Staying Connected: Communication Between College Freshmen and their Parents. in *ACM Conference on Computer-Supported Cooperative Work (CSCW)*. (Bellevue, WA). [39% acceptance rate]

- C14. **Baumer, E.P.S.** and Tomlinson, B. (2011). Comparing Activity Theory with Distributed Cognition for Video Analysis: Beyond “Kicking the Tires.” in *ACM Conference on Human Factors in Computing Systems (CHI)*. (Vancouver, BC). [26% acceptance rate – **Honorable Mention Award**, given to top 5% of papers]
- C13. **Baumer, E.P.S.** and Silberman, S.M. (2011). When the Implication Is Not to Design (Technology). in *ACM Conference on Human Factors in Computing Systems (CHI)*. (Vancouver, BC). [26% acceptance rate – **Honorable Mention Award**, given to top 5% of paper]
- C12. Halpern, M., Evjen, M., Tholander, J., Ehrlich, J.A., **Baumer, E.P.S.**, and Gay, G. (2011). MoBoogie: Creative Expression Through Whole Body Musical Interaction. in *ACM Conference on Human Factors in Computing Systems (CHI)*. (Vancouver, BC). [26% acceptance rate – **Honorable Mention Award**, given to top 5% of papers]
- C11. 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).
- C10. **Baumer, E.P.S.**, Sinclair, J., and Tomlinson, B. (2010). “America Is Like Metamucil.” Critical and Creative Thinking about Metaphor in Political Blogs. in *ACM Conference on Human Factors in Computing Systems (CHI)*. (Atlanta, GA). [22% acceptance rate]
- C9. **Baumer, E.P.S.**, Tomlinson, B., Hansen, J., and Richland, L.E. (2009). Fostering Metaphorical Creativity Using Computational Metaphor Identification. in *ACM Conference on Creativity & Cognition*. (Berkeley, CA). [23% acceptance rate]
- C8. **Baumer, E.P.S.**, Sinclair, J., Hubin, D., and Tomlinson, B. (2009). metaViz: Visualizing Computationally Identified Metaphors in Political Blogs. in *Symposium on Social Intelligence and Networking (SIN)* at *The IEEE Symposium on Social Computing (SocialCom)*. (Vancouver, BC, Canada).
- C7. **Baumer, E.**, Tomlinson, B., and Richland, L.E. (2009). Computational Metaphor Identification: A Method for Identifying Conceptual Metaphors in Written Text. in *The Second International Analogy Conference (Analogy09)*. (Sofia, Bulgaria).
- C6. **Baumer, E.**, Richland, L.E., and Tomlinson, B. (2009). Applying Computational Metaphor Identification to Middle School Students' Writing about Cellular Reproduction. in *National Association for Research in Science Teaching Annual Conference (NARST)*. (Garden Grove, CA). [64% acceptance rate]
- C5. **Baumer, E.**, Sueyoshi, M., and Tomlinson, B. (2008). Exploring the Role of the Reader in the Activity of Blogging. in *ACM Conference on Human Factors in Computing Systems (CHI)*. (Florence, Italy). [22% acceptance rate]
- C4. **Baumer, E.** and Fisher, D. (2008). Smarter Blogroll: An Exploration of Social Topic Extraction for Manageable Blogrolls. in *Hawai'i International Conference on System Sciences (HICSS)*, *Social Spaces Minitrack*, (Big Island, HI). [38% acceptance rate – revised version of TR1]
- C3. **Baumer, E.** and Tomlinson, B. (2006). The Interconnected Roles of Abstraction and Emergence in Artificial Societies. in *AAAI Fall Symposium on Interaction and Emergent Phenomena in Societies of Agents*, (Arlington, VA).
- C2. Alspaugh, T. A., Tomlinson, B. and **Baumer, E.** (2006). Using Social Agents to Visualize Software Scenarios. in *ACM Symposium on Software Visualization (SOFTVIS '06)*, (Brighton, UK). [36% acceptance rate]

- C1. Tomlinson, B., Yau, M. L. and **Baumer, E.** (2006). Embodied Mobile Agents. *Fifth International Joint Conference on Autonomous Agents and Multi Agent Systems*, (Hakodate, Japan). [23% acceptance rate]

Academic and Scholarly Magazine Articles

- M2. **Baumer, E.P.S.**, Burrell, J., Ames, M.G., Brubaker, J.R., Dourish, P. (2015). On the Importance and Implications of Studying Technology Non-use. *interactions*.
- M1. **Baumer, E.P.S.** (2011). Accounting for Social Change in Design. *User Experience*, 10(2), 14-16.

Workshop Papers, Posters, and Other Fora

- W22. Skeba, P. and **Baumer, E.P.S.** (2018). Anonymity Will Not Save You: Empirical and Theoretical Obstacles to Studying Algorithmic Privacy. in *Privacy in Context: Critically Engaging with Theory to Guide Privacy Research and Design Workshop at ACM Conference on Computer-Supported Cooperative Work (CSCW)*, (Jersey City, NJ).
- W21. **Baumer, E.P.S.** and Forte, A. (2017). Undoing the Privacy Paradox with Data Styles. in *In Whose Best Interest? Networked Privacy Workshop at ACM Conference on Computer-Supported Cooperative Work (CSCW)*, (Portland, OR).
- W20. **Baumer, E.P.S.** (2015). “Us vs. Them”?: Negotiating Tensions among Multiple Audiences for Critical (Technical) Practices. in *Shifting Borderlands of Technoscience: Tracing Trajectories of Critical Practice, Workshop at the 5th Decennial Aarhus Conference on “Critical Alternatives,”* (Aarhus, Denmark).
- W19. Tomlinson, B., Norton, J., **Baumer, E.P.S.**, Pufal, M., and Raghavan, B. (2015). Self-Obviating Systems and their Application to Sustainability. in *iConference: Preliminary Results Track*, (Newport Beach, CA). [59% acceptance rate; **Finalist for Most Interesting Preliminary Results**]
- W18. **Baumer, E.P.S.**, Ahn, J., Bie, M., Bonsignore, E.M., Börütecene, A., Buruk, O.T., Clegg, T., Druin, A., Echler, F., Gruen, D., Guha, M.L., Hordatt, C., Krüger, A., Maidenbaum, S., Malu, M., McNally, B., Muller, M., Norooz, L., Norton, J., Özcan, O., Patterson, D.J., Riener, A., Ross, S.I., Rust, K., Schöning, J., Silberman, M.S., Tomlinson, B., Yip, J. (2014). CHI 2039: Speculative Research Visions. *ACM Conference on Human Factors in Computing Systems, Extended Abstracts (alt.chi)*. [37.5% acceptance rate]
- W17. Tomlinson, B., J. Ross, P. André, **E.P.S. Baumer**, D.J. Patterson, J. Corneli, M. Mahaux, S. Nobarany, M. Lazzari, P. Penzenstadler, A.W. Torrance, D.J. Callele, G.M. Olson, M.S. Silberman, M. Ständer, F.R. Palamedi, A. Salah, E. Morrill, X. Franch, F. Mueller, J. Kaye, R.W. Black, M.L. Cohn, P.C. Shih, J. Brewer, N. Goyal, P. Näkki, J. Huang, N. Baghaei, and C. Saper. (2012). Massively Distributed Authorship of Academic Papers. *ACM Conference on Human Factors in Computing Systems, Extended Abstracts (alt.chi)*, (Austin, TX). [47% acceptance rate]
- W16. **Baumer, E.P.S.**, and Gay, G.K. (2012). From Analyzing to Reflection: Computational Supports for Frame Reflection. in *Design, Influence, and Social Technologies, Workshop at ACM CSCW Conference*, (Seattle, WA).
- W15. Deline, M.B., **Baumer, E.P.S.**, and Gay, G.K. (2012). Normative Communication Processes and Associated Emotion in Mobile Health Groups. *Poster at ACM CSCW Conference*, (Seattle WA).

- W14. **Baumer, E.P.S.**, Halpern, M., Khovanskaya, V., and Gay, G. K. (2011). The Practice of Everyday Sustainability: the View from a Farmers' Market. in *Everyday Practice and Sustainability: Understanding and Learning from Cultures of (Un)Sustainability, Workshop at ACM SIGCHI Conference*, (Vancouver, BC).
- W13. Gonzales, A.L., Pollak, JP, Retelny, D., **Baumer, E.P.S.**, and Gay, G. (2011). A Mobile Application for Improving Health Attitudes: Being Social Matters. in *Personal Informatics & HCI: Design, Theory, & Social Implications, Workshop at ACM SIGCHI Conference*, (Vancouver, BC).
- W12. **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). [66% acceptance rate]
- W11. **Baumer, E.** and Leis, A. (2010). Minimalists and Zealots: Genres of Participation in Following on Twitter. in *Microblogging: What and How Can We Learn From It? Workshop at ACM SIGCHI Conference*, (Atlanta, GA).
- W10. **Baumer, E.** and Tomlinson, B. (2008). Computational Metaphor Identification in Communities of Blogs. in *International Conference on Weblogs and Social Media (ICWSM) Poster Session*. (Seattle, WA).
- W9. **Baumer, E.**, Sueyoshi, M., and Tomlinson, B. (2008). Examining Privacy in Blogging from the Reader's Perspective. in *International Conference on Weblogs and Social Media (ICWSM) Poster Session*. (Seattle, WA).
- W8. **Baumer, E.** (2007). Computational Metaphor Extraction to Encourage Critical Reflection and Support Epistemological Pluralism. in *Doctoral Consortium of the Conference on Computer Supported Collaborative Learning (CSCL)*, (New Brunswick, NJ). [56% acceptance rate]
- W7. **Baumer, E.** and Tomlinson, B. (2007). Questioning the Technological Panacea: Three Reflective Questions for Designers. in alt.CHI Session of *CHI'07 Extended Abstracts on Human Factors in Computing Systems*, (San Jose, CA). [41% acceptance rate]
- W6. **Baumer, E.** and Tomlinson, B., (2007). Advocating Polytheoretic Evaluation of Interactive Art and New Media. in *HCI and New Media: Methodology and Evaluation; Workshop at ACM SIGCHI Conference*, (San Jose, CA).
- W5. Alspaugh, T. A., **Baumer, E.**, and Tomlinson, B. (2006). On a Mixed-Methods Evaluation of a Social-Agent Scenario Visualization. in *Fourth International Workshop on Comparative Evaluation in Requirements Engineering (CERE'06)*, (Minneapolis, MN).
- W4. Tomlinson, B., **Baumer, E.** and Yau, M.L. (2006). The Island Metaphor. in *SIGGRAPH 2006 Posters*, (Boston, MA).
- W3. Tomlinson, B., Yau, M. L., **Baumer, E.**, Goetz, S., Carpenter, L., Pratt, R., Young, K., May-Tobin, C. (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).
- W2. **Baumer, E.** and Tomlinson, B. (2005). Synthetic Social Construction for Autonomous Characters. in *AAAI Workshop on Modular Construction of Human-Like Intelligence*, (Pittsburgh, PA).

- W1. Williams, A. and **Baumer, E.** (2005). Exploring Shopping Malls as Sites of Suburban Computing. in *Engaging the City: Public Interfaces as Civic Intermediary, Workshop at CHI 2005*, (Portland, OR).

Chapters in Edited Volumes

- Ch3. **Baumer, E.P.S.**, Halpern, M., Khovanskaya, V., and Gay, G.K. (2014). Probing the Market: Using Cultural Probes to Inform Design for Sustainable Food Practices at a Farmers' Market. in Choi, J., Foth, M., and Hearn, G. (eds.) *Eat, Cook, Grow: Mixing Human-Computer Interaction and Human-Food Interaction*, pp. 135-151. Cambridge, MA: MIT Press.
- Ch2. **Baumer, E.** and Tomlinson, B. (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*, pp. 288-304. Hershey, PA: IGI-Global.
- Ch1. **Baumer, E.** and Tomlinson, B. (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 Autonomic and Agent-Based Systems, Lecture Notes in Computer Science*, Vol. 3825, pp. 122-134, Springer-Verlag, 2006.

Technical Reports

- TR2. **Baumer, E.P.S.**, Hubin, D., and Tomlinson, B. (2010). Computational Metaphor Identification (LUCI-2010-002). Laboratory for Ubiquitous Computing and Interaction (LUCI) Technical Reports. Irvine, CA: Department of Informatics, University of California, Irvine.
- TR1. **Baumer, E.** and Fisher, D. (2007). Smarter Blogroll: An Exploration of Social Topic Extraction for Manageable Blogrolls (TechReport MSR-TR-2007-18). Redmond, WA: Microsoft Research. [revised version published as C4].

INTERACTIVITY

Organized Workshops

- O3. **Baumer, E.P.S.**, Ames., M., Brubaker, J., Burrell, J., and Dourish, P. (2014). Refusing, Limiting, Departing: Why We Should Study Technology Non-use. *Workshop at ACM Conference on Human Factors in Computing Systems (CHI)*. (Toronto, ON). [lead organizer]
- O2. **Baumer, E.**, Brewer, J., Brown, B., Leahu, L., Lindtner, S., and Martin, K. (2009). Hybrid Design Practices. *Workshop at International Conference on Ubiquitous Computing (UbiComp2009)*. (Orlando, FL). [co-organizer]
- O1. **Baumer, E.** and Biel, K. (2007). Graduate Student Forum on Interdisciplinary Research. California Institute for Telecommunications and Information Technology (Calit2). (Irvine, CA). [lead organizer]

Panel and Discussant Presentations

- PD5. **Baumer, E.P.S.**, Bernstein, G., Jia, H., Peters, N., and Wang, R. (2017). What Happens When People Try to Quit Social Media? *Panelist, Data X Symposium; TMI: The Privacy Risk of Social Media Addiction*. Lehigh University, November 6, 2017.

- PD4. Anderson, E., **Baumer, E.P.S.**, and Cosley, D. My Favorite HCI paper. *Guest Panelist, Human Computer Interaction (Comm/Info 3450)*. Cornell University, November 19, 2015.
- PD3. Pan, Y. and Thomas, J.C. (2012). Hot or Not: A Qualitative Study on Ecological Impact of Social Media and Fashion Consumption. in *ACM Conference on Computer-Supported Cooperative Work, CSCW Horizons Session*. (Bellevue, WA). [paper **discussant**]
- PD2. Ok, H.R., Wallis, C., Liang, R.Y.H., Walraven, K., Lim, M., and **Baumer, E.P.S.** (2010). Youth, New Media, and Public Participation in International Contexts. at *First Annual Digital Media and Learning Conference – Diversifying Participation*. (La Jolla, CA). [panel **discussant**]
- PD1. Dourish, P., Sim, S.E., and Tomlinson, B. (2009). Environmental Sustainability and Information Technology. *UC Irvine Informatics Seminar* (Irvine, CA). [panel **organizer and moderator**]

Interactive Installations

- I3. Tomlinson, B., **Baumer, E.**, Yau, M.L., MacAlpine, P., Canales, L., Correa, A., Hornick, B. and Sharma, A. (2007). Dreaming of Adaptive Interface Agents. in *ACM Conference on Human Factors in Computing Systems (CHI 2007) Extended Abstracts (Trends - Interactivity)*, (San Jose, CA).
- I2. **Baumer, E.**, Tomlinson, B., Yau, M.L., Alspaugh, T.A. (2006). "Normative Echoes: Use and manipulation of player generated content by communities of NPCs." in *Artificial Intelligence and Interactive Digital Entertainment (AIIDE-06), Demonstration Program*. (Marina del Rey, CA). [83% acceptance rate]
- I1. Tomlinson, B., Yau, M.L., Gray, J., **Baumer, E.**, Goetz, S., O'Connell, J., Williams, K., Yamaoka, S. (2005). Virtual Raft Project. in *ACM SIGGRAPH 2005, Emerging Technologies*, (Los Angeles, CA). [12% acceptance rate]

Speaking, Lectures, and Other Presentations

- S18. Baumer, E.P.S. (2017). Could you quit Facebook for 99 days? *Mountain Talks*. Lehigh University. July 26, 2017.
- S17. Baumer, E.P.S. (2017). Toward Human-Centered Algorithm Design. *Invited Panelist, Data X Symposium, Lost and Found in Information*. Lehigh University. May 3, 2017.
- S16. Baumer, E.P.S. (2016). How Does Google Work? *Guest Speaker, Great American Teach-In, 8th Grade Science Class*. Safety Harbor Middle School. November 16, 2016.
- S15. Baumer, E.P.S., Cosley, D., Andersen, E. (2015). My Favorite Human-Computer Interaction Paper. *Invited Panelist, Intro to Human-Computer Interaction (Comm/Info 3450)*. Cornell University, November 17, 2015.
- S14. Baumer, E.P.S. (2014). Computational Imaginaries: Lay Beliefs about What Computers Can Do and Should Do. *Invited Talk, Information Science Graduate Student Seminar*. Cornell University. November 13, 2014.
- S13. Baumer, E.P.S. (2014). Feminist HCI. *Guest Lecture, Advanced Human-Computer Interaction Design (Comm/Info 4400)*. Cornell University. April 15, 2014.
- S12. Baumer, E.P.S. (2011). Blogging and Blog Reading. *Guest Lecture, Computer-Mediated Communication (Comm/Info 4500)*. Cornell University. March 10, 2011.

- S11. Baumer, E.P.S. (2010). metaViz: Computational Analysis for Fostering Critical Thinking and Political Deliberation. *DIY Citizenship Conference*. University of Toronto. November 14, 2010.
- S10. Baumer, E.P.S. (2010). Blog Reading as Collaborative Co-Creation. *Invited Talk, Information Science Breakfast Series*. Cornell University. October 13, 2010.
- S9. Baumer, E.P.S. (2009). Computational Technology and Situated Cognition. *Guest Lecture, Social Analysis of Computing (In4matx 161)*. University of California, Irvine. November 17, 2009.
- S8. Baumer, E. (2009). Fostering Critical Thinking and Metaphorical Creativity with Computational Metaphor Identification. *Invited Talk, School of Education Graduate Seminar*. University of California, Irvine. October 26, 2009.
- S7. Baumer, E. (2009). What Do Metaphors Have to Do with Computers or Science? *Guest Speaker, 7th Grade IMAST (Integrating Mathematics and Science with Technology) Gifted Science Class*. Carwise Middle School. January 5, 2009.
- S6. Baumer, E. (2008). Blog Readers and Political Metaphor. *Guest Lecture, Social Analysis of Computing (In4matx 161)*. University of California, Irvine. November 18, 2008.
- S5. Baumer, E. (2008). Blog Reading and the Role of the Reader. *Guest Speaker*. Orange County Register. May 12, 2008.
- S4. Baumer, E. (2008). Blog Reading and Blog Readers: Tools and Practices. *Invited Research Talk*. Microsoft Research, Redmond. May 8, 2008.
- S3. Baumer, E. (2008). Blog Reading and Blog Readers: Tools and Practices. *Guest Speaker, DUB Research Group*. University of Washington. April 2, 2008.
- S2. Baumer, E. (2008). Emotion and Computation in Computer Games. *Guest Lecture, University Studies 12 Computer Games as Art, Culture, and Technology*. University of California, Irvine. February 12, 2008.
- S1. Baumer, E. (2007). Metaphor – Blogging – Politics. *Guest Lecture, Social Analysis of Computing (In4matx 161)*. University of California, Irvine. November 15, 2007.

FUNDING

Grants

- G8. NSF Secure and Trustworthy Cyberspace (SaTC), \$269,534, “Algorithms Everywhere: Identifying and Designing for Data Privacy Styles,” **Eric P. S. Baumer** (PI), Andrea Forte (co-PI), 2018-current.
- G7. Lehigh Mountaintop Experience, \$, “Negotiating Collective Privacy,” Haiyan Jia (PI), Eric P. S. Baumer (co-PI), Ting Wang (co-PI), 2018.
- G6. Lehigh Mountaintop Experience, \$10,700, “DataLight: An Interactive Multimedia Installation,” **Eric P. S. Baumer** (PI), 2017.
- G5. Cornell Institute for Social Sciences, \$10,000, “Developing Methods for Joint Analysis of Closed- Ended and Open-Ended Survey Data,” David Mimno (PI), **Eric P. S. Baumer** (Co-PI), 2015-2016.

- G4. NSF Cyber-Human Systems (CHS), \$499,860, “Non-use as a Transformative Lens for Understanding Social Technology,” Geri Gay (PI), **Eric P. S. Baumer** (Co-PI), 2014-2018; REU Supplements totaling \$12,000.
- G3. NSF Social-Computational Systems (SoCS), \$467,019, “Improving Online Deliberation with Computational Supports for Frame Reflection,” Geri Gay (PI), Francesca Polletta (co-PI) [**grant proposal written as postdoc**], 2011-2014; REU Supplements totaling \$20,000.
- G2. Cornell Institute for Social Sciences, \$7,500, “Developing Computational Supports for Frame Reflection,” Geri Gay (PI), **Eric P. S. Baumer** (Co-PI), 2011-2012.
- G1. NSF CreativeIT, \$200,000, “Computational Metaphor Identification for Supporting Creativity in Science Education,” Bill Tomlinson (PI), Lindsey Richland (Co-PI) [**grant proposal written as grad student**], 2008-2010.

AWARDS

Honors

- Joel & Ruth Spira Excellence in Teaching Award, 2018
- Honorable Mention Paper Awards (top 5% of submissions)
 - ACM SIGCHI Conference, 2011 (x3)
- Best Paper Nominations
 - ACM SIGCHI Conference, 2017
 - ACM CSCW Conference, 2012
- Special Recognition for Reviewers
 - ACM CSCW Conference 2015 (x2)
 - ACM CHI Conference 2014 (x2)
- Finalist, Microsoft Research Graduate Fellowship, 2006
- Finalist, Peoria Prize, “The Virtual Raft Project,” 2005
- Burnett Honors College Honors in the Major, 2004
- Burnett Honors College University Honors, 2004

Fellowships and Scholarships

- NSF CreativeIT Travel Grant, 2008
- Calit2 Emulex Fellowship, 2006-2007
- GAANN Fellowship, 2006-2007
- UC Irvine School of Information and Computer Science Dean’s Fellowship, 2004-2006
- UCF Honors in the Major Thesis Scholarship, 2003
- UCF Burnett Honors College Summer Study Abroad Scholarship, Summer 2001
- Florida Bright Futures Scholarship, 2000-2004

TEACHING

Instructor

- 2018 Fall, Lehigh – User Interface Systems and Techniques
- 2018 Spring, Lehigh – Computers, the Internet, and Society
- 2017 Fall, Lehigh – User Interface Systems and Techniques
- 2017 Spring, Lehigh – Computers, the Internet, and Society
- 2015 Spring, Cornell – Human Computer Interaction (Graduate Level)
- 2012 Spring, Cornell – Advanced Human-Computer Interaction Design

Co-Instructor

- 2014 Spring, Cornell – Special Topics in Transformative Design Seminar (Graduate Level)

2013 Spring, Cornell – Special Topics in Games and Personal Informatics Seminar (Graduate Level)
2012 Fall, Cornell – Special Topics in Transformative Design Seminar (Graduate Level)
2011 Spring, Cornell – Advanced Human-Computer Interaction
2011 Spring, Cornell – Special Topics in Mobile Social Networks Seminar

Teaching Assistant

2007 Fall – 2008 Spring, UC Irvine – Video Games as Art, Culture, and Technology
2007 Spring, UC Irvine – Project in Social Implications of Computing
2007 Winter, UC Irvine – Informatics Core II
2003 Summer, UCF – Burnett Honors College Summer Institute, University of Central Florida
2002 Summer, UCF – Burnett Honors College Summer Institute, University of Central Florida

Mentoring and Advising

PhD Students

Amin Hosseiny Marani, Fall 2018 – current
Patrick Skeba, Fall 2017 – current

PhD Student Collaborators (not as primary advisor or committee member)

Shion Guha, Fall 2014 – Spring 2016
Vera Khovanskaya, Fall 2013 – Summer 2015
Phil Adams, Fall 2012 – Spring 2015
Mary Beth Deline, Summer 2011 – Spring 2012

Masters Students

Zheng Yao, Fall 2015 – Spring 2016
Xiaotong Xu, Fall 2015 – Spring 2016
Yihui Fu, Summer 2015 – Winter 2016
Emily Quan, Fall 2014 – Spring 2015
Ying “Crystal” Qin, Fall 2013 – Spring 2014
Mitchell Davis, Spring 2012 – Spring 2013
Alistair Ballantine, Fall 2011 – Spring 2012
Kamran Munshi, Spring 2011

Undergraduates

Danielle Gyory, Summer 2018 – current
NSF Research Opportunities for Undergraduates (REU) Recipient, Summer 2018
Jiayun Zhong, Spring 2018 – current
Rachel McCoog, Spring 2018 – current
Michael Crabtree, Spring 2018 – current
Joshua Levine, Summer 2018
NSF Research Opportunities for Undergraduates (REU) Recipient, Summer 2018
Timothy Berrill, Spring 2017 – Summer 2018
Lena McDonnell, Fall 2017 – Spring 2018
Drew Siedel, Fall 2017 – Spring 2018
Will Hassell, Fall 2017 – Spring 2018
Julianne Koch, Spring 2017 – Spring 2018
Athicha Srivirote, Summer 2017 – Fall 2017
Yin Luo, Summer 2017
Hannah Lambert, Summer 2017
Rui Sun, Spring 2017 – Fall 2017
Alex Van Heest, Spring 2017 – Fall 2017
Peter Schaedler, Spring 2017 – Summer 2017

Arielle Tannin, Fall 2016
Jatin Bharwani, Summer 2016 – Fall 2016
Shangyuan “Steven” Niu, Summer 2016 – Fall 2016
Lylla Younes, Spring 2016
Christine Chu, Fall 2015 – Spring 2016
Justin Park, Fall 2015 – Spring 2016
Neha Deshmukh, Summer 2015 – Fall 2015
Jung-Ho Sohn, Spring 2014 – Spring 2015
 Information Science Excellence in Undergraduate Research Award, 2015
 NSF Research Opportunities for Undergraduates (REU) Recipient, Summer 2014
Eric Morris, Fall 2014
Elisha Elovic, Summer 2014 – Fall 2014
 NSF Research Opportunities for Undergraduates (REU) Recipient, Summer 2014
Andrea Lin, Spring 2014 – Fall 2014
Rachel Yen, Spring 2014
Rannie Zhang, Spring 2014
Ho Kei “Crystal” Ngai, Spring 2013 – Fall 2013
Vera Khovanskaya, Fall 2010 – Spring 2013
 Computing Research Association Outstanding Undergraduate Researcher Award, 2013
 Cornell Presidential Fellow, 2011-2012
Claire Cipriani, Spring 2012 – Spring 2013
Jinjoo Lee, Summer 2012 – Spring 2013
 NSF Research Opportunities for Undergraduates (REU) Recipient, Summer 2012
Gary He, Summer 2012 – Fall 2012
 NSF Research Opportunities for Undergraduates (REU) Recipient, Summer 2012
James Kang, Summer 2012 – Fall 2012
Jaclyn Jeffrey-Wilensky, Summer 2012 – Fall 2012
Justin Zupnick, Summer 2012
Annie Bai, Fall 2011 – Spring 2012
 Honors Thesis, 2012
Brendan Viscomi, Spring 2011 – Spring 2012
Kevin Fiero, Fall 2011 – Spring 2012
Declan Boyd, Summer 2011 – Fall 2011
Karen Rosenblatt, Spring 2011 – Fall 2011
Christopher Pestano, Fall 2009 – Summer 2010
 UC Irvine Undergraduate Research Opportunities Program (UROP) Fellow, 2010
Allison Leis, Fall 2009 – Summer 2010
James Paul White, Fall 2009 – Spring 2010
 UC Irvine Undergraduate Research Opportunities Program (UROP) Fellow, 2010
Jordan Sinclair, Spring 2008 – Winter 2009
 UC Irvine Summer Undergraduate Research Funding in Information Technologies (SURF-IT) Fellow, 2008
David Hubin, Winter 2008 – Spring 2008
 Honors Thesis, 2008
Rodrigo Lois, Fall 2007 – Winter 2008
Mark Sueyoshi, Spring 2007 – Spring 2009
 Summer Undergraduate Research Funding in Information Technologies (SURF-IT) Fellow, 2007

SERVICE

Editor and/or Chair

- ACM International Conference on Supporting Group Work (GROUP), co-Chair for Design Fiction Track, 2016, 2020
- ACM Conference on Designing Interactive Systems (DIS), Subcommittee co-Chair for Application Domains, 2018
- First Monday, Guest co-Editor for Special Issue on Non-use of Technology: Perspectives and Approaches, 2015

Program Committee Member

- ACM Conference on Designing Interactive Systems (DIS), Change through Design Subcommittee: 2019
- ACM Conference on Human Factors in Computing (CHI), Interaction Beyond the Individual Subcommittee: 2019
- ACM Conference on Computer Supported Cooperative Work (CSCW): 2018
- Conference for the Consortium of Information Schools (iConference): 2016
- ACM Conference on Human Factors in Computing (CHI), alt.CHI Jury Member: 2015, 2016
- ACM Conference on Human Factors in Computing (CHI), Workshops: 2015
- INTERACT Conference: 2013
- ICT for Sustainability Conference: 2013

Reviewer

- ACM Transactions on Human-Computer Interaction (ToCHI): 2006, 2007, 2012, 2017, 2018
- ACM Conference on Human Factors in Computing (CHI): 2007, 2009-2018
- New Media & Society: 2008-2012, 2015-2016, 2018
- ACM Conference on Computer-Supported Cooperative Work (CSCW): 2008, 2011-2013, 2015-2017
- ACM Conference on Designing Interactive Systems (DIS): 2012, 2014, 2017
- Conference for the Consortium of Information Schools (iConference): 2012, 2015, 2017
- ACM Conference on Computer-Supported Cooperative Work (CSCW), Posters: 2017
- PLoS ONE: 2016
- IEEE Pervasive Computing, Special Issue on Domestic Pervasive: 2015
- Mind, Culture, and Activity: 2015
- ACM Conference on Tangible and Embodied Interaction (TEI): 2015
- ACM alt.chi: 2007, 2008, 2010, 2014
- Journal of Computer Mediated Communication, Special Issue on The Hyperlinked Society: 2011
- Journal of Information Technology and Politics: 2011
- Social Epistemology: 2010
- ACM Conference on Human Factors in Computing, alt.chi: 2007-2008, 2010
- ACM Conference on Creativity & Cognition, Posters: 2009
- IEEE Symposium on Social Computing (SocialCom): 2009
- National Association of Research in Science Teaching Conference (NARST): 2009
- HICSS Advanced Teaching and Learning Technologies Minitrack: 2009
- The Information Society Journal: 2006
- International Journal of Continuing Engineering Education and Life Long Learning Special Issue on Narrative and Interactive Learning Environments: 2006

Grant Reviewer

- NSF Grant Review Panelist: 2012, 2017
- Canadian Social Science and Humanities Research Council (SSHRC) External Reviewer: 2013

Department Service, Computer Science & Engineering, Lehigh University

Co-Director of Graduate Studies: 2018-2019

CSE Chair Search Committee: 2018-2019

Publicity and Web Committee: 2017-2018

Graduate Admissions Committee: 2017-2019

College Service, Rossin College of Engineering and Applied Sciences, Lehigh University

First-Year Advising: 2017-2019

University Service, Lehigh University

Ethics Center Steering Committee: 2018-2020

University Service, Cornell

Board Member, Cornell University Center for the Integration of Research, Teaching, and Learning (CU-CIRTL): 2012

University Service, UC Irvine

Informatics Graduate Student Association, Treasurer: 2008-2009

Associated Graduate Students (AGS), Council Member: 2007-2009

AGS Student Representative to Council on Research, Computing, and Libraries: 2008-2009

Student Volunteer

AAAI Annual Meeting: 2005

MEMBERSHIPS

Association for Computing Machinery (ACM) – 2007-present

American Association for Artificial Intelligence (AAAI) – 2005-2009

Institute of Electrical and Electronics Engineers (IEEE) – 2005-2009

International Society for the Learning Sciences (ISLS) – 2007-2008