

# ERIC P. S. BAUMER

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## 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

- University of Toronto, Faculty of Information  
Associate Professor, 2025-current
- Lehigh University, Computer Science & Engineering Department  
Associate Professor, 2021-2025  
Assistant Professor, 2017-2021
- 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 Articles

- J34. **Baumer, E.P.S.**, Taylor, A.S., Brubaker, J.R., and McGee, M. (2024). Algorithmic Subjectivities. *ACM Transactions on Human-Computer Interaction (ToCHI)* 31, 3, 1-34.

- J33. Elmimouni, H., **Baumer, E.P.S.**, and Forte, A. (2024). On Being an Expert: Habitus as a Lens for Understanding Privacy Expertise. *Proceedings of the ACM on Human-Computer Interaction (PACM:HCI)*, CSCW1 (April 2024), 102:1-102:25.
- J32. Hosseiny Marani, A. and **Baumer, E.P.S.** (2023). A Review of Stability in Topic Modeling: Metrics for Assessing and Techniques for Improving Stability. *ACM Computing Surveys*.
- J31. Mickel, A., Heidebrink-Bruno, A., Hosseiny Marani, A., Barone, I., Lee, O., and **Baumer, E.P.S.** (2023). The Cultural Production of Everyday Ethics in Two University STEM Labs. *Bulletin of Science, Technology & Society* 43, 1–2 (June 2023), 3–17.
- J30. Aghajari, Z., **Baumer, E.P.S.**, and DiFranzo, D. (2023). Reviewing Interventions to Address Misinformation: The Need to Expand Our Vision Beyond an Individualistic Focus. *Proceedings of the ACM on Human-Computer Interaction (PACM:HCI)*.
- J29. Aghajari, Z., **Baumer, E.P.S.**, Hohenstein, J.C., Jung, M.F., and DiFranzo, D. (2023). Methodological Middle Spaces: Addressing the Need for Methodological Innovation to Achieve Simultaneous Realism, Control, and Scalability in Experimental Studies of AI-Mediated Communication. *Proceedings of the ACM on Human-Computer Interaction (PACM:HCI)*.
- J28. **Baumer, E.P.S.**, Jasim, M., Sarvghad, A., and Mahyar, N. (2022). Of Course It’s Political! A Critical Inquiry into Underemphasized Dimensions in Civic Text Visualization. *Computer Graphics Forum (Issue for Eurographics Conference on Visualization: EuroVis)*. [25% acceptance rate – **Best Paper Award**]
- J27. Jia, H. and **Baumer, E.P.S.** (2022). Birds of a feather: Collective privacy of online social activist groups. *Computers & Security* 115: 102614.
- J26. Showkat, D. and **Baumer, E.P.S.** (2021). Where Do Stories Come From? Examining the Exploration Process in Investigative Data Journalism. *Proceedings of the ACM on Human-Computer Interaction* 5, CSCW2, 390:1-390:31.
- J25. Taylor, L., Belan, K., De Choudhury, M., and **Baumer, E.P.S.** (2021). Misfires, Missed Data, Misaligned Treatment: Disconnects in Collaborative Treatment of Eating Disorders. *Proceedings of the ACM on Human-Computer Interaction*, CSCW.
- J24. Skeba, P., Saxena, D., Guha, S., and **Baumer, E.P.S.** (2021). Who Has a Choice?: Survey-Based Predictors of Volitionality in Facebook Use and Non-use. *Proceedings of the ACM Human-Computer Interaction*, GROUP.
- J23. Skeba, P. and **Baumer, E.P.S.** (2020). Informational Friction as a Lens for Studying Algorithmic Aspects of Privacy. *Proceedings of the ACM on Human-Computer Interaction* 3, CSCW.
- J22. Saxena, D., Skeba, P., Guha, S., and **Baumer, E.P.S.** (2020). Methods for Generating Typologies of Non/use. *Proceedings of the ACM on Human-Computer Interaction* 3, CSCW.
- J21. **Baumer, E.P.S.**, Siedel, D., McDonnell, L., Zhong, J., Sittikul, P., and McGee, M. (2020). Topicalizer: Reframing Core Concepts in Machine Learning Visualization by Co-designing for Interpretivist Scholarship. *Human-Computer Interaction, Special Issue on Unifying Human Computer Interaction and Artificial Intelligence* 35(5-6): 452-480.

- J20. Chancellor, S., **Baumer, E.P.S.**, and De Choudhury, M. (2019). Who is the “Human” in Human-Centered Machine Learning: The Case of Predicting Mental Health from Social Media. *Proceedings of the ACM on Human-Computer Interaction 2*, CSCW. [31.2% acceptance rate – **Honorable Mention Award**, given to top 5% of papers]
- J19. **Baumer, E.P.S.**, Skeba, P., Guha, S., and Gay, G. (2019). All Users are (Not) Created Equal: Predictors Vary for Different Forms of Facebook Non/use. *Proceedings of the ACM on Human-Computer Interaction 2*, CSCW. [31.2% acceptance rate]
- 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). Missing Photos, Suffering Withdrawal, or Finding Freedom? How Experiences of Social Media Non-Use Influence the Likelihood of Reversion. *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

- C48. **Baumer, E.P.S.** and Khovanskaya, V. (2025). Sociotechnical Remantling. in *Proceedings of the Decennial Aarhus Conference: Computing X Crisis (AAR)*. (Aarhus, Denmark). [27.1% acceptance rate]
- C47. Shusas, E., Sannon, S., Teitelbaum, K., Skeba, P., **Baumer, E.P.S.**, and Forte, A. (2025). Examining privacy concerns and conversations before, during, and after the onset of the COVID-19 pandemic: an analysis of r/privacy. in *Information Research: An international electronic journal*, iConference Issue, (March 2025), 770–788. DOI: 10.47989/ir30iConf47200
- C46. Aghajari, Z., **Baumer, E.P.S.**, Lazard, A., Dasgupta, N., and DiFranzo, D. (2024). Investigating the Mechanisms by which Prevalent Online Community Behaviors Influence Responses to Misinformation: Do Perceived Norms Really Act as a Mediator? in *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)*. (Honolulu, HI). [26.4% acceptance rate]
- C45. Aghajari, Z., **Baumer, E.P.S.**, and DiFranzo, D. (2023). What's the Norm Around Here? Individuals' Responses Can Mitigate the Effects of Misinformation Prevalence in Shaping Perceptions of a Community. in *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)*. (Hamburg, Germany). [28.4% acceptance rate]
- C44. Shusas, E., Skeba, P., **Baumer, E.P.S.**, and Forte, A. (2023). Accounting for Privacy Pluralism: Lessons and Strategies from Community-Based Privacy Groups. in *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)*. (Hamburg, Germany). [28.4% acceptance rate]

- C43. El Mimouni, H., Shusas, E., Skeba, P., **Baumer, E.P.S.**, and Forte, A. (2023). What Makes a Technology Privacy Enhancing? Laypersons' and Experts' Descriptions, Uses, and Perceptions of Privacy Enhancing Technologies. in *Proceedings of the iConference*. (Barcelona). [35% acceptance rate]
- C42. Hosseiny Marani, A., Levine, J., and **Baumer, E.P.S.** (2022). One Rating to Rule Them All? Evidence of Multidimensionality in Human Assessment of Topic Labeling Quality. in *Proceedings of the ACM International Conference on Information & Knowledge Management (CIKM)*. (Atlanta, GA).
- C41. Showkat, D. and **Baumer, E.P.S.** (2022). “It’s Like the Value System in the Loop”: Domain Experts’ Values Expectations for NLP Automation. in *Proceedings of the ACM Conference on Designing Interactive Systems (DIS)*. (Online). [21.5% acceptance rate]
- C40. Devakumar, A., Modh, J., Saket, B., **Baumer, E.P.S.**, and De Choudhury, M. (2021). A Review on Strategies for Data Collection, Reflection, and Communication in Eating Disorder Apps. in *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)*. (Yokohama, Japan). [26.3% acceptance rate]
- C39. **Baumer, E.P.S.**, Blythe, M., and Tanenbaum, T.J. (2020). Evaluating Design Fiction: The Right Tool for the Job. in *ACM Conference on Designing Interactive Systems (DIS)*. (Eindhoven, the Netherlands). [24.0% acceptance rate – **Honorable Mention Award**, given to top 5% of papers]
- C38. Feltwell, T., Wood, G., Brooker, P., Rowland, S., **Baumer, E.P.S.**, Long, K., Vines, J., Barnett, J., Lawson, S. (2020). Challenging Selective Exposure to Socio-Political Opinions via a Pushy Smart Home Device. in *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)*. (Honolulu, HI). [24.3% acceptance rate]
- C37. **Baumer, E.P.S.** and McGee, M. (2019). Speaking on Behalf of: Representation, Authority, and Delegation in Computational Text Analysis. in *Proceedings of the AAAI/ACM Conference on Artificial Intelligence, Ethics, and Society (AIES)*. (Honolulu, HI). [31.8% acceptance rate]
- 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). Uses. 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., Volda, 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 & Social Computing (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 & Social Computing (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

- M3. **Baumer, E.P.S.** (2022). Escaping a planet in peril: review of A House between Earth and the Moon (Rebecca Scherm). *Science* 375(6587), 1360-1360.
- 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

- W27. **Baumer, E.P.S.** (2023). Scoping the Object of Reflection. in *Integrating Individual and Social Contexts into Self-Reflection Technologies*, workshop at *ACM Conference on Human Factors in Computing Systems (CHI)*, (Hamburg, Germany).
- W26. Showkat, D. and **Baumer, E.P.S.** (2020). Outliers: More Than Numbers? in *Interrogating Data Science*, workshop at *ACM Conference on Computer-Supported Cooperative Work & Social Computing (CSCW)*, (held virtually).
- W25. El Mimouni, H., Racine, E., Skeba, P., **Baumer, E.P.S.**, and Forte, A. (2020). What are PETs for Privacy Experts and Non-experts? *Poster at Usenix Symposium on Usable Privacy and Security (SOUPS)*.
- W24. **Baumer, E.P.S.** and Hosseiny Marani, A. (2020). Bias as a Distinct Factor in Human Ratings of Machine Labeling. in *Human-Centered Approach to Fair & Responsible AI at ACM Conference on Human Factors in Computing Systems (CHI)*, (Honolulu, HI).
- W23. **Baumer, E.P.S.** (2019). Giving Voice in Computational Text Analysis. in *Design and the Politics of Collaboration: A Grassroots Perspective at ACM Conference on Computer-Supported Cooperative Work & Social Computing (CSCW)*, (Austin, TX).
- 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 & Social Computing (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 & Social Computing (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 5<sup>th</sup> 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., Echtler, 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

- TR3. Eslami, M., Gilbert, E., Schoenebeck, S., **Baumer, E.P.S.**, Chandrasekharan, E., De Mooy, M., Karahalios, K., Karger, D., Cottom, T.M., Monroy-Hernández, A., Terveen, L., & Whibbey, J. (2024). (rep.). *The Future of Research on Social Technologies CCC Workshop Visioning Report*. Computing Community Consortium. [[link](#)]
- 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

- O6. Muller, M., Bardzell, J., Cheon, E.J., Su, N.M., **Baumer, E.P.S.**, Fiesler, C., Light, A., and Blythe, M. (2020). Understanding the Past, Present, and Future of Design Fictions. *Workshop at ACM Conference on Human Factors in Computing Systems (CHI)*. (held virtually).
- O5. Inkpen, K., Chancellor, S. De Choudhury, M., Veale, M., and **Baumer, E.P.S.** (2019). Where is the Human? Bridging the Gap Between AI and HCI. *Workshop at ACM Conference on Human Factors in Computing Systems (CHI)*. (Glasgow, UK).
- O4. Soden, R., Skirpan, M., Fiesler, C., Ashktorab, Z., **Baumer, E.P.S.**, Blythe, M., and Jones, J. (2019). CHI4EVIL: Creative Speculation On the Negative Impacts of HCI Research. *Workshop at ACM Conference on Human Factors in Computing Systems (CHI)*. (Glasgow, UK).
- 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

- PD8. Zytko, D., Wisniewski, P., Guha, S., **Baumer, E.P.S.**, and Lee, M.K. (2022). Participatory Design of AI Systems: Opportunities and Challenges Across Diverse Users, Relationships, and Application Domains. *Panel at ACM Conference on Human Factors in Computing Systems (CHI)*. (New Orleans, LA / Hybrid).
- PD7. **Baumer, E.P.S.**, Goodman, E.P., Skeba, P., Zalmanson, L., Zhang, A., and Elkin-Koren, N. (2021). Friction. *Invited Panelist, Third Obfuscation Workshop*. May 7, 2021.
- PD6. **Baumer, E.P.S.**, Raskin, R., Vasquez, T., Waid, B., and Lopresti, D. (2020). AI: Ethics, Impact, and Evolution. *Invited Panelist, Lehigh Women in Business (WiB) Technology and Innovation Conference*. February 29, 2020.
- 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

- S25. Baumer, E.P.S. (2022). Algorithmic Harms: Investigating Varieties and Considering Alternatives. *Invited Speaker, FATE (Fairness, Accountability, Transparency and Ethics) Seminar*, Microsoft Research. October 11, 2022.
- S24. Baumer, E.P.S. (2021). When the Implication is Not to Design, What Do You Do? *Invited Guest Lecture, Advanced User Research and Design Methods*, Cornell University. April 19, 2021.
- S23. Baumer, E.P.S. (2021). "But What Does it Mean?" Foregrounding Interpretation in Algorithmic Text Analysis. *Research Seminar Series*. Computer Science & Engineering Department, Lehigh University. April 8, 2021.
- S22. Baumer, E.P.S. (2021). "But What Does it Mean?" Foregrounding Interpretation in Algorithmic Text Analysis. *Invited Speaker, HCI Seminar Series*. College of Information Sciences and Technology (IST), Penn State University. March 29, 2021.
- S21. Baumer, E.P.S. (2020). "But What Does it Mean?" Foregrounding Interpretation in Algorithmic Text Analysis. *Invited Speaker, Cognitive Science Seminar Speaker*. Lehigh University. March 6, 2020.
- S20. Baumer, E.P.S. (2019). "But What Does it Mean?" Foregrounding Interpretation in Algorithmic Text Analysis. *Invited Speaker, School of Information Studies Brown Bag Seminar Series*. Syracuse University. October 31, 2019.

- S19. Baumer, E.P.S. and Whitley, E. (2019). Diaries as Data: Visualizing Topics in the Gunn Diaries. *Invited Talk, Friends of the Libraries*. Lehigh University. October 21, 2019.
- 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, 8<sup>th</sup> 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, 7<sup>th</sup> 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

- G13. NSF Human-Centered Computing (HCC) Rapid Response Research (RAPID), \$131,176, “Understanding Imagined Futures around Generative AI Use in Higher Education,” **Eric P. S. Baumer** (PI), Dominic DiFranzo (co-PI). 2024-current.
- G12. NSF Human-Centered Computing (HCC), \$1,198,956, “Making Meaning out of Crisis: Mixed-Methods Investigation into the Nature and Impact of Framing,” **Eric P. S. Baumer** (PI), Haiyan Jia (co-PI), Dominic DiFranzo (co-PI), Amanda K. Greene (postdoc proposal contributor), 2022-current.
- G11. Lehigh Humanities Lab, \$28,200, “An Interdisciplinary Approach to Understanding Cultures of Ethics in STEM,” Allison Mickel (co-PI), **Eric P. S. Baumer** (co-PI), 2020.
- G10. NSF Faculty Early Career Development Program (CAREER), \$549,861, “Participatory Design Methods for Algorithmic Systems,” **Eric P. S. Baumer** (PI), 2019-2025. REU Supplements totaling \$10,800.
- G9. NSF Cyber-Human Systems (CHS), \$209,375, “Tools for Mental Health Reflection: Integrating Social Media with Human-Centered Machine Learning,” Munmun De Choudhury (PI), **Eric P. S. Baumer** (co-PI), 2018-2024. REU Supplements totaling \$4,500.
- 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), 2018-2023. REU Supplements totaling \$6,000.
- G7. Lehigh Mountaintop Experience, \$20,850, “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

- Frank Hook Assistant Professorship for Student Mentorship, 2019-2021  
 Joel & Ruth Spira Excellence in Teaching Award, 2018  
 Best Paper Award  
   EuroVis 2022  
 Honorable Mention Paper Awards (top 5% of submissions)  
   ACM DIS Conference 2020  
   ACM CSCW Conference 2019  
   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

- 2024 Spring, Lehigh – Computers, the Internet, and Society  
 2023 Fall, Lehigh – Ethics in Data Science  
 2023 Fall, Lehigh – Computers, the Internet, and Society  
 2023 Spring, Lehigh – Methods for Understanding HCI  
 2022 Fall, Lehigh – Ethics in Data Science  
 2022 Spring, Lehigh – Methods for Understanding HCI  
 2021 Fall, Lehigh – Computers, the Internet, and Society (2 sections)  
 2021 Spring, Lehigh – Computers, the Internet, and Society  
 2020 Fall, Lehigh – User Interface Systems and Techniques

2020 Spring, Fall, Lehigh – Computers, the Internet, and Society  
 2019 Spring, Lehigh – Computers, the Internet, and Society  
 2018 Fall, Lehigh – Social Computing  
 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

##### Postdoctoral Associates

Rosemary Steup, Fall 2023 – current

##### PhD Students

Chioma Chigozie-Okwum (Lehigh University), Fall 2022 – current  
 Zhila Aghajari (Lehigh University) (co-advised with Dominic DiFranzo until Fall 2022),  
 Summer 2021 – Spring 2025  
 Dissertation: *Adopting an Ecological Approach to Misinformation: Understanding the Broader Impacts of Misinformation on Online Communities, Including its Effects on Norm Perceptions and Processes of Meaning Construction*  
 Amin Hosseiny Marani (Lehigh University), Fall 2018 – Spring 2025  
 Dissertation: *What Are Topic Modeling Metrics Measuring? A Comparison of Topic Modeling Metrics and Human Assessment Approaches*  
 Bahare Riahi (Lehigh University), Summer 2022 – Summer 2023  
 Dilruba Showkat (Lehigh University), Fall 2019 – Fall 2020  
 Patrick Skeba (Lehigh University), Fall 2017 – Fall 2022  
 Dissertation: *Examining the Privacy Risks in Systems of Data Collection and Inference Using the Concept of Informational Friction*

##### PhD Committees

Erica Racine Shusas (Drexel University), Summer 2024 – current  
 Kai Lukoff (University of Washington), Summer 2018 – Summer 2022  
 Noah Reifsnnyder (Lehigh University), Summer 2020 – Spring 2022  
 Houda El Mimouni (Drexel University), Summer 2020 – Spring 2021  
 Sindhu Ernala (Georgia Institute of Technology), Fall 2019 – Summer 2021

Sicong Kuang (Lehigh University), Summer 2019 – Spring 2020

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

Shion Guha (Cornell University), Fall 2014 – Spring 2016

Vera Khovanskaya (Cornell University), Fall 2013 – Summer 2015

Phil Adams (Cornell University), Fall 2012 – Spring 2015

Mary Beth Deline (Cornell University), Summer 2011 – Spring 2012

Masters Students

Marc Soda (Lehigh University), Spring 2023

Chase Mattingly (Lehigh University), Summer 2022 – Spring 2023

Charles Inwald (Lehigh University), Fall 2020

Zach Vinik (Lehigh University), Summer 2020 – Fall 2020

Zheng Yao (Cornell University), Fall 2015 – Spring 2016

Xiaotong Xu (Cornell University), Fall 2015 – Spring 2016

Yihui Fu (Cornell University), Summer 2015 – Winter 2016

Emily Quan (Cornell University), Fall 2014 – Spring 2015

Ying “Crystal” Qin (Cornell University), Fall 2013 – Spring 2014

Mitchell Davis (Cornell University), Spring 2012 – Spring 2013

Alistair Ballantine (Cornell University), Fall 2011 – Spring 2012

Kamran Munshi (Cornell University), Spring 2011

Undergraduates

Akanksha Gavade (Lehigh University), Summer 2023 – current

Lillian Mauger (Lehigh University), Spring 2023 – current

NSF Research Opportunities for Undergraduates (REU) Recipient, Summer 2023

Sneha Vivek (Lehigh University), Summer 2022

NSF Research Opportunities for Undergraduates (REU) Recipient, Summer 2022

Duncan Shober-Fernback (Lehigh University), Spring 2022 – Spring 2023

NSF Research Opportunities for Undergraduates (REU) Recipient, Summer 2022

Andrew Viera (Lehigh University), Spring 2022 – Fall 2022

NSF Research Opportunities for Undergraduates (REU) Recipient, Summer 2022

Coco Chen (Lehigh University), Spring 2022 – Fall 2022

Arthur Lewis (Lehigh University), Spring 2022 – Fall 2022

Marc Soda (Lehigh University), Fall 2021 – Fall 2022

Michalina Modzelewska (Lehigh University), Spring 2022

Udita Agrawal (Lehigh University), Spring 2022

Falyn Goldstein (Lehigh University), Spring 2021 – Spring 2022

Cognitive Science Honors Thesis, Spring 2022

Buckley Ross (Lehigh University), Spring 2021 – Spring 2022

Nick Owens (Lehigh University), Spring 2021 – Spring 2022

Chase Mattingly (Lehigh University), Spring 2021 – Spring 2022

Jenna Simon (Lehigh University), Spring 2021 – Fall 2021

Hannah Leland (Lehigh University), Spring 2021 – Fall 2021

Tori Dorn (Lehigh University), Spring 2021 – Fall 2021

Anmol Shrestha (Lehigh University), Spring 2020 – Spring 2021

Sam Joffe (Lehigh University), Spring 2020 – Fall 2020

NSF Research Opportunities for Undergraduates (REU) Recipient, Summer 2020

Adam Debus (Lehigh University), Spring 2020 – Fall 2020

Darrell “DJ” Edwards (Lehigh University), Spring 2020 – Fall 2020

NSF Research Opportunities for Undergraduates (REU) Recipient, Summer 2020  
Lauren Taylor (Lehigh University), Summer 2019 – Spring 2020

NSF Research Opportunities for Undergraduates (REU) Recipient, Summer 2019  
Emily Passalaqua (Lehigh University), Spring 2019 – Spring 2020

NSF Research Opportunities for Undergraduates (REU) Recipient, Summer 2019  
Cognitive Science Honors Thesis, Spring 2020  
Andy Malinsky (Lehigh University), Summer 2019

NSF Research Opportunities for Undergraduates (REU) Recipient, Summer 2019  
Erica Gregg (Lehigh University), Summer 2019

NSF Research Opportunities for Undergraduates (REU) Recipient, Summer 2019  
Nathan Tokala (Lehigh University), Spring 2019 – Fall 2019  
Tika Kuikel (Lehigh University), Spring 2019 – Fall 2019  
Meredith “Cesar” Hoo (Lehigh University), Spring 2019 – Fall 2019  
Ken Grenestedt (Lehigh University), Spring 2019 – Fall 2019  
Patricia Sittikul (Lehigh University), Spring 2019 – Fall 2019

NSF Research Opportunities for Undergraduates (REU) Recipient, Summer 2019  
Jiayun Zhong (Lehigh University), Spring 2018 – Fall 2019  
Joanna Rompallo (Lehigh University), Fall 2018 – Spring 2019  
Danielle Gyory (Lehigh University), Summer 2018 – Spring 2019

NSF Research Opportunities for Undergraduates (REU) Recipient, Summer 2018  
Rachel McCoog (Lehigh University), Spring 2018 – Fall 2018  
Michael Crabtree (Lehigh University), Spring 2018  
Joshua Levine (Lehigh University), Summer 2018

NSF Research Opportunities for Undergraduates (REU) Recipient, Summer 2018  
Timothy Berrill (Lehigh University), Spring 2017 – Summer 2018  
Lena McDonnell (Lehigh University), Fall 2017 – Spring 2018  
Drew Siedel (Lehigh University), Fall 2017 – Spring 2018  
Will Hassell (Lehigh University), Fall 2017 – Spring 2018  
Julianne Koch (Lehigh University), Spring 2017 – Spring 2018  
Athicha Srivirote (Lehigh University), Summer 2017 – Fall 2017  
Yin Luo (Lehigh University), Summer 2017  
Hannah Lambert (Lehigh University), Summer 2017  
Rui Sun (Lehigh University), Spring 2017 – Fall 2017  
Alex Van Heest (Lehigh University), Spring 2017 – Fall 2017  
Peter Schaedler (Lehigh University), Spring 2017 – Summer 2017  
Arielle Tannin (Cornell University), Fall 2016  
Jatin Bharwani (Cornell University), Summer 2016 – Fall 2016  
Shangyuan “Steven” Niu (Cornell University), Summer 2016 – Fall 2016  
Lylla Younes (Cornell University), Spring 2016  
Christine Chu (Cornell University), Fall 2015 – Spring 2016  
Justin Park (Cornell University), Fall 2015 – Spring 2016  
Neha Deshmukh (Cornell University), Summer 2015 – Fall 2015  
Jung-Ho Sohn (Cornell University), Spring 2014 – Spring 2015

Information Science Excellence in Undergraduate Research Award, 2015

NSF Research Opportunities for Undergraduates (REU) Recipient, Summer 2014  
Eric Morris (Cornell University), Fall 2014  
Elisha Elovic (Cornell University), Summer 2014 – Fall 2014

NSF Research Opportunities for Undergraduates (REU) Recipient, Summer 2014

Andrea Lin (Cornell University), Spring 2014 – Fall 2014  
 Rachel Yen (Cornell University), Spring 2014  
 Rannie Zhang (Cornell University), Spring 2014  
 Ho Kei “Crystal” Ngai (Cornell University), Spring 2013 – Fall 2013  
 Vera Khovanskaya (Cornell University), Fall 2010 – Spring 2013  
     Computing Research Association Outstanding Undergraduate Researcher Award, 2013  
     Cornell Presidential Fellow, 2011-2012  
 Claire Cipriani (Cornell University), Spring 2012 – Spring 2013  
 Jinjoo Lee (Cornell University), Summer 2012 – Spring 2013  
     NSF Research Opportunities for Undergraduates (REU) Recipient, Summer 2012  
 Gary He (Cornell University), Summer 2012 – Fall 2012  
     NSF Research Opportunities for Undergraduates (REU) Recipient, Summer 2012  
 James Kang (Cornell University), Summer 2012 – Fall 2012  
 Jaelyn Jeffrey-Wilensky (Cornell University), Summer 2012 – Fall 2012  
 Justin Zupnick (Cornell University), Summer 2012  
 Annie Bai (Cornell University), Fall 2011 – Spring 2012  
     Honors Thesis, 2012  
 Brendan Viscomi (Cornell University), Spring 2011 – Spring 2012  
 Kevin Fiero (Cornell University), Fall 2011 – Spring 2012  
 Declan Boyd (Cornell University), Summer 2011 – Fall 2011  
 Karen Rosenblatt (Cornell University), Spring 2011 – Fall 2011  
 Christopher Pestano (University of California, Irvine), Fall 2009 – Summer 2010  
     UC Irvine Undergraduate Research Opportunities Program (UROP) Fellow, 2010  
 Allison Leis (University of California, Irvine), Fall 2009 – Summer 2010  
 James Paul White (University of California, Irvine), Fall 2009 – Spring 2010  
     UC Irvine Undergraduate Research Opportunities Program (UROP) Fellow, 2010  
 Jordan Sinclair (University of California, Irvine), Spring 2008 – Winter 2009  
     UC Irvine Summer Undergraduate Research Funding in Information Technologies  
     (SURF-IT) Fellow, 2008  
 David Hubin (University of California, Irvine), Winter 2008 – Spring 2008  
     Honors Thesis, 2008  
 Rodrigo Lois (University of California, Irvine), Fall 2007 – Winter 2008  
 Mark Sueyoshi (University of California, Irvine), Spring 2007 – Spring 2009  
     Summer Undergraduate Research Funding in Information Technologies (SURF-IT)  
     Fellow, 2007

## SERVICE

### Editor and/or Chair

ACM Conference on Designing Interactive Systems (DIS), Subcommittee co-Chair for Critical  
 Computing and Design Theory, 2018  
 ACM International Conference on Supporting Group Work (GROUP), Technical Papers co-  
 Chair, 2022/2023  
 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 Computer Supported Cooperative Work and Social Computing (CSCW): 2018, 2020, 2023, 2025-2026  
 ACM Conference on Human Factors in Computing (CHI): Interaction Beyond the Individual Subcommittee 2019; Specific Application Areas Subcommittee 2020; Critical Computing, Sustainability, and Social Justice Subcommittee 2023  
 Doctoral Consortium Panelist, ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW): 2022  
 ACM Conference on Fairness, Accountability, and Transparency (FAccT), 2022  
 ACM Conference on Designing Interactive Systems (DIS), 2019, 2022  
 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**

Ethics Reviewer for International Conference on Machine Learning (ICML): 2025  
 ACM Conference on Human Factors in Computing (CHI): 2007, 2009-2018, 2021-2024  
 ACM Transactions on Social Computing: 2023-2024  
 ACM Transactions on Human-Computer Interaction (ToCHI): 2006, 2007, 2012, 2017-2018, 2022-2023  
 ACM Conference on Computer-Supported Cooperative Work (CSCW): 2008, 2011-2013, 2015-2017, 2019, 2021  
 ACM Conference on Designing Interactive Systems (DIS): 2012, 2014, 2017, 2020  
 New Media & Society: 2008-2012, 2015-2016, 2018-2019  
 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 (CISE, SBE), 2017 (SBE), 2019 (CISE), 2020 (CISE), 2021 (CISE, SBE), 2025 (SBE, BCS)  
 NSF Grant Ad Hoc Reviewer: 2021 (CISE, SBE), 2022 (SBE, BCS)  
 Canadian Social Science and Humanities Research Council (SSHRC) External Reviewer: 2013

**Department Service, Computer Science & Engineering, Lehigh University**

Chair, Faculty Search Committee: 2023-2024

Director, Ph.D. Program: 2019-2023

Faculty Search Committee: 2021-2023

Chair, Graduate Admissions: 2019-2020

Graduate Admissions Committee: 2017-2020

Co-Director of Graduate Studies: 2018-2019

CSE Department Chair Search Committee: 2018-2019

Publicity and Web Committee: 2017-2018

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

Rossin College Awards Committee: 2022-2023

Frank Hook Professorship Selection Committee: 2020

First-Year Advising: 2017-2019

**University Service, Lehigh University**

Faculty Search Committee; College of Health; Ethics, Big Data, and Health: 2022-2023

Center for Ethics Steering Committee: 2018-2023

**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