AUSTIN TOOMBS

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Education

May 2016 **Indiana University—Bloomington, IN**
Ph.D. Informatics, Human Computer Interaction Design
Minor: Inquiry Methodology
Dissertation: *Care and the Construction of Hacker Identities, Communities, and Society*
Co-chairs: Jeffrey Bardzell and Shaowen Bardzell

May 2012 **Indiana University—Bloomington, IN**
M.S. Human Computer Interaction Design

May 2010 **Ball State University—Muncie, IN**
B.S. Computer Science
Minor: Mathematics

Professional and Teaching Experience

2016—2017 **Research Associate, Newcastle University**
Postdoctoral researcher at Open Lab

2016 **Adjunct Faculty, Indiana University—Purdue University Indianapolis (IUPUI)**
INFO-H564 Prototyping for Interactive Systems

2015 **Lecturer, Indiana University**
INFO-I310 Multimedia Arts and Technology

2011—2015 **Graduate Research Assistant, Indiana University**
Developed physical prototypes and data visualizations. Conducted interviews, focus groups, and a long-term ethnography. Created, organized, and led design and research workshops. Analyzed and coded qualitative data.

2010—2013 **Associate Instructor, Indiana University**
INFO-I494 Informatics Capstone
INFO-I542 Foundations of HCI
INFO-I590 Advanced Prototyping. Developed curriculum and taught physical computing concepts using Arduino, Intel Perceptual Camera, and Lilypad.

Summer 2011 **Intern of Applied Research, LexisNexis**
Developed interactive and dynamic mockups for mobile versions of LexisNexis systems. Developed information visualization techniques to be used in analyzing user experience reports. Translated user experience reports into interaction design implications.

2010 **Teaching Assistant, Ball State University**
CS345 Human-Computer Interfaces

Summer 2009 **Research Assistant, Ball State University**
Developed a curriculum visualization software application for use in higher education.

Summer 2008 **Software Developer, Institute for Digital Entertainment and Education**
Developed commercial software for multi-media, interactive presentations and demonstrations.

Journal Publications

Toombs, A., Ferri, G., Grimme, S., Gross, S., Stallings, M. D., Bardzell, J., and Bardzell, S. 2016. Making a critical playshop. interactions 24, 1 (December 2016), 34-37. DOI: https://doi.org/10.1145/3019006

Toombs, A., Gross, S., Bardzell, S., Bardzell, J. (2016). From Empathy to Care: A Feminist Care Ethics Perspective on Long-Term Researcher-Subject Relations. *Interacting with Computers:* Special Issue "Ethics Matter(s)."

Toombs, A., Bardzell, S., and Bardzell, J. (2014). Becoming Makers: Hackerspace Member Habits, Values, and Identities. *Journal of Peer Production, 5*.

Gestwicki, P., Haddad, A., **Toombs, A.,** & Sun, F. (2009). An Experience Report and Analysis of Java Technologies in Undergraduate Game Programming Courses. *Journal of Computing Sciences in Colleges, 25*(1), 102-108.

Conference Proceedings

Peer Reviewed

Toombs, A., (2017). Hackerspace Tropes, Identities, and Community Values. In *DIS'17: Proceedings of the 2017 CHI Conference on Designing Interactive Systems*. (pp.1079-1091). New York, NY: ACM Press. [Awarded **Best Paper**, top 1%]

Gray, C. M., **Toombs, A. L.,** & McKay, C. (2016). Meaning Reconstruction as an Approach to Analyze Critical Dimensions of HCI Research. In *CHI EA '16: CHI'16 Extended Abstracts on Human Factors in Computing Systems* (pp. 328-340). New York, NY: ACM Press.

Gray, C. M., **Toombs, A.**, & Gross, S. (2015). Flow of Competency in UX Design Practice. In *CHI'15: Proceedings of the 2015 CHI Conference on Human Factors in Computing Systems.* New York, NY: ACM Press. [Received the SIGCHI **Best of CHI Honorable Mention Award**, top 5%]

Toombs, A., Bardzell, S., & Bardzell, J. (2015). The Proper Care and Feeding of Hackerspaces: Care Ethics and Cultures of Making. In *CHI'15: Proceedings of the 2015 CHI Conference on Human Factors in Computing Systems.* New York, NY: ACM Press. [Received the SIGCHI **Best of CHI Honorable Mention Award**, top 5%]

Bardzell, J., Bardzell, S., & **Toombs, A.** (2014). "Now that's definitely a proper hack": Self-made Tools in Hackerspaces. In *CHI'14: Proceedings of the 2014 CHI Conference on Human Factors in Computing Systems* (pp. 473-476). New York, NY: ACM Press. [Received the SIGCHI **Best of CHI Honorable Mention Award**, top 5%]

Pace, T., **Toombs, A.,** Gross, S., Pattin, T., Bardzell, J., & Bardzell, S. (2013). A tribute to Mad Skill: Expert Amateur Visuality and World of Warcraft Machinima. In *CHI'13: Proceedings of the 2013 CHI Conference on Human Factors in Computing Systems* (pp. 2019-2028). New York, NY: ACM Press.

Bardzell, S., Gross, S., Wain, J., **Toombs, A.,** & Bardzell, J. (2011). The Significant Screwdriver: Care, Domestic Masculinity, and Interaction Design. In *Proceedings of the 25th BCS Conference on Human-Computer Interaction* (pp. 371-377). Swinton, UK: British Computer Society.

Juried

Toombs, A. (2015). Enacting Care Through Collaboration in Communities of Makers. In *Proceedings of the 18th ACM Conference Companion on Computer Supported Cooperative Work & Social Computing* (CSCW'15 Companion, Doctoral Consortium paper) (pp. 81-84). New York, NY: ACM Press. doi:10.1145/2685553.2699326

Gross, S., **Toombs, A.,** Wain, J., & Walorski, K. (2011). Foodmunity: Designing Community Interactions Over Food. In *CHI '11 Extended Abstracts on Human Factors in Computing Systems* (pp. 1019-1024). New York, NY: ACM Press.

Book Chapters

Toombs, A., Bardzell, S., and Bardzell, J. (2014). Becoming Makers: Hackerspace Member Habits, Values, and Identities. In J. Söderberg & Maxigas (Eds.) *Book of Peer Production: Special FSCONS Edition* (pp. 36-45). Aarhus, DK: NSU Press. [Invited from Special Issue of Journal of Peer Production]

Workshops Convened

Morrissey, K., **Toombs, A.**, Lazar, A., and Boger, J. Accepted for 2017. DementiaXHCI—The Role of Technology & Design in Dementia. Will be available in *Proceedings of the 2017 CHI Conference Extended Abstracts on Human Factors in Computing Systems* (CHI EA '17). ACM, New York, NY, USA

Invited Talks and Workshops

2017, July 17. Gray C. M., & Toombs, A. *Qualitative Inquiry: Thematic Analysis, Meaning Reconstruction, and Data Management*. Open Lab, Newcastle University, Newcastle upon Tyne, United Kingdom.

2016, November 18. Gray, C. M., & Toombs, A. *Tracing Meaning-Making Through Reconstructive Analysis.* Participatory Information Technology Colloquium, Aarhus University, Aarhus, Denmark.

2013, October 8. Guest Lecturer, INFO-I310: Media, Arts, and Technology. *Expert Amateur Visual Practices in WoW Machinima*. Indiana University, Bloomington, IN.

2013, October 7, 14, & 21. Guest Lecturer, INFO-I590: Advanced Prototyping. *Interactive Prototyping with Sensors*. Indiana University, Bloomington, IN.

2013, October 3. Invited Speaker, IU Makes Lecture Series. *Self-Made Tools in Hackerspaces*. Bloomington, IN.

Invited Research Institute

2015. *Summer Institute*, Consortium for the Science of Sociotechnical Systems (CSST).

Awards

2015. 2 x Best Paper Award Nominations, ACM SIGCHI Conference on Human Factors in Computing Systems.

2014. Best Paper Award Nomination, ACM SIGCHI Conference on Human Factors in Computing Systems.

Professional Service

2017. Associate Chair for the Late Breaking Work track of ACM SIGCHI 2017.

2016. Invited reviewer for IxD&A's special issue on making, for Polity books, for the HCI journal, and for Science Technology and Human Values (ST&HV).

2013-present. Reviewer for ACM SIGCHI: CHI, DIS, CSCW, C&C, DIS Pictorials, and alt.chi.

2014-2016. Student Volunteer for ACM SIGCHI conference.

2014. Volunteer for Making Subjects Conference. Indiana University Bloomington. Technical Volunteer for Clyde, Arduino, XBee Integration session.

2013. Reviewer for Journal of Peer Production.

Community Service

2012-2014. Bloominglabs. Making, hacking, and tinkering workshops; event organization.

Media Coverage

2014, January 18. Featured post on Instructables.
http://www.instructables.com/id/The-Pee-Timer-Connecting-the-Arduino-the-Intel-Per/

Professional Affiliations

Association for Computing Machinery (ACM)