

ANDREA GRIMES PARKER

(Please note that my publications through 2010 are under the name Andrea Grimes.)
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EDUCATION

Georgia Institute of Technology, Atlanta, GA

College of Computing

Ph.D. in Human Centered Computing, 2011

Thesis Title: A Cultural, Community-Based Approach to Health Technology Design

Thesis Advisor: Dr. Rebecca E. Grinter

Committee: Drs. Amy Bruckman, Jim Foley, Elizabeth Mynatt, Mary Czerwinski (Microsoft Research) and Phoebe Sengers (Cornell University)

Northeastern University, Boston, MA

College of Computer and Information Science, Honors Program

B.S. in Computer Science, Summa Cum Laude, 2005

RESEARCH INTERESTS

My research contributes to the fields of **Human Computer Interaction (HCI)**, **Computer Supported Cooperative Work (CSCW)** and **Health Informatics**. My work is further informed by methods, theory and empirical findings from the fields of public health, sociology, and health communication. The main focus of my research is designing and evaluating the impact of software tools that help people move towards improved health and wellness. Within this space, two themes that I study are ethnic and economic health disparities and the social context of health management. In my dissertation research, I examined how digital tools can address diet-related health disparities in low-income African American communities. I designed three novel applications that help users learn healthy eating ideas through gaming and community-shared experiential knowledge. I conducted field studies to evaluate the impact of these systems on health knowledge, behaviors, social interaction, and users' perceptions of themselves and their community.

EMPLOYMENT

GEORGIA INSTITUTE OF TECHNOLOGY, Atlanta, GA

2011 - Present

Postdoctoral Fellow - College of Computing, Everyday Computing Lab

A Tool for Reducing Childhood Obesity in Low-Income Households

Working with Dr. Beth Mynatt, I am a researcher on a multi-site, NIH-funded project in which we are designing a mobile health application that supports diabetes problem solving amongst urban, low-income Hispanics in the United States. In a separate project, I am designing a tool that helps counter the negative effects of television watching on kids' preferences for and consumption of food. This project is funded by a grant from the Emory/Children's Healthcare Research Center; I led the development and writing of the proposal for this grant.

GEORGIA INSTITUTE OF TECHNOLOGY, Atlanta, GA

2005 - 2011

Graduate Research Assistant - College of Computing, Work2Play Lab

A Cultural, Community-Based Approach to Health Technology Design

Working with Dr. Beki Grinter, I researched the social and cultural influences on nutrition in low-income African American communities and how technology can be used to encourage healthy dietary habits. Resulted in [C.5,8,10,11; B.1; J.1; D.1].

EMPLOYMENT CONT.

- MICROSOFT RESEARCH, Redmond, WA 2008
 Summer Research Intern - Collaborative User Experiences Group
Family-Focused Fitness Technologies for Kids
 Working with Drs. Desney Tan and Dan Morris, I conducted a field study to gather design implications for technologies that help families encourage healthy diet & exercise habits in young children. Resulted in [C.9].
- MICROSOFT RESEARCH, Cambridge, UK 2007
 Summer Research Intern - Socio-Digital Systems Group
Exploring the Domestic Technology Landscape
 Working with Dr. Richard Harper, I examined sociological literature on eating practices and brainstormed ways in which this literature can be leveraged in the HCI community. Generated design ideas for technologies that augment eating and cooking practices. Resulted in [C.7].
- MICROSOFT RESEARCH, Redmond, WA 2006
 Summer Research Intern - Community Technologies Group
Calendaring Across Home & Work Boundaries
 Working with Dr. A.J. Brush, I conducted a qualitative study to examine the interaction between working parents' personal and work schedules, and the effect that interaction has on the way they use calendars. Used the results to derive design implications for next-generation electronic calendaring applications. Resulted in [C.6].
- NORTHEASTERN UNIVERSITY, Boston, MA 2004 - 2005
 Undergraduate Research Assistant - College of Computer & Information Science, HCI Laboratory
Privacy Augmented Displays for Mobile Devices
 Working with Dr. Peter Tarasewich, I studied pixel-based notification schemes to augment the privacy of mobile device displays. Resulted in [C.4].
- CITIGROUP GLOBAL MARKETS, INC., Boston, MA 2003 - 2004
 Software Development Intern, Citigroup Advanced Placement Program
- NORTHEASTERN UNIVERSITY, Boston, MA 2002 - 2003
 Undergraduate Research Assistant - College of Computer & Information Science, Biological Knowledge Laboratory
Inductive Discovery of Natural Language Patterns
 Working with Dr. Robert Futrelle, I built a Java-based interactive visualization software for natural language patterns in a Biology corpus. This software was used to create a question-answering system for Biologists. Resulted in [C.1-3].
- KAISER PERMANENTE, San Jose, CA 2001, 2002
 Information Technology Intern
- NORTHEASTERN UNIVERSITY, Boston, MA 2000 - 2001
 Undergraduate Research Assistant - College of Computer & Information Science
 Researched relational databases.

TEACHING EXPERIENCE

- GEORGIA INSTITUTE OF TECHNOLOGY, Atlanta, GA 2011
 Guest Lecture & Course Assistance, CS4001 Computers & Society
 Conducted a guest lecture entitled, "Professional Ethics in Computing". Helped facilitate class breakout discussions throughout the semester. Helped develop the midterm exam.

TEACHING EXPERIENCE CONT.

- EMORY UNIVERSITY, Atlanta, GA 2010
 Invited Lecture, ANT339 Defining Health: Biocultural Perspective
Conducted a guest lecture for this course entitled, "Health in the modern world: Technology, disparities and novel future approaches."
- GEORGIA INSTITUTE OF TECHNOLOGY, Atlanta, GA 2009
 FACES Teaching Practicum, CS6455 Qualitative Research Methods
Conducted guest lectures for this course.

BOOK CHAPTER

- [B.1] **A. Grimes** (2010). Sharing Personal Reflections on Health Locally. *Shared Encounters: Content Sharing as Social Glue in Public Places*, Springer Press.

JOURNAL PAPER

- [J.1] **A.G. Parker**, R. Harper & R.E. Grinter (2011). "Celebratory Health Technology," *Journal of Diabetes Science & Technology*.

PEER-REVIEWED CONFERENCE PAPERS

- [C.12] **A.G. Parker**, V. Kantroo, H. Lee, M. Osornio, M. Sharma, and R.E. Grinter (2012). Health Promotion as Activism: Building Community Capacity to Effect Social Change. In *Proc. of CHI 2012*. [23% acceptance rate]
 > **HONORABLE MENTION, BEST PAPER AWARD (TOP 5% OF SUBMISSIONS)**
- [C.11] **A. Grimes**, V. Kantroo and R.E. Grinter (2010). Let's Play! Mobile Health Games for Adults. In *Proc. of UBIComp 2010*. [19% acceptance rate]
- [C.10] **A. Grimes**, B. Landry and R.E. Grinter (2010). Characteristics of Shared Health Reflections in a Local Community. In *Proc. of CSCW 2010*. [20% acceptance rate]
- [C.9] **A. Grimes**, D.S. Tan and D. Morris (2009). Technological Support for Family Reflections on Health. In *Proc. of GROUP 2009*. [36% acceptance rate]
- [C.8] **A. Grimes**, M. Bednar, J.D. Bolter, and R.E. Grinter (2008). EatWell: Sharing Nutrition-Related Memories in a Low-Income Community. In *Proc. of CSCW 2008*. [23% acceptance rate]
 > **HONORABLE MENTION, BEST PAPER AWARD (TOP 5% OF SUBMISSIONS)**
- [C.7] **A. Grimes** and R. Harper (2008). Celebratory Technology: New Directions for Food Research in HCI. In *Proc. of CHI 2008*. [22% acceptance rate]
 > **HONORABLE MENTION, BEST PAPER AWARD (TOP 5% OF SUBMISSIONS)**
- [C.6] **A. Grimes** and A.J. Brush (2008). Life Scheduling to Support Multiple Social Roles. In *Proc. of CHI 2008*. [22% acceptance rate]
- [C.5] **A. Grimes** and R.E. Grinter (2007). Designing Persuasion: Health Technology for Low-Income African American Communities. In *Proc. of Persuasive Technology 2007*.

PEER-REVIEWED CONFERENCE PAPERS CONT.

[C.4] **A. Grimes** and P. Tarasewich (2005). Investigating Privacy-Augmented Displays for Mobile Devices. In *Proc. of HCI International 2005*.

[C.3] **A. Grimes** and R.P. Futrelle (2003). Text visualization for natural language analysis of Biology full text. In *Proc. of CSB'03*.

[C.2] R.P. Futrelle, **A. Grimes** and Mingyan Shao (2003). Extracting structure from HTML documents for language visualization and analysis. In *Proc. of WDA-2003*.

[C.1] R.P. Futrelle, M. Shao, C. Cieslik and **A. Grimes** (2003). Extraction, layout analysis and classification of diagrams in PDF documents. In *Proc. of ICDAR-2003*.

THESIS

A.G. Parker (2011). A Cultural, Community-Based Approach To Health Technology Design. College of Computing, Georgia Institute of Technology.

MAGAZINE ARTICLES

[M.2] R.E. Grinter, K.A. Siek and **A. Grimes** (2010). Is Wellness Informatics a Field of Human-Centered Health Informatics? *ACM Interactions Magazine*.

[M.1] G.R. Hayes, E.S. Poole, G. Iachello, S.N. Patel, **A. Grimes**, G.D. Abowd, K.N. Truong (2007). Physical, Social, and Experiential Knowledge of Privacy and Security in a Pervasive Computing Environment. *IEEE Pervasive Computing Special Issue on Security & Privacy*.

DOCTORAL CONSORTIUM

[D.1] **A. Grimes** (2008). Socio-Culturally Relevant Mobile Applications for Nutrition. *Extended Abstracts, Proc. of CSCW 2008*.

POSTERS & WORKSHOP PAPERS

[W.4] **A. Grimes** and R.E. Grinter (2010). "Playing games and telling stories: Implications for technologies that address African American health disparities." Poster presented at the 138th American Public Health Association (APHA) Annual Meeting.

[W.3] **A. Grimes** and R.E. Grinter (2006). Using Entertainment to Improve Nutrition Among African-Americans. Position paper presented at the Entertainment Media at Home Workshop at CHI 2006.

[W.2] B. Brown, M. Chetty, **A. Grimes** & E. Harmon (2005). Effortless Monitoring of Diet & Exercise for Students. Poster presented at the CHI-Atlanta Student Research Competition.

POSTERS & WORKSHOP PAPERS CONT.

[W.1] **A. Grimes**, P. Tarasewich & C. Campbell (2005). Keeping Information Private in the Mobile Environment. Position paper presented at First International Workshop on Social Implications of Ubiquitous Computing at CHI 2005.

INVITED TALKS

[T.12] Ford Foundation Conference of Fellows, Irvine, CA (2011). "Community-Based Research: A Health Technology Case Study."

[T.11] Emory University + Children's Healthcare Pediatric Research Center, Atlanta, GA (2011). "Leveraging Personal Health Data & Social Media: Implications for the Design of Digital Pediatric & Family Health Interventions."

[T.10] The African American Collaborative Obesity Research Network (AACORN) Youth Summit, Philadelphia, PA (2011). "Technology Tools for Healthy Living: Is there an App for That?"

[T.9] National Institutes of Health (NIH) Workshop on Virtual Reality Technologies for Research and Education in Obesity and Diabetes, Bethesda, MD (2010). "Celebratory Health Technology: Designing Around Positive Food Experiences."

[T.8] U.S. Dept. of Health & Human Services (HHS) Region IV Office, Atlanta, GA (2009). "Reducing Health Disparities Through Partnerships Between Community Health Organizations & Technology Researchers."

[T.7] Cornell University, SIGCHI Cornell Chapter Invited Speaker Series, Ithaca, NY (2009). "Designing Culturally-Focused Health Technology."

[T.6] REACH for Wellness, Atlanta, GA (2009). "Using Cell Phones to Encourage Healthy Eating."

[T.5] Georgia Institute of Technology, Atlanta, GA (2008). "Celebratory Technology: New Directions for Food Research in HCI."

[T.4] Georgia Institute of Technology, Atlanta, GA (2008). "EatWell: Sharing Nutrition-Related Memories in a Low-Income Community."

[T.3] Northeastern University, Boston, MA (2008). "Designing Technology to Promote Healthy Eating in Low-Income Communities."

[T.2] Northeastern University, College of Computer & Information Science Colloquium, Boston, MA (2006). "Human Centered Computing for a Technologically-Filled World."

[T.1] Nokia Research Laboratory, Boston, MA (2005). "Designing Interaction for Ultra-Mobile Devices."

ABSTRACT PRESENTATION

[A.1] "Addressing Health Disparities through Partnerships Between Community Health Organizations & Technology Researchers." Abstract presentation at the U.S. Department of Health & Human Services (HHS) Office of Minority Health's Leadership Summit on Eliminating Racial and Ethnic Disparities in Health, National Harbor, MD (2009).

WORKSHOP & PANEL ORGANIZATION

[P.3] M. Reddy, L. Mamykina and **A.G. Parker** (2011). Workshop on Interactive Systems in Healthcare (WISH) 2011. Workshop at the AMIA 2011 Fall Symposium.

[P.2] R.E. Grinter, K.A. Siek and **A. Grimes** (2010). Wellness Informatics. Workshop at the CHI 2010 Conference.

[P.1] **A. Grimes** & S. Lewis (2009). “Changing the World: Using Technology to Address Social Issues”. Birds of a Feather session at The Richard Tapia Celebration for Diversity in Computing Conference.

GRANTS

- Clinical Outcomes Research & Public Health (CORPH) Center Seed Grant, Emory + Children’s Healthcare Research Center 2011
\$40k: Key personnel and lead proposal writer
- Georgia Institute of Technology FACES Postdoctoral Fellowship 2011
\$35k grant awarded to two applicants, in support of postdoctoral research activities
- Yahoo! Research Key Technical Challenge Grant 2008
\$5k award to Ph.D. students conducting research in areas that present significant technical challenges

FELLOWSHIPS & SCHOLARSHIPS

National

- Ford Foundation Dissertation Fellowship 2010 - 2011
stipend awarded to 21 Ph.D. students across disciplines in recognition of promise for future research excellence
- Microsoft Research Graduate Fellowship, Social Impact Award 2008 - 2010
*yearly stipend + tuition allowance + yearly travel grant
special award made in recognition of the contribution of my research to society, health and computer science*
- Google Anita Borg Scholarship 2007 - 2008
award given to 20 graduate students out of a pool of over 250 applicants
- National Science Foundation (NSF) Graduate Research Fellowship 2005 - 2008
yearly stipend + tuition allowance
- Phi Kappa Phi Graduate Fellowship 2005 - 2006
awarded to selected members of the Phi Kappa Phi National Honor Society

University

- Georgia Institute of Technology IBM/FOCUS Fellowship 2010 - 2011
yearly stipend awarded for research excellence
- Georgia Institute of Technology FACES Pre-doctoral Fellowship 2007 - 2011
yearly stipend awarded for research excellence and promise
- Georgia Institute of Technology President’s Fellowship 2005 - 2010
yearly stipend awarded for exemplary scholarship and innovation

FELLOWSHIPS & SCHOLARSHIPS CONT.

University Cont.

- Ralph Bunche Full Undergraduate Academic Scholarship – Northeastern University 2000 – 2005

AWARDS & HONORS

National & International

- 2nd place (out of 15 teams), ACM CHI 2006 Student Design Competition 2006
- Computing Research Association (CRA) 2005 Outstanding Female Undergraduate Award 2005
national award from the CRA for outstanding research potential presented to one undergraduate female in North America

University

- Georgia Institute of Technology Foley Scholars Finalist 2009, 2010
awarded for research excellence
- Georgia Tech College of Computing Ph.D. Student Research Excellence Commendation 2008
- Northeastern University Alcott Award 2005
presented to 1 undergraduate for outstanding performance in intellectual activities beyond the curriculum requirements
- Northeastern University Hodgkinson Award 2005
awarded to 1 College of Computer & Information Science student for excellence in scholarship and leadership on the campus and in the community
- Northeastern University Sears B. Condit Award 2005
awarded for outstanding academic achievement
- Northeastern Univ. College of Computer & Information Science Undergraduate Research Award 2005
- John D. O'Bryant African American Institute Academic Excellence Award 2005
awarded to 1 graduating senior for outstanding academic achievement
- Panel Member, WACE International Symposium on Work-Integrated Learning 2004
selected by the Northeastern Univ. President's Office as 1 of 2 U.S. student representatives
- Phi Kappa Phi National Honors Society Commendation 2001 - 2003
commendation for having the top GPA in Northeastern University's College of Computer & Information Science

STUDENTS SUPERVISED

Master's: Martin Bednar (*resulted in [C.8]*), Vasudhara Kantroo (*resulted in [C.11, C.12]*), Heerin Lee (*resulted in C.12*), Sheena Lewis (*Master's thesis*), Sarah Williams

Undergraduate: Victoria Ayo, Wontaek Chung, Miguel Osonorio (*resulted in C.12*), Mansi Sharma (*Undergraduate thesis; (resulted in C.12)*)

SERVICE & VOLUNTEER WORK

Conference Program Committees

Associate Chair, UBICOMP 2012
 Associate Chair, CHI 2012 (Understanding Users Subcommittee)
 Pervasive Healthcare 2010 & 2011
 Associate Chair, CHI 2009 (Work-in-Progress Submissions)

Paper Submissions Reviewer

UIST 2011 (Poster Committee)
 CHI 2007-2011; CSCW 2008, 2010 & 2011; DIS 2012; HRI 2009; Pervasive 2012; Pervasive Computing Magazine 2008 & 2009; Pervasive Healthcare 2009; Ubicomp 2010-2011

Grant Proposal Reviewer

National Science Foundation, 2011

University

Faculty Recruitment Committee, Student Representative, 2010
 Co-Coordinator, Georgia Tech Human-Computer Interaction Seminar, 2008
 Co-Coordinator, Georgia Tech Human-Centered Computing Seminar, 2008
 Co-Coordinator, Georgia Tech Women@CC (a student group for women in computer science), 2007-2008
 Georgia Tech College of Computing Ph.D. Recruitment Student Coordinator, 2006 & 2008
 Leadership Board Member, Georgia Tech Minorities in Computer Science, 2006
 Founder, CCIS-W (a student group for women in computer science at Northeastern Univ.), 2005
 CRA-W Distinguished Lecture Series Event Organizer, 2004-2005

Personal

High School Student Mentor, Higher Education Resource Center, 2003 - 2005
 Programming Tutor, 2003
 Computer Technology Instructor, 2003

MEMBERSHIPS

Association for Computing Machinery (ACM)	2004 - Present
American Public Health Association (APHA)	2010 - Present
American Medical Informatics Association (AMIA)	2011 - Present
Phi Kappa Phi National Honors Society	2004 - 2006
Upsilon Pi Epsilon (International Computer Science Honors Society)	2004 - 2006