

# AQUEASHA M. MARTIN-HAMMOND

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## EDUCATION

CLEMSON UNIVERSITY, CLEMSON, SC August 2009–August 2014

### **Ph.D. Computer Science**

Specialization: Human-Centered Computing

Dissertation Title: Designing for Understanding: Helping Older Adults

Understand Over-the-Counter Medication Risks

Committee: Juan Gilbert (chair), Damon Woodard (co-chair), Larry Hodges,

Tracy Fasolino, Sekou Remy

UNIVERSITY OF ALABAMA, BIRMINGHAM, BIRMINGHAM, AL August 2005-August 2007

### **M.S. Computer Science**

Concentration Area: Computer Graphics

TOUGALOO COLLEGE, TOUGALOO, MS August 2001-May 2005

### **B.S. Computer Science, Minor in Mathematics**

Summa Cum Laude Honors ( $\geq 3.8$ )

## RESEARCH EXPERIENCE

UNIVERSITY OF MARYLAND, BALTIMORE COUNTY August 2014 – Present

### **Postdoctoral Research Associate**

Mentor: Amy Hurst

SCHOOL OF EDUCATION, CLEMSON UNIVERSITY August 2011–August 2014

Reading Recovery Program

### **Research Assistant**

Supervisor: Celeste Bates

HUMAN-CENTERED COMPUTING LAB, CLEMSON UNIVERSITY August 2010–August 2014

### **Research Assistant**

Advisor: Juan E. Gilbert

INTERNATIONAL BUSINESS MACHINES (IBM) June 2011 – August 2011

### **User Experience CO-OP**

Supervisors: Shannon Keegan

INTERNATIONAL BUSINESS MACHINES (IBM) RESEARCH ALMADEN June 2010 – August 2010

Services Research Group

### **Research Intern**

Mentors: Yolanda Rankin, Susuan Stucky

HUMAN-CENTERED COMPUTING LAB, AUBURN UNIVERSITY June 2009 – August 2009  
**Research Assistant**  
Advisor: Juan E. Gilbert

DEPARTMENT OF COMPUTER SCIENCE AND SOFTWARE August 2008 – May 2009  
ENGINEERING, AUBURN UNIVERSITY  
**Research Assistant**  
Supervisor: Cheryl Seals

DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE, August 2003 – May 2005  
TOUGALOO COLLEGE  
**Mellon-Mays Fellow**

BERKELEY INSTITUTE OF DESIGN, BERKELEY, CA May 2004 – August 2004  
UNIVERSITY OF CALIFORNIA BERKELEY  
Summer Undergraduate Program in Research at Berkeley - IT  
**Summer Intern**  
Mentors: Matthew Kam, Morgan Ames, John Canny

## PUBLICATIONS

### **JOURNALS**

[J4] **Martin-Hammond, A.**, Abegaz, T., and Gilbert, J. 2015. Designing an Over-the-Counter Consumer Decision-Making Tool for Older Adults. *Journal of Biomedical Informatics* 57(2015), 113-123.

[J3] Caidi, N., Komlodi, A., Abrao, A.L., & **Martin-Hammond, A.** 2014. Collectively figuring it out: Foreign-trained health professionals and labor market integration. *LIBRES*, 24(2), 118-131.

[J2] Bates, C. C., & **Martin, A.** (2013). Using mobile technology to support literacy-coaching practices. *Journal of Digital Learning in Teacher Education*, 30(2), 60-66.

[J1] Seals, C.D., Moses, W., Nyagwencha, J., **Martin, A.**, and Clanton, K. et al., 2008. Life Long Learning: Seniors in Second Life Continuum. *Journal of Computer Science*, 4: 1064-1070.

### **REFEREED CONFERENCE PAPERS**

[C7] **Martin-Hammond, A.**, Ali, A., Hornback, C., and Hurst, A. 2015. Understanding Design Considerations for Adaptive User Interfaces for Accessible Pointing with Older and Younger Adults. *Web For All (W4a) 2015 – Florence, Italy* (**Best Paper Nominee**)

[C6] **Martin, A.**, Jones, J., and Gilbert, J. A spoonful of sugar: Understanding the over-the-counter medication needs and practices of older adults. *Pervasive Computing Technologies for Healthcare (PervasiveHealth)*, 2013 7th International Conference on, May 2013. (**Acceptance Rate < 30%**).

[C5] **Martin, A.**, Rankin, Y., and Bolinger, J. Client TouchPoint modeling: understanding client interactions in the context of service delivery. In *Proceedings of the 2011 annual conference on Human factors in computing systems (CHI '11)*. ACM, New York, NY, USA, 979-982. (**Acceptance Rate: ~26%**)

[C4] Bolinger, J., **Martin, A.**, Rankin, Y. "Client TouchPoint Modeling: Making the Invisible Visible within IT Service Delivery Organizations. SRII Global Conference (SRII), 2011 Annual , vol., no., pp.685-692, March 29 2011-April 2 2011. DOI: 10.1109/SRII.2011.74.

[C3] Alvarez, I., **Martin, A.**, Dunbar, J., Taiber, J., Wilson, D.M., Gilbert, J. Voice Interfaced Vehicle User Help. In Proceedings of Automotive UI 2010, Pittsburgh, PA, November 11-12, 2010.

[C2] Wilson, D., **Martin, A.**, & Gilbert, J. 'How May I Help You' Spoken Queries for Technical Assistance. In Proceedings of the 48th Annual Southeast Regional Conference (Oxford, Mississippi, April 15-17, 2010). ACM-SE 48. ACM, New York, NY.

[C1] Morrison, D., Gilbert, J., Alnizami, H. Dawkins, S., Eugene, W., **Martin, A.** & Moses, W. Supporting License Plate Queries for First Responders Using the VoiceLETS System. In Proceedings of the 48th Annual Southeast Regional Conference (Oxford, Mississippi, April 15-17, 2010). ACM-SE 48. ACM, New York, NY.

### BOOK CHAPTERS

[B1] Wilson, D., **Martin, A.**, & Gilbert, J. Ed. HongYi Sun. iTech: An Interactive Virtual Assistant for Technical Communication. Management of Technological Innovation in Developing and Developed Countries. InTech: 2012 InTech. March 2012. Print.

### SCHOLARLY MAGAZINES

[M2] Gilbert, J., **Martin, A.M.**, Rogers, G., McClendon, J., and Ekandem, J. Hey That's Not Who I Voted For! A Study on Touch Screen Ballot Design. *interactions* 19, 6 (November 2012), 34-39.  
<http://doi.acm.org/10.1145/2377783.2377792>

[M1] Gilbert, J. E., **Martin, A. M.**, Eugene, W., Alnizami, H., Moses, W., and Morrison, D. 2010. Interacting with public policy: Driving transportation policy through technological innovation. *interactions* 17, 4 (Jul. 2010), 42-48. DOI= <http://doi.acm.org/10.1145/1806491.1806502>.

### DOCTORAL CONSORTIUM

[DC1] **Martin, A.** (2011) . Designing Health Systems for Understanding. 5<sup>th</sup> Doctoral Consortium on Sociotechnical Issues in Medical Informatics. October 21, 2011.

### WORKSHOP PAPERS AND ABSTRACTS

[W4] Bates, C.C., Bryfczynski, S., **Martin, A.**, and Pargas, R. Digital Running Records: The Development and Exploration of an iPad App. *Literacy Research Association 2013 Annual Conference, December 2013*.

[W3] Bates, C.C. and **Martin, A.** Exploring the Use of ICTs in Literacy Coaches' Note Taking and Reflective Practices. In proceedings of the 2013 American Educational Research Association Annual Meeting. San Francisco, CA. April 2013.

[W2] **Martin, A.**, Moses, W., Ekandem, J., and Gilbert, J. An Evaluation of Three Mobile Medication Management Applications. Workshop on Evaluating Off-the-Shelf Technologies for Personal Health Monitoring, UbiComp 2012.

[W1] Rankin, Y.A, Enyedi, R., Anderson, L. & **Martin, A.** (2012). The Other Side of the Coin: User Experience from an Industry Perspective. CHI 2012 Theories Behind UX Research and How They are Used in Practice Workshop. Austin, TX, May 6, 2012.

### POSTER PRESENTATIONS

[P4] **Martin, A.** (2011). Exploring Opportunities for Multimodal Interaction in Computer Physician Ordering Entry Systems. Social Science Research Council Mellon-Mays Summer Institute. June 15 – 17, 2011, Princeton University, Princeton, NJ.

[P3] **Martin, A.** (2011). Opportunities for Multimodal Interaction in Computer Physician Ordering Entry Systems. EL Alliance National Meeting. April 2 – 3, 2011, San Francisco, CA.

[P2] **Martin, A.** (2011). Alphanumeric Recognition Algorithm. 2011 ADMI Conference. April 14 – 16, 2011, Clemson University, Clemson, SC.

[P1] **Martin, A.**, and Ekandem, J. (2010). VoiceText. 2010 CHI Mentoring (CHIME) Workshop. April 9 – 10, 2010, in conjunction with CHI 2010, Atlanta, GA.

### INTELLECTUAL DEVELOPMENT

[1] Bates, C. C., Bryfczynski, S., Pargas, R. & **Martin, A.** (2012). Record of Reading (Version 1.0.2). Retrieved from <http://itunes.apple.com/us/app/record-ofreading/id543574721?mt=8>

### TEACHING EXPERIENCE

DEPARTMENT OF INFORMATION SYSTEMS January 2015 – May 2015  
UNIVERSITY OF MARYLAND, BALTIMORE COUNTY  
**Instructor for Undergraduate User Interface Design Course**

DEPARTMENT OF COMPUTER SCIENCE AND SOFTWARE August 2008 – August 2009  
ENGINEERING, AUBURN UNIVERSITY, AUBURN, AL  
**Graduate Teaching Assistant for Computer Literacy Course**

DEPARTMENT OF COMPUTER SCIENCE AND SOFTWARE January 2009 – August 2009  
ENGINEERING, AUBURN UNIVERSITY, AUBURN, AL  
**Coordination Team Assistant for Computer Literacy Course**

DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE August 2003 – May 2005  
TOUGALOO COLLEGE, TOUGALOO, MS  
**Supplemental Instructor for Pre-Calculus I&II, Calculus I&II, Computer Fundamentals, C++, Visual Basic**

### INVITED TALKS AND GUEST LECTURES

Department of Information Systems April 2015  
University of Maryland, Baltimore County  
**Lecture: Intro to MySQL and PHP**

18F Accessibility Hackathon Lightning Talk and Demo March 2015  
**Talk: "Accessible Technology Research at UMBC"**

Department of Information Systems October 2014  
University of Maryland, Baltimore County  
**Lecture Topic: Introduction to HCC and HCC Research at UMBC**

## GRANT WRITING EXPERIENCE

- [4] **Martin, A.** (2012). Mellon-Mays Graduate Studies Enhancement Grant. Social Science Research Council. \$533.00. Status: Awarded.
- [3] **Martin, A.** (2011). Mellon-Mays Pre-Doctoral Research Grant. Social Science Research Council. \$2980.73. Status: Awarded.
- [2] Gilbert, J.E., Woodard, D., & Hodges, L. (2011) NSF S-STEM: Human-Centered Computing Scholars: Fostering a New Generation of Underrepresented and Financially Disadvantaged Researchers, National Science Foundation (NSF), \$552,000, 06/2011 -05/2016. Status: Awarded.  
\*\* contributed as graduate student to writing the proposal
- [1] **Martin, A.** (2010) Mellon-Mays Graduate Studies Enhancement Grant. Social Science Research Council, \$1460.70. Status: Awarded

## PROFESSIONAL WORK EXPERIENCE

**PROGRAMMER ANALYST** August 2007 – August 2008  
Computer Technology Solutions, Inc., Birmingham, AL

**INFORMATION TECHNOLOGY INTERN** May 2005 – August 2005  
Jackson Heart Study ARIC Center, Jackson, MS

## FELLOWSHIPS AND SCHOLARSHIPS

National Science Foundation Bridge to the Doctorate Fellowship, 2005 – 2007  
Tougaloo College Presidential Fellowship, 2001 – 2005  
Northrop Grumman Scholarship, 2002 – 2003  
Pepsi-Cola Scholarship, 2001 - 2002

## HONORS AND AWARDS

2013 Digital Undivided Hackathon Winner  
2012 Grace Hopper Celebration of Women In Computing Scholarship Recipient  
2012 Google GRAD CS Forum Invitee  
2011 Clemson University Outstanding Ph.D. Student in Computer Science  
2010 Ford Foundation Pre-doctoral Fellowship Honorable Mention  
2009 Richard Tapia Celebration of Diversity in Computing Scholarship Recipient  
2005 National Science Foundation Graduate Research Fellowship Honorable Mention  
2005 Who's Who Among College Students  
Mellon-Mays Fellow

Ronald E. McNair Scholar  
Tougaloo College Math/Computer Science Award  
Tougaloo College Natural Science Division Academic Excellence Award

### PROFESSIONAL DEVELOPMENT

2013 University of Michigan NextProf Workshop Invitee  
2013 Palmetto State GEC Health Literacy in Older Adults Workshop  
2012 Summer Social Webshop Participant  
2010 Workshop on Interactive Systems in Healthcare (WISH) Mentoring Program  
2010 Computer Human Interaction (CHI) 2010 Mentoring Workshop Invitee  
2010 Computing Research Association – Women (CRA-W) Cohort Invitee

### RECENT SERVICE ACTIVITIES

[1] PROMISE AGEP Research Symposium & PD Conference 2015 Poster Judge  
[2] Pervasive Computing Technologies for Healthcare 2015 Reviewer  
[3] Conference on Human factors in Computing Systems (CHI) 2015 Reviewer  
[4] Pervasive Computing Technologies for Healthcare 2014 Reviewer  
[5] Conference on Human factors in Computing Systems (CHI) 2014 Reviewer  
[6] Conference on Human factors in Computing Systems (CHI) 2012 Reviewer  
[7] Clemson Graduate School Personal Enrichment Grant (PEG) 2012 Reviewer  
[8] Annuals of the Next Generation (ANG) Journal Editorial Board Member, August 2010 – May 2011

### OUTREACH

[1] National Maker Faire UMBC Table Volunteer June 2015  
[2] Accessibility Hackathon Lightning Talk and Demo March 2015  
[3] MD Science Museum Gadgets and Gears UMBC Table Volunteer February 2015  
[4] 2013 SCHOOL OF COMPUTING CODE-IT DAY INSTRUCTOR April 2013  
[5] SCHOOL OF COMPUTING GRADUATE STUDENT ASSOCIATION September 2012 – May 2013  
[6] DANIEL HIGH SCHOOL CAREER CAFÉ May 2012  
[7] CAROLINA WOMEN IN COMPUTING CONFERENCE February 2012  
[8] WORKSHOP ON ACCESSIBLE HEALTH RECORDS, October 2010  
[9] Kappa KAPPA ALPHA PsiENCE HCC LAB DAY February 2010  
[10] Thomastown Attendance Center Homecoming Speaker and Marshall, 2009  
[11] Auburn University Robotics and Game Development Camp Coordination Assistant, 2009  
[12] Auburn University Robotics and Comp Camp Coordination Assistant and Instructor, 2009  
[13] Auburn University Engineering Day, 2009

### MEMBERSHIPS

Association for Computing Machinery (ACM)  
American Medical Informatics Association (AMIA)  
ACM Special Interest Group in Computer Human Interaction (SIGCHI)  
ACM Special Interest Group in Health Informatics (SIGHIT)

## Magic Mentoring Program for Girls in Computing