

Aqueasha M. Martin-Hammond

School of Informatics and Computing
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ACADEMIC POSITIONS

Assistant Professor 2016 – Present
 Department of Human-Centered Computing
 INDIANA UNIVERSITY – PURDUE UNIVERSITY INDIANAPOLIS (IUPUI)

Postdoctoral Research Associate 2014 – 2016
 Information Systems Department
 UNIVERSITY OF MARYLAND, BALTIMORE COUNTY
 Mentor: Amy Hurst

EDUCATION

Ph.D. Computer Science, Concentration: Human-Centered Computing 2009 - 2014
 CLEMSON UNIVERSITY, CLEMSON, SC

M.S. Computer Science 2005 – 2007
 UNIVERSITY OF ALABAMA, BIRMINGHAM, BIRMINGHAM, AL

B.S. Computer Science, Minor: Mathematics 2001 – 2005
 TOUGALOO COLLEGE, TOUGALOO, MS
 Summa Cum Laude Honors (≥ 3.8)

RESEARCH EXPERIENCE

SCHOOL OF EDUCATION, CLEMSON UNIVERSITY 2011 - 2014
 Mentor: Celeste Bates
 Research Assistant, Reading Recovery Program

CLEMSON UNIVERSITY 2010 - 2014
 Advisor: Juan E. Gilbert
 Research Assistant, Human-Centered Computing Lab

INTERNATIONAL BUSINESS MACHINES (IBM) RESEARCH ALMADEN Summer 2010
 Mentors: Yolanda Rankin, Susan Stucky
 Research Intern, Services Research Group

AUBURN UNIVERSITY 2008 - 2009
 Mentors: Cheryl Seals , Juan E. Gilbert
 Research Assistant, Computer Science and Software Engineering

TOUGALOO COLLEGE 2003 – 2005
 Mentor: Nimr Fahmy
 Mellon-Mays Fellow, Department of Mathematics and Computer Science

UNIVERSITY OF CALIFORNIA BERKELEY Summer 2004
 Mentors: Matthew Kam, Morgan Ames, and John Canny
 SUPERB-IT Intern, Berkeley Institute of Design

PUBLICATIONS

DISSERTATION

[D1] **Martin, A.** 2014. Designing for Understanding: Helping Older Adults Understand Over-the-Counter Medication Risks. School of Computing, Clemson University.
 Committee: Juan Gilbert (chair), Damon Woodard (co-chair), Larry Hodges, Tracy Fasolino, Sekou Remy

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

[C10] **Martin-Hammond, A.**, & Gilbert, J. (2016). Examining the Effect of Automated Health Explanations on Older Adults' Attitudes Toward Medication Information. In Proceedings of the 10th EAI International Conference on Pervasive Computing Technologies for Healthcare. ACM.

[C9] Rayes, W., **Martin-Hammond, A.**, Komlodi, A., Caidi, N., and Sudin, N. (2016). An Informed Transition? International Medical Graduates Settling in the United States and Canada. In Proceedings of ASIS&T Annual Meeting, Copenhagen, Denmark (To appear).

[C8] Komlodi, A., Caidi, N., **Martin-Hammond, A.**, Rayes, W., & Sundin, N. (2016). Culturally-Situated Information Literacy: International Medical Graduates Navigating New Information Landscapes. Presented at *CaTaC'16: Culture, Technology, Communication: Common world, different futures? At London, UK*.

[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. 2013. A spoonful of sugar: understanding the over-the-counter medication needs and practices of older adults. In Proceedings of the 7th EAI International Conference on Pervasive Computing Technologies for Healthcare, ICST, Brussels, Belgium, 93-96.

[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.

[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.

[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.

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.

POSTER PRESENTATIONS

[P6] **Martin-Hammond, A.**, Ali, A., Means, C., Hornback, C., & Hurst, A. (2016). Supporting Awareness of Pointing Behavior among Diverse Groups. In Proceedings of the 10th EAI International Conference on Pervasive Computing Technologies for Healthcare. ACM.

[P5] **Martin, A.** (2012). Designing for Understanding: Helping Older Consumers Understand Over-the-Counter Drug Risks. 8th Annual Aging Research Day. March 9, 2012, Greenville Hospital System University Medical Center, Greenville, SC

[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.

EDITORALLY REVIEWED WORK

[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.

[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.

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.

DOCTORAL CONSORTIUM

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

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

INDIANA UNIVERSITY – PURDUE UNIVERSITY INDIANAPOLIS (IUPUI) Fall 2016
Instructor, INFO-H 543 - Interaction Design Methods
Human-Centered Computing Department

UNIVERSITY OF MARYLAND, BALTIMORE COUNTY Spring 2016
Co-Instructor, IS 729 – Human-Centered Design
Department of Information Systems

UNIVERSITY OF MARYLAND, BALTIMORE COUNTY Spring 2015
Instructor, IS 403 – Undergraduate User Interface Design Course
Department of Information Systems

AUBURN UNIVERSITY Fall 2008 - Summer 2009
 Graduate Teaching Assistance, COMP 1000: Undergraduate Computer Literacy Course
 Department of Computer Science and Software Engineering

AUBURN UNIVERSITY Spring & Summer 2009
 Coordination Team Assistant, COMP 1000: Computer Literacy Course
 Department of Computer Science and Software Engineering

TOUGALOO COLLEGE Fall 2003 – Spring 2005
 Supplemental Instructor for Pre-Calculus I&II, Calculus I&II, Computer Fundamentals, C++, Visual Basic
 Department of Mathematics and Computer Science

INVITED TALKS AND GUEST LECTURES

- [4] HCC 742: Developing Interfaces for Rehabilitation November 2015
 Department of Information Systems, University of Maryland, Baltimore County
 Talk: "Designing Adaptive Systems to Assist with Pointing Problems"
- [5] HCC 742: Developing Interfaces for Rehabilitation October 2015
 Department of Information Systems, University of Maryland, Baltimore County
 Talk: "Helping Older Adults Understand Nonprescription Medication Information"
- [3] HCC 613: User Interface Prototyping and Development April 2015
 Department of Information Systems, University of Maryland, Baltimore County
 Lecture: "Intro to MySQL and PHP"
- [2] White House Accessibility Hackathon: Lightning Talk and Demo March 2015
 Talk: "Accessible Technology Research at UMBC"
- [1] IS 803: Information Systems Seminar October 2014
 Department of Information Systems, University of Maryland, Baltimore County
 Lecture Topic: "Introduction to HCC and HCC Research at UMBC"

GRANTS

- [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, NSF, \$552,000, 06/2011 -05/2016. Status: Awarded. ***contributed as graduate student*
- [1] Martin, A. (2010) Mellon-Mays Graduate Studies Enhancement Grant. Social Science Research Council, \$1460.70. Status: Awarded

PROFESSIONAL WORK EXPERIENCE

INTERNATIONAL BUSINESS MACHINES (IBM) Summer 2011
 Supervisors: Shannon Keegan and Roger Santos
 CO-OP, User Experience

COMPUTER TECHNOLOGY SOLUTIONS, INC, BIRMINGHAM, AL 2007 - 2008
Programmer Analyst

JACKSON HEART STUDY ARIC CENTER, JACKSON, MS Summer 2005
Information Technology Intern

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

2015 Grace Hopper Celebration of Women In Computing Scholarship Recipient
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

2015 Computing Research Association – Women (CRA-W) Early Career Mentoring Workshop
2014 - 2015 University of Maryland, Baltimore County Faculty 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) Grad Cohort

SERVICE ACTIVITIES

- [1] Conference on Human factors in Computing Systems (CHI) Associate Chair – Late-Breaking Work Subcommittee
- [2] W4A (Web for All) 2016 Program Committee
- [2] Advances in DIY Health & Wellbeing CHI 2016 Workshop Program Committee
- [3] Conference on Human factors in Computing Systems (CHI) 2016 Reviewer
- [4] PROMISE AGE P Research Symposium & PD Conference 2015 Poster Judge

- [5] Pervasive Computing Technologies for Healthcare 2015 Reviewer
- [6] Conference on Human factors in Computing Systems (CHI) 2015 Reviewer
- [7] Pervasive Computing Technologies for Healthcare 2014 Reviewer
- [8] Conference on Human factors in Computing Systems (CHI) 2014 Reviewer
- [9] Conference on Human factors in Computing Systems (CHI) 2012 Reviewer
- [10] Clemson Graduate School Personal Enrichment Grant (PEG) 2012 Reviewer
- [11] Carolina Women in Computing Volunteer, May 2012
- [12] Annuals of the Next Generation (ANG) Journal Editorial Board Member, August 2010 – May 2011
- [13] NSF Workshop of Accessible Health Records, October 2010

COMMUNITY SERVICE AND OUTREACH

- [1] National Maker Faire UMBC Table Volunteer, June 2015
- [2] White House Accessibility Hackathon Lightning Talk and Demo, March 2015
- [3] MD Science Museum Gadgets and Gears UMBC Table Volunteer, February 2015
- [4] Clemson University, School of Computing Code-IT Day Instructor, April 2013
- [5] School of Computing Graduate Student Association, Fall 2012 - Spring 2013
- [6] Daniel High School Career Café Speaker (Central, SC), May 2012
- [7] Kappa Alpha PsiENCE HCC Lab Day, February 2010
- [8] Thomastown Attendance Center Homecoming Speaker and Marshall. 2009
- [9] Auburn University Robotics and Game Development Camp Coordination Assistant, 2009
- [10] Auburn University Robotics and Comp Camp Coordination Assistant and Instructor, 2009
- [11] Auburn University Engineering Day, 2009

INDEPENDENT STUDIES STUDENTS SUPERVISED

- [3] Yee Teng Chan Spring 2016
University of Maryland, Baltimore County
IS 700: Independent Study-Information Systems: Medication Management Systems for Older Adults
- [2] Hager Mohamed (M.S. Student in Information Systems)* Summer 2015, Fall 2015
University of Maryland, Baltimore County
IS 700: Independent Study-Information Systems: Medication Management Systems for Older Adults
- [1] Wajanat Rayes (Ph.D. Student in Information Systems) Spring 2015
University of Maryland, Baltimore County
HCC 801: Independent Study for Doctoral Students: Adaptive User Interfaces for Pointing for Young Adults with Intellectual Disabilities

GRADUATE STUDENTS SUPERVISED

- [4] Hwaju Chung (M.S. Student in Human-Centered Computing) Fall 2015
University of Maryland, Baltimore County
Medication Management Systems for Older Adults
- [3] Abdullah Ali (M.S. Student in Human-Centered Computing)* Fall 2014 – Summer 2016
University of Maryland, Baltimore County
Adaptive User Interfaces for Pointing

- [2] Jatin Chhikara (M.S. Student in Human-Centered Computing)* Spring 2015 – Spring 2016
 University of Maryland, Baltimore County
 Medication Management Systems for Older Adults
- [1] Adegboyega Akkinsiku (M.S. Student in Human-Centered Computing) Spring 2015
 University of Maryland, Baltimore County
 Adaptive User Interfaces for Pointing for Young Adults with Intellectual Disabilities

UNDERGRADUATE STUDENTS SUPERVISED

- [4] Casey Means (DREU Student, Human-Centered Computing) Summer 2015
 University of Maryland, Baltimore County
 Adaptive User Interfaces for Pointing
- [3] Catherine Hornback (Research Assistant)* Fall 2014 – Spring 2015
 University of Maryland, Baltimore County
 Adaptive User Interfaces for Pointing
- [2] Michael Christian (Research Assistant Human-Centered Computing) Summer 2012
 Clemson University
 Electronic Voting: Signature Verification Study
- [1] India Irish (DREU Student, Human-Centered Computing)+ Summer 2012
 Clemson University
 Electronic Voting: Signature Verification Study

* Accepted to Ph.D. program

+ Accepted to M.S. program

MEMBERSHIPS

Association for Computing Machinery (ACM)

ACM Special Interest Group in Computer Human Interaction (SIGCHI)