

Andrea E. Johnson, Ph.D.

Sr. User Experience Researcher

User Experience Innovations Lab | Intel Labs

Intel Corporation

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TEACHING STATEMENT

My teaching philosophy is derived from my experience in user research and community outreach participation. I believe that technology can be used to reach and engage students in new and interesting ways if you appeal to a student's passions. My instruction style includes the use of multimedia technology as well as interactive collaboration and brainstorming to create an inclusive and design thinking oriented lesson. The use of computers allows me to provide both independent learning and access to varietal content to leverage each individual student's interest.

EDUCATION:

2015 Clemson University, Clemson, SC

Doctor of Philosophy in Human-Centered Computing

Title: Language Matters: Interactive Plain Language Tutor for Voting Language

Advisor: Juan Gilbert

2007 Auburn University, Auburn, AL

Master of Science in Computer Science and Software Engineering

Title: Usability Size N

Advisor: Juan Gilbert

2005 Spelman College, Atlanta, GA

Bachelor of Science in Computer and Information Science

Minor: Mathematics

(Inducted into Upsilon Pi Epsilon Computer Science Honor Society)

PUBLICATIONS

Gilbert, J.E. & Johnson, A.E. (2013) A Study of Admissions Software for Achieving Diversity, *Psychology Journal*, 11, 1, pp. 67-90.

Singh, A., Johnson, A., Alnizami, H., Gilbert, J.E. (2011) The Potential Benefits of Multimodal Social Interaction on the Web for Senior Users. *Journal of Computing in Small Colleges*, Vol. 27 No. 2. pp. 135-141.

Alvarez, I., Alnizami, H., Dunbar, J., Johnson, A. Jackson, F., Gilbert, J.E. (2011) Designing Driver-centric Natural Voice User Interfaces. *In Proceedings of the 2011Third International Conference on Automotive User Interfaces and Interactive Vehicular Applications (AutomotiveUI '11)*. ACM, Salzburg, Austria, November 30 – December 2, 2011.

Seals, C.D., Rouse, K., McMillian, Y. Williams, A., Gilbert, J.E., and Chapman, R. (2008) Computer Gaming at Every Age: A Comparative Evaluation of Alice. *Journal of Educational Technology*, Vol.5 No. 3. pp. 1-8.

Gilbert, J.E., Williams, A. & Seals, C.D. (2007) Clustering for Usability Participant Selection, *Journal of Usability Studies*, Vol. 3, No. 1, pp. 41 – 53.

INVITED PRESENTATIONS

(Panel Discussion)

Johnson, A.E., **Academia vs. Industry**, National Society of Blacks in Computing, June 2017, Atlanta, GA

(Panel Discussion)

Johnson, A.E., **Mentoring**, National Society of Blacks in Computing, June 2016, Atlanta, GA

(Panel Discussion)

Johnson, A.E., **HBCU Experience**, BEAM Black Student Success Summit, March 2015, Portland State University, Portland, OR

(Panel Discussion)

Johnson, A.E., **Experiences being a Minority in Industry**, BEAM Black Student Success Summit, March 2014, Portland State University, Portland, OR

(Oral Presentation and Demo)

Johnson, A.E., **Prime III and RAAV 2013 Updates**, Election Center Special Workshop, Feb 27-Mar 3, 2013, New Orleans, LA

(Poster Presentation)

Johnson, A.E., **Building a Data Bridge: The Open Parks Grid Project**, Association

of Computer and Information Science Engineering Departments at Minority Institutions Conference '11, Clemson University, April 14-16, 2011, Clemson, SC

(Conference Presentation)

Williams, A.E., **Usability Size N**, Association of Computer and Information Science Engineering Departments at Minority Institutions Conference '07, Spelman College, February 8-10, 2007, Atlanta, GA

(Conference Presentation)

Williams, A.E., Eugene, W., Hamilton, C., **NetWorking a Conference**, African American Researchers in Computing Sciences Conference, Auburn University, July 19-21, 2006, Auburn, AL

(Conference Presentation)

Williams, A.E., **Page By Page Protocol**, 19th National Conference on Undergraduate Research, Virginia Military Institute and Washington and Lee University, April 21-23, 2005, Lexington, VA

(Conference Presentation)

Williams, A.E., **Page-By-Page Protocol (PBPP): Reading Documents in Limited Bandwidth Scenarios**, Historically Black Colleges and Universities Undergraduate Program, Southern University at New Orleans, February 10-13, 2005, New Orleans, LA

(Poster Presentation)

Williams, A.E., **Page by Page Protocol**, Spelman College Science Day, Spelman College, April 2005, Atlanta, GA

(Oral Presentation)

Williams, A.E., **Page by Page Protocol**, Spelman College Science Day, Spelman College, April 2005, Atlanta, GA

(Conference Presentation)

Williams, A.E., **Executive Assistant**, Association of Computer and Information Science Engineering Departments at Minority Institutions Conference, May 21-23, 2004, Orlando, FL

(Poster Presentation)

Williams, A.E., **Executive Assistant**, Spelman College Science Day, Spelman College, April 2004, Atlanta, GA

(Poster Presentation)

Williams, A.E., **How to Develop an Effective Software Development Team**, Spelman College Science Day, Spelman College, April 11-12, 2003, Atlanta, GA

HONORS AND AWARDS

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| 2017 | Divisional Recognition Award “There’s no I in Team Collaboration Award”, Intel Corporation |
| 2011 | Recipient of Clemson University Graduate Diversity Fellowship |
| 2010 | Recipient R C Edwards Graduate Fellowship |
| 2005-2008 | Recipient of President's Graduate Opportunities Program Scholar Fellowship |
| 2005 | 2nd place Spelman College Science Day Computer Science Oral Presentations |
| 2004 | Spelman College Alumnae Recipient of Presidential Book Scholarship |
| 2004 | GE 2nd Place Winner of Robotics Competition |
| 2004 | Spelman College Computer Science Olympiad 2nd Place Winner of Robotics Competition and 3rd Place Overall |
| 2004 | Inducted into Upsilon Pi Epsilon International Honor Society for the Computing and Information Disciplines |
| 2002-2005 | Chrysler Scholar |
| 2001-2005 | Model Institutions of Excellence Scholar |

2001-2005 Recipient of HOPE Scholarship

2001-2005 Recipient of Religious Scholarship

EXPERIENCE:

SR. UX Designer | Research Scientist (Promotion)

Intel Labs

2015 - present

- Exploratory ethnographic research to identify new technology applications, along with identification of systemic factors that might affect adoption; translation of front-end research into technology implications; collaboration on new technology ideation and design; and user testing of designs and prototypes
- Serve as research mentor providing guidance to junior team mates; evangelize grounding our UX work in design thinking and effectively bringing our stakeholders along through the process
- Serve as peer mentor creating connections for new Intel employees; helping them create integration goals and objectives to ramp up and be productive within their teams across Intel.
- Participate in STEM outreach activities to serve as technical advisor for Edison workshops; mentoring for K-12 and undergraduate/graduate students on career and life planning skills
- STEM mentor for undergraduate/graduate students

Maker | Technical Mentor (DOT Rotation)

Intel Foundation

2017 - present

- Serving as a technical mentor for the Make Tomorrow initiative to provide STEM and making access to urban and rural students in collaboration with the National Urban League.
- Creating maker projects for STEM tutors to engage students; includes project design, implementation, documentation to www.makershare.com

Rotation Engineer | User Experience Researcher

2013 – 2015

Intel

- Applying HCI skills to experience prototyping and user research methodologies

- Generation and representation of new product and service concepts in early PLC stages
- Creating usage concepts for Next Generation Interaction (NGI) project
- Executing and reporting on user research studies on NGI Project
- Contributing to UI design of NGI prototypes
- Contributing to concept diagrams and other visualization materials for NGI Project

Research Assistant

2011 - 2013

HCC Research Lab, Clemson University (Clemson, SC)

- Project Manager for PRIME III Electronic Voting Study
 - Responsible for leading and coordinating project planning and implementation
 - Met with election officials nationwide to present the results of the work and solicit feedback for future technology integration
 - Managed scheduling demos at various events and research studies with each instantiation of the project
- Joint Project Leader for Cable Labs Usability Study

Research Assistant/UX Designer

2010 - 2013

Clemson University Libraries (Clemson, SC)

- Conducted several usability studies for Open Parks Grid grant
- Developed apps for Open Parks Grid website
- Conducted studies on the usability of Clemson Library's website

Lead Software Tester

2009 – 2010

AFLAC (Columbus, GA)

- Worked with developers and other software testers to process and validate electronic applications before elevating to production
- Supervised and tracked team productivity and effectiveness
- Managed my team's daily workload and ensured high priority issues and products were completed by deadline
- Trained new employees on the verification and validation process
- Worked with help desk staff to resolve mainframe system issues
- Assisted other system software developers in various special projects outside of the SYST project domain

- Created production reports based on the product elevations and future product releases

Research Assistant

2005 – 2008

Auburn University (Auburn, AL)

- Conducted research in the areas of Human Centered Design and Usability, Spoken Language Systems, Databases and Data Analytics, and Advanced Learning Technologies
- Designed and implemented experiment methodologies
- Communicated experiment results to technical staff and in conference proceedings
- Lead and facilitated groups throughout complete lifecycle of several projects
- Assisted Department of Corrections to establish goals and needs for application development
- Developed plan for implementation of application
- Cleaned, organized, and gathered the data and requirements for the application
- Developed algorithm for data mining (Java)
- Created task scenarios and functional prototypes (Javascript) of system based on artifacts supplied by client
- Used pilot testing on prototype to evaluate effectiveness of system

MEMBERSHIPS

Society of Women Engineers

Association of Computing Machinery

Network of Intel African Americans

Women of Intel Network

Upsilon Pi Epsilon

SERVICE

2017	Saturday Academy Instructor, <i>Design Thinking for Innovation and Technology Solutions</i> , Beaverton, OR
2016-Present	Lego FIRST Robotics Coach (Middle school girls team), Portland, OR
2016	Intel Technology Day, Hillsboro, OR
2016	Career Exploration Day-Intel Makers Edison/Galileo Workshop, Technical Lead, Hillsboro, OR
2016	BEAM Black Student Success Summit, Speaker and Workshop Facilitator, Portland, OR
2016	MLK Day of Service: Intel Edison/Galileo Workshop, Technical Lead, Hillsboro, OR
2015	BEAM Black Student Success Summit, Speaker and Workshop Facilitator, Portland, OR
2012	Black Girls Code Atlanta, Mobile App Development with AppInventor, Atlanta, GA
2012	Random Hacks of Kindness: Hacking for Humanity, Atlanta, GA
2007	Camp Counselor for Camp KEMET, Auburn University, Auburn, AL
2007	Speaker at the Muscogee Elementary Career Day, Muscogee Elementary, Columbus, GA

2006-2007	Tutor at the Cary Woods Computer Club, Cary Woods Elementary School, Auburn, AL
2006-2007	Tutor and Mentor for the Tallapoosa Assistance Program, Edward Bell School, Camp Hill, AL
2006	Tutor for the ROC House School of Excellence, Auburn, AL