

**Juan E. Gilbert, Ph.D.**

Andrew Banks Family Preeminence Endowed Professor & Chair

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## **Research Statement**

My research is in Human-Centered Computing (HCC). The goal of my research is to design, implement and evaluate *innovative solutions to real world problems*. *My research integrates people, technology, information, policy, culture and more to address societal issues*. In general, Human-Centered Computing research is highly interdisciplinary and applied. My areas of specialization within HCC are Natural Interactive Systems, Advanced Learning Technologies/Intelligent Tutoring Systems, Ethnocomputing/Culturally Aware Computing and Information Technology Workforce, Human-Computer Interaction, HCC AI, Databases and Data Mining.

In Natural Interactive Systems (NIS), I am interested in creating user interfaces where the user interacts with the system using speech or multimodality. I am researching the design, implementation and the evaluation of naturally interactive systems. One of my research projects in NIS is called *Prime III*. Prime III is a secure, multimodal electronic voting system, <http://www.PrimeVotingSystem.org>. Prime III provides an easy to use multimodal user interface that allows greater participation in the electoral process. Voters that can't read, hear, have visual impairments or physical impairments, can still vote using Prime III. The Prime Voting System is a *usable security* approach to electronic voting. Another example is the texting while driving research we are doing called Voiceing™, see <http://www.VoiceTextingResearch.org> and <http://www.youtube.com/watch?v=IwVN1deb9jM>

In Advanced Learning Technologies/Intelligent Tutoring Systems, my research aims to create and study applications that employ intelligent strategies that personalize instruction. In some implementations, this involves the use of spoken language systems and Animated Pedagogical Agents (APAs). I am researching the use and impact of culturally relevant environments that use culture in the education or training environment. This is a form of Ethnocomputing (<http://en.wikipedia.org/wiki/Ethnocomputing>) or culturally aware computing. In my latest research efforts, I am researching game-like interfaces that provide naturally interactive instruction using animation, artificial intelligence, and speech. Examples of this work can be seen at <http://www.aadmlss.org>. In Ethnocomputing or Culturally Aware Computing, I am investigating the use and impact of culture in computing. Our research suggests that culture can be used to increase interest, user satisfaction and ease of use in computing applications. I am also working on information technology workforce issues. Specifically, I am investigating pedagogies and programs that broaden participation in computing for people in underrepresented groups. I am studying effective practices that help recruit, retain and graduate people from underrepresented groups in Science, Technology, Engineering and Mathematics (STEM).

In HCC AI, Databases and Data Mining, I am investigating data mining for human centered applications, e.g. applications where the data represents people, and tools that answer complex questions from business intelligence, education, and society. For example, I use clustering algorithms to process admissions applications in order to increase holistic diversity. This tool is called *Applications Quest*™, <http://www.ApplicationsQuest.com>.

## **Teaching Statement**

My teaching philosophy is derived from my research in educational technology and my work experiences. I believe that technology can be used to keep students interested in the course material. My instruction style employs the use of computers and other multimedia deliverable mediums to assist in delivering instruction. Technology allows me to deliver instruction in several different styles, which meets the demands of more students.

Areas of teaching interest include, but are not limited to:

1. Human-Computer Interaction
2. Spoken Language Systems
3. Databases and Data Mining
4. Science and Technology Policy
5. Advanced Learning Technologies
6. Ethnocomputing
7. Creative Thinking and Problem Solving

## **Education:**

- 2000      **University of Cincinnati**, Cincinnati, Ohio  
Doctor of Philosophy in Computer Science  
Title: Arthur: An Intelligent Tutoring System with Adaptive Instruction  
Advisor: Chia Y. Han
- 1995      **University of Cincinnati**, Cincinnati, Ohio  
Master of Science in Computer Science  
Title: Road Map – An Intelligent Heuristic Application  
Advisor: Raj Bhatnagar
- 1991      **Miami University**, Oxford, Ohio  
Bachelor of Science in Applied Science  
Major: Systems Analysis

**Funding (Total Funding: \$28,587,622.78- Gilbert Share: \$13,876,073.78)**

1. McMullen, K., Gilbert, J.E., Gardner-McCune, C., & Waisome, J.A.M., **Collaborative Research: Human-Centered Computing Scholars: Need-based, Extensive Support Through Degree Completion**, NSF, 3/6/2019 – 4/30/2024, \$922,495, UF Share: \$922,495.
2. Purves, D., Jenkins, R., & Gilbert, J.E., **Collaborative Research: Standard Grant: Artificial Intelligence and Predictive Policing: An Ethical Analysis**, NSF, 9/1/2019 – 8/31/2022, \$509,000, UF Share: \$269,000.
3. Gilbert, J.E., **PhDX: Talent for the 21<sup>st</sup> Century Summer Fellowship Program**, New Venture Fund Media Democracy Project, 2/18/2019 – 2/17/2020, \$10,000.
4. Gilbert, J.E., Eugene, W. & Daily, S.B., **Computing and Society Engagement (C.A.S.E.)**, The William R. Kenan, Jr. Charitable Trust, 1/15/2017 – 1/16/2020, \$1,200,000.
5. Gilbert, J.E., **PhDX: Talent for the 21<sup>st</sup> Century Summer Fellowship Program**, New Venture Fund Media Democracy Project, 5/15/2017 – 8/15/2017, \$10,000.
6. Gilbert, J.E. & Daily, S.B., **NSF INCLUDES: Consortium of Minority Doctoral Scholars (CMDS)**, NSF, 9/12/2016 – 9/11/2018, \$232,512.
7. Andujar, A., Crawford, C., Jackson, F. & Gilbert, J.E., **Brain-Computer Interface Research & Development**, Intel Corp., 8/15/2015 - 8/14/2017, \$300,000.
8. Gilbert, J.E., **Critical Human-Machine Interaction: Optimizing for Crisis Assessment and Stressful Environment**, Harris Corporation, 8/1/2015 – 7/31/2016, \$150,000.
9. Gilbert, J.E., **Accessible Voting for Everyone**, Knight Foundation, 8/24/2015 – 8/23/2016, \$35,000.
10. Gilbert, J.E. & Eugene, W., **NSF CHS: Small: Collaborative Research: Mobile Language-Based Aids for Intelligent Decisions**, NSF, 8/24/2015 – 8/23/2019, \$203,284.00.
11. Gilbert, J.E. & Smith, D., **User Experiences in Automobiles**, Intel UXR, 2/1/2014 – 1/31/2015, \$25,000.
12. Gilbert, J.E., **Voice Recognition Plugin Research**, BMW, 9/15/2013 – 12/31/2013, \$65,000.
13. Gilbert, J.E., McMullen, K., Remy, S.L., & Eugene, W., **4D Interactions for Cable Television**, CableLabs, 7/1/2013 – 6/30/2014, \$80,000.

14. Gilbert, J.E., Daily, S.B., Anderson, M., Seals, C., & Jones, E., **NSF BPC-A: Institute for African-American Mentoring in Computing Sciences (iAAMCS)**, NSF, 5/1/2013 – 4/30/2019, \$5,785,735, UF Share: \$2,741,809.
15. Gilbert, J.E., McMullen, K., & Martin, J., **User Experiences with Streaming Video, 3D Audio and Holistic Usability**, Intel IXR, 6/1/2013 – 5/31/2014, \$50,000.
16. Gilbert, J.E., **User Experiences with Streaming Video and Holistic Usability**, Intel IXR, 1/1/2013 – 12/31/2013, \$25,000.
17. Gilbert, J.E., **Juvenile Detention Alternatives Initiative (JDAI) Data Management and Reporting Website**, 1/1/2013 – 9/30/2013, \$60,000.
18. Taiber, J. & Gilbert, J.E., **Sustainable Mobility in Automobiles**, Verizon, 11/28/2012 - 11/27/2013, \$29,900.
19. Gilbert, J.E., **Voice Controls & Augmented Call Center**, BMW, 8/15/2012 – 12/31/2012, \$40,999.
20. Martin, J. & Gilbert, J.E., **Assessing Perceived Quality of Dash-Based IPTV Broadcasts: Methods and Human Factors**, CableLabs, 8/15/2012 – 8/14/2013, \$50,000.
21. Thompson, M., Gilbert, J.E., Morrison, D., **Epidemiology of Sexual Violence: A Trajectory-based Approach**, NIH, 7/1/2012 – 6/30/2013, \$128,017.
22. Gilbert, J.E., **Interface and Visual Design Research**, BMW, 3/1/2012 – 2/28/2013, \$32,000.
23. Gilbert, J.E., **Presidential Award for Excellence in Science, Mathematics and Engineering Mentoring (PAESMEM)**, NSF, (2011), \$25,000.
24. Venhovens, P., Brooks, J. & Gilbert, J.E., **2D vs. 2.5D in Automotive User Interfaces**, Ford Motor Company, 3/1/2012 – 2/28/2013, \$40,000.
25. Gilbert, J.E., **2010 Voting Technology and Accessibility Research - Accessible Voting Technology Initiative**, U.S. Election Assistance Commission, 5/23/2011 - 5/22/2014, \$4,500,000, Clemson Share: \$1,188,467.
26. Gilbert, J.E., **IDEaS (Inquiry, Discovery in Engineering and Science) Professorship**, Clemson University College of Engineering and Science, 7/1/2011 – 6/30/2012, \$20,000.

27. Gilbert, J.E., Hodges, L., & Woodard, D., **S-STEM: Human-Centered Computing Scholars: Fostering a New Generation of Underrepresented and Financially Disadvantaged Researchers**, NSF, 6/1/2011 – 5/31/2016, \$551,998.
28. Martin, J. & Gilbert, J.E., **Correlating the Perceived Quality of Networked Games to Broadband Cable Network Design Parameters**, CableLabs, 6/1/2011 – 12/31/2011, \$30,000.
29. Gilbert, J.E., **In-Vehicle Voice User Help Research**, BMW, 7/1/2011 – 7/31/2012, \$46,550.
30. Gilbert, J.E., **CI Fellows Postdoc**, Computing Research Association, 9/14/2010 – 9/13/2011, \$127,500.
31. Camp, T., Gilbert, J.E., Khuller, S., & Goldsmith, J. **Collaborative Research: Broader Impacts for Research and Discovery Summit**, NSF, 4/14/2010 - 4/15/2012, \$510,605, Clemson Share: \$137,927.
32. Gilbert, J.E., **BPC-AE: Collaborative Research: Strengthening and Expanding the Empowering Leadership Alliance**, NSF, 02/04/2010 – 01/31/2012, \$923,786.00, Clemson Share: \$51,998.
33. Gilbert, J.E., **CI Fellows Postdoc**, Computing Research Association, 9/7/2009 – 9/6/2010, \$140,000.
34. Dozier, G., Jackson, J., Biggers, M., Gilbert, J.E., & Moore, L., **NSF BPC-AE: Collaborative Research: The Alliance for the Advancement of African-American Researcher in Computing (A4RC)**, NSF, 09/01/2009 – 08/31/2011, \$1,498,076.00, Clemson Share: \$154,092.
35. Gilbert, J.E. (PI), Chattaraman, V. & Kwon, W., **NSF HCC: Small: Conversational Agents in Web-Based Consumer Environments Designed for Older Users**, NSF, 08/15/2009 – 8/14/2012, \$583,814, Clemson Share: \$258,815.
36. Gilbert, J.E. (PI) & Seals, C.D., **NSF Collaborative Research: BPC-DP: African-American Researchers in Computing Sciences (AARCS)**, NSF, 12/1/2008 – 5/1/2010, \$215,952, AU Share: \$128,450.
37. Gilbert, J.E., **NSF BPC-DP: Incorporating Cultural Tools for Math and Computing Concepts into the Boys and Girls Clubs of America**, NSF, 12/1/2008 – 11/30/2011, \$190,516, AU Share: \$198,516.
38. Gilbert, J.E. **Everyone Counts: Voice User Interface Demonstration Prototype**, Everyone Counts, Inc., 7/2008 – 8/2008, \$4,088.

39. Chattaraman, V. (PI), Gilbert, J.E., & Kwon, W. **Bridging the Digital Divide to Enhance Internet Technology Use among the Elderly**, Auburn University Outreach Scholarship Grant, 5/2008 – 5/2009, \$10,000.
40. Gilbert, J.E. **Accessibility in Online Electronic Voting**, Everyone Counts, Inc., 1/2008 – 7/2008, \$15,000.
41. Watts, I.E. (PI) & Gilbert, J.E., **Tallapoosa Assistance Program (TAP)**, State of Alabama - Tallapoosa County, 10/1/2007 – 9/30/2008, \$28,289.
42. Gilbert, J.E., **Total System Services Inc. Distinguished Professorship**, Total System Services Inc. Gift, 10/1/2007 – 10/1/2008, \$100,000.
43. Hamilton, J.A., Chang, K. Dozier, G., Wang, Y. & Gilbert, J.E., **NSF #0621307 SFS: Scholarship Partnership with Alabama State University and Tuskegee University**. NSF, 9/1/2006 – 9/1/2009, \$1,500,000.
44. Gilbert, J.E., **Implementation and User Evaluation of “Everyone Counts Online Electronic Voting System”**, Everyone Counts Inc., 1/1/2008 – 4/1/2008, \$15,000.
45. Gilbert, J.E., **NSF IIS HCC: Prime III: Studying Usability & Security in Electronic Voting for Everyone**, NSF, 5/15/2007 – 8/15/2008, \$93,056.
46. Gilbert, J.E., **Total System Services Inc. Distinguished Professorship**, Total System Services Inc. Gift, 10/1/2006 – 10/1/2007, \$100,000.
47. Gilbert, J.E., **Microsoft Research External Research Fund**, Microsoft Corporation Research Gift, 6/1/2006 – 12/1/2007, \$5,000.
48. Gilbert, J.E. **Auburn University Outreach Scholarship Grant**, 8/2006 – 8/2007, \$14,000.
49. Gilbert, J.E. (PI), Seals, C.D., Dozier, G.V. & Jackson, J.F.L., **NSF BPC-DP: African-American Researchers in Computing Sciences (AARCS)**, NSF, 3/1/2006 – 3/1/2009, \$421,288, AU Share: \$330,473.
50. Dahlberg, T. (PI), Barnes, T. (CoPI), Seals, C.D., Gilbert, J.E. (Senior Personnel), et. al., **NSF BPC-A: The STARS Alliance: A Southeastern Partnership for Diverse Participation in Computing**, NSF, 3/1/2006 – 3/1/2009, \$2,228,640, AU Share: \$235,075.
51. Gilbert, J.E. (PI), **Producers Cattle Auction: Online Auction**, Producers Cattle Auction, 2/15/2006 – 5/15/2006, \$2,909.78.

52. Gilbert, J.E. (PI), **Producers Cattle Auction: Online Auction**, Producers Cattle Auction, 1/1/2004 – 10/1/2005, \$12,225.
53. Watts, I.E. (PI) & Gilbert, J.E., **Tallapoosa Assistance Program (TAP)**, State of Alabama - Tallapoosa County, 1/10/2005 – 1/10/2006, \$30,273.
54. Gilbert, J.E. (PI) & Chapman, R., **E-Citation Usability Study**, University of Alabama, 6/2004 – 12/2004, \$25,000.
55. Gilbert, J.E. (PI) & Dozier, G. V., **Distributed Data Mining**, Auburn University Internet2 Research, 6/2004 – 7/2005, \$6,000.
56. Gilbert, J.E. (PI), Flowers, L., Moore, J.L. & Watford, B., **NSF ITWF: Scholars of the Future: An Implementation Model for Increasing Diversity in Information Technology #0420485**, NSF, 9/15/2004 - 9/15/2008, \$754,983, AU Share: \$549,731.
57. Gilbert, J.E. **Auburn University Competitive Research Grant**, 5/2003 – 5/2004, \$3,000.
58. Gilbert, J.E. **Auburn University Internet2 Equipment Research Grant**, 6/2003 – 6/2004, \$8,000.
59. Watts, I.E. (PI) & Gilbert, J.E., **Tallapoosa Assistance Program (TAP)**, State of Alabama - Tallapoosa County, 11/1/2003 – 10/1/2004, \$29,572.
60. Gilbert, J.E., **Mobile and Pervasive User Interfaces for Information Retrieval**, Auburn University - Competitive Research Grant, 5/2003-5/2004, \$3,000.
61. Chapman, R. (PI) & Gilbert, J.E., **VLETS Fieldable Phone System**, University of Alabama Subcontract, 5/2003 – 9/2003, \$39,471.
62. Chang, K. (PI), Biaz, S., Chapman, R., Gilbert, J.E., & Lee, C., **Graduate Fellowships in Wireless Technologies**, U.S. Department of Education Graduate Assistance in Areas of Need (GAANN), 9/2003 – 9/2006, \$393,552.
63. Gilbert, J.E. **NSF Graduate Research Fellowship**, 1/2003 – 9/2003, \$18,544.
64. Gilbert, J.E. (PI), **Summer Technology Outreach Grant II**, Auburn University, 5/2004 – 9/2004, \$16,000.
65. Gilbert, J.E. (PI), **Summer Technology Outreach Grant**, Auburn University, 5/2003 – 9/2003, \$35,231.



66. Watts, I.E. (PI) & Gilbert, J.E., **Tallapoosa Assistance Program (TAP)**, State of Alabama - Tallapoosa County, 1/1/2003 – 10/1/2003, \$60,818.
67. Brewer, J.W. (PI) & Gilbert, J.E., **Distance Learning and Outreach Technology, Auburn University Distance Learning and Outreach Office, 2/1/2002 – 8/1/2002, \$10,000.**
68. Chapman, R., Chang, K., & Gilbert, J.E., **Voice Interface for Wireless Law Enforcement Systems**, University of Alabama, 10/2002 – 5/2003, \$20,000.
69. York, B. (PI), Ellis, C., Gilbert, J.E., Giles, R. & Taylor, V., **NSF-ITR: New Approaches to Human Capital Development through Information Technology Research #0296169**, NSF, 9/2000 - 8/2005, \$3,188,944, AU Share: \$363,437.

### **Journal Publications**

1. Brinkley, J., Posadas, B., Sherman, I., Daily, S.B. & Gilbert, J.E. (2019) **An Open Road Evaluation of a Self-Driving Vehicle Human–Machine Interface Designed for Visually Impaired Users**, International Journal of Human–Computer Interaction, DOI: 10.1080/10447318.2018.1561787
2. Brinkley, J., Daily, S. B. & Gilbert, J. E. (2019). **Implementing the ATLAS Self-Driving Vehicle Voice User Interface**. Journal on Technology and Persons with Disabilities 7, pp. 133-140.
3. Brinkley, J., Daily, S. B. & Gilbert, J. E. (2019). **A Policy Proposal to Support Self-Driving Vehicle Accessibility**. Journal on Technology and Persons with Disabilities 7, pp. 35-43.
4. Darville, G., Anderson- Lewis, C., Stellefson, M., Lee, Y., MacInnes, J., Pigg, R.M., Gilbert, J.E., and Thomas, S. (2018). **Customization of Avatars in a HPV Digital Gaming Intervention for College-Age Males: An Experimental Study, Simulation & Gaming**, Simulation & Gaming, 49(5), 515- 537. doi: 10.1177/1046878118799472
5. Chattaraman, V., Kwon, W., Gilbert, J.E., & Ross, K. (2018). **Should AI-Based, Conversational Digital Assistants Employ Social- or Task-Oriented Interaction Style? A Task-Competency and Reciprocity Perspective for Older Adults**, Computers in Human Behavior, pp. 1-16, <https://doi.org/10.1016/j.chb.2018.08.048>
6. Brinkley, J., Daily, S. B. & Gilbert, J. E. (2018). **A Survey Of Visually Impaired Consumers About Self-Driving Vehicles**. Journal on Technology and Persons with Disabilities. Volume 6, pp. 273-282.

7. Jackson, J.F.L., Charleston, L.J., Lewis, C.W., Gilbert, J.E., Parrish, W.P. (2017). **Arizona's Rising STEM Occupational Demands and Declining Participation in the Scientific Workforce: An Examination of Attitudes among African Americans toward STEM College Majors and Careers**, *Texas Education Review*, 5, 2, pp. 91-111.
8. Comedy, Y.L., Gilbert, J.E., & Pun, S.H. (2017). **Invention Is not an Option**. *Technology and Innovation, Journal of the National Academy of Inventors*, 18, 4, pp. 267-274.
9. Thomas, S. V. & Gilbert, J. E. (2016). **Integrating Technology to Enhance Athlete Development: A Literature Review**. *Journal of Higher Education Athletics and Innovation*, 1, 1, pp. 73-84.
10. Gosha, K., Gilbert, J.E., & Middlebrook, K., (2016). **A Qualitative Analysis of Using a Virtual Mentoring Program on Black Computer Science Students**, *International Journal of Education and Human Developments*, 2, 1, pp. 33-41.
11. Gosha, K., Gilbert, J.E., & Middlebrook, K. (2015). **Virtual Graduate School Mentoring Using Embodied Conversational Agents**, *Journal of Computer Science and Information Technology*, 3, 2, pp. 15-38, DOI: 10.15640/jcsit.v3n2a2.
12. Andujar, M., Crawford, C. S., Nijholt, A., Jackson, F., & Gilbert, J. E. (2015). **Artistic brain-computer interfaces: the expression and stimulation of the user's affective state**. *Brain-Computer Interfaces*, 2(2-3), pp. 60–69, <http://dx.doi.org/10.1080/2326263X.2015.1104613>.
13. Dillon, E.C., Gilbert, J.E., Jackson, J.F.L., & Charleston, L.J., (2015). **Expanding the Pipeline, The State of African-Americans in Computer Science: The Need to Increase Representation**, *Computing Research News*, September 2015, 27,8, pp. 2-6.
14. Alvarez, I., Alnizami, H., Dunbar, J., Jackson, F., & Gilbert, J.E., (2015) **Help on the road: Effects of vehicle manual consultation in driving performance across modalities**, *International Journal of Human-Computer Studies*, 73, pp. 19-29, ISSN 1071-5819, <http://dx.doi.org/10.1016/j.ijhcs.2014.07.001>
15. Martin-Hammond, A.M., Abegaz, T., & Gilbert, J.E., (2015). **Designing an Over-the-Counter Consumer Decision-Making Tool for Older Adults**, *Journal of Biomedical Informatics*, 57, pp. 113 – 123. DOI: 10.1016/j.jbi.2015.07.006
16. Gilbert, J.E., Jackson, J.F.L., Dillon, E.C. & Charleston, L.J., (2015). **Broadening Participation: African-Americans in the U.S. Computing Sciences Workforce**, *Communications of the ACM*, 58, 7, pp. 35-38.

17. Charleston, L.J., Jackson, J.F.L., & Gilbert, J.E. (2014). **Preparing the Next Generation of African American Computing Science Faculty: A Response to the Obama Administration's Scientific Workforce Priorities**, in E.M. Zamani-Gallaher (ed.) *The Obama Administration and Educational Reform* (Advances in Education in Diverse Communities: Research, Policy and Praxis, Volume 10) Emerald Group Publishing Limited, pp. 205 – 222. DOI: 10.1108/S1479-358X20130000010010
18. Chattaraman, V., Kwon, W.S., Gilbert, J. E., & Li, S. (2014). **Virtual Shopping Agents: Persona Effects for Older Users**. *Journal of Research in Interactive Marketing*, 8,2, pp. 144-162.
19. Jackson, J.F.L., Charleston, L.J., & Gilbert, J.E., (2014). **The Use of Regional Data Collection to Inform University Led Initiatives: The Case of a STEM Education SWOT Analysis**, *Journal of STEM Education*, 15, 1, pp. 11-19.
20. Charleston, L.J., Gilbert, J.E., Escobar, B., & Jackson, J.F.L. (2014). **Creating a Pipeline for African American Computing Science Faculty: An Innovative Faculty/Research Mentoring Program Model**, *The Journal of Faculty Development*, 28, 1, pp. 85-92.
21. Gilbert, J.E., Dunbar, J., Ottley, A., & Smotherman, J.M. (2013). **Anomaly detection in electronic voting systems**. *Information Design Journal*, 20, 3, pp. 194-206.
22. Eglash, R., Gilbert, J.E., & Foster, E., (2013). **Toward Culturally Responsive Computing Education**, *Communications of the ACM*, 56, 7, pp. 33-36.
23. Gilbert, J.E. & Johnson, A.E., (2013). **A Study of Admissions Software for Achieving Diversity**, *Psychology Journal*, 11, 1, pp. 67-90.
24. Jackson, J.F.L., Charleston, L. J., Gilbert, J.E., & Seals, C., (2013) **Changing Attitudes About Computing Science at Historically Black Colleges and Universities: Benefits of an Intervention Program Designed for Undergraduates**, *Journal of African American Studies*, 17, 2, pp. 162-173.
25. Ekandem, J.I., Davis, T.A., Alvarez, I., James, M.T., & Gilbert, J.E., (2013) **Evaluating the Ergonomics of BCI Devices for Research and Experimentation**, *Ergonomics*, 55, 5, 592-598.
26. Chattaraman, V., Kwon, W.S., & Gilbert, J. E. (2013). **Internet use and perceived impact on quality of life among older adults: A phenomenological investigation**. *The International Journal of Health, Wellness, and Society*, 2 (3), 1-13.
27. Gilbert, J.E., Martin, A.M., Rogers, G., McClendon, J., & Ekandem, J. (2012) **Hey, That's Not Who I Voted For! A Study on Touchscreen Ballot Design**, *ACM Interactions*, 19, 6, pp. 34-39.

28. Shim, S., Kwon, W.-S., Chattaraman, V., & Gilbert, J. E. (2012). **Virtual sales associates for mature consumers: Technical and social support in e-retail service interactions.** *Clothing and Textiles Research Journal*, 30(3), 232-248, Doi: 10.1177/0887302X12456903
29. Collins, S.N., Deer, C.J., & Gilbert, J.E. (2012) **Chemistry and Hip Hop: Outreach Efforts to Attract Minority Students to the Chemical Sciences,** *The Chemical Educator*, ISSN: 1430-4171, 17, 12, 175-178.
30. Chattaraman, V., Kwon, W.S., & Gilbert, J. E. (2012) **Virtual agents in retail websites: Benefits of simulated social interaction for older users,** *Computers in Human Behavior*, Doi: 10.1016/j.chb.2012.06.009.
31. Goggin, S., Byrne, M., & Gilbert, J.E., (2012) **Post-Election Auditing: Effects of Election Procedure and Ballot Type on Manual Counting Accuracy, Efficiency, and Auditor Satisfaction and Confidence.** *Election Law Journal: Rules, Politics, and Policy*, 11, 1, (March 2012), pp. 36-51.
32. Chattaraman, V., Kwon, W.-S., Gilbert, J. E., & Shim, S. I. (2011). **Virtual agents in e-commerce: Representational characteristics for seniors.** *Journal of Research in Interactive Marketing*, 5,4, 276-297.
33. Singh, A., Johnson, A., Alnizami, H. & Gilbert, J.E., (2011) **The potential benefits of multi\_modal social interaction on the web for senior users.** *The Journal of Computing Sciences in Colleges*, 27, 2 (December 2011), pp. 135-141.
34. Williams, P.K., Soares, C.V., & Gilbert, J.E., (2012) **A Clustering Rule Based Approach for Classification Problems,** *International Journal of Data Warehousing and Mining*, 8, 1, pp. 1-23, Doi: 10.4018/jdwm.2012010101.
35. Jackson, J.F.L., Charleston, L.J., Gilbert, J.E., & Seals, C., (2011) **Changing Attitudes About Computing Science at Historically Black Colleges and Universities: Benefits of an Intervention Program Designed for Undergraduates.** *Journal of African American Studies*, pp. 1-12, Doi: 10.1007/s12111-011-9189-7.
36. Thornton, D. & Gilbert, J.E. (2011) **Investigating Player Behavior and Experience in Speech-Enabled Multimodal Video Games.** *The International Journal of Technology, Knowledge and Society*, 7,1, pp. 165-178.
37. Gilbert, J.E., McMillian, Y., Rouse, K., Williams, P., Rogers, G., McClendon, J., Mitchell, W., Gupta, P., Mkpogon-Ruffin, I. & Cross, E.V. (2010) **Universal Access in e-Voting for the Blind.** *Universal Access in the Information Society Journal*, 9,4, pp. 357-365.

38. Gilbert, J.E., Martin, A.M., Eugene, W., Alnizami, H., Moses, W. & Morrison, D. (2010) **Driving Transportation Policy through Technological Innovation.** *ACM Interactions*, 17, 4, pp. 42-48.
39. Dawkins, S. & Gilbert, J.E., (2010) **Accessible, Private, and Independent Voting: The Prime III Voting System.** *User Experience*, 9, 2, pp. 16.
40. George, M.S., Soares, C.V., & Gilbert, J.E., (2009) **Combating Ethical Issues in University Admissions Using Technology.** *i-manager's Journal of Educational Technology*, 6,3, pp. 58-63.
41. Gilbert, J.E., Eugene, W., Arbuthnot, K., Hood, S., Grant, M.M., West, M.L. & Swanier, C. (2009) **Culturally Relevant Game Design: A Case Study for Designing Interactive Algebra Lessons for Urban Youth.** *i-manager's Journal of Educational Technology*, 5,3, pp. 54-60.
42. Seals, C., Rouse, K., McMillian, Y., Williams, A., Gilbert, J.E., and Chapman, R. (2009) **Computer Gaming at Every Age: A Comparative Evaluation of Alice,** *i-manager's Journal of Educational Technology.*, 5,3, pp. 1-8.
43. Williams, A., Rouse, K., Seals, C.D., & Gilbert, J.E. (2009) **Enhancing Reading Literacy in Elementary Children using Programming for Scientific Simulations.** *International Journal on E-Learning*, 8,1, pp. 57-69.
44. Gilbert, J.E., MacDonald, J., Hill, R., Sanders, D., Mkpog-Ruffin, I., Cross, E.V., Rouse, K., McClendon, J., & Rogers, G. (2008) **Prime III: Defense-in-Depth Approach to Electronic Voting.** *Journal of Information Security and Privacy*, 4,3, pp. 16 – 35.
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## **Patents and Patent Applications**

1. Gilbert, J.E. “Nominal Population Metric: Clustering of Nominal Application Attributes,” US 8,612,176 B2, December 17, 2013.

## **Expert Testimony**

1. Gilbert, J.E. *National Federation of the Blind v. Lamone*, No. 14-1631, 2014 WL 4388342, (D. Md. September 4, 2014). Voting Systems Expert Testimony.

## **Invited Talks/Keynotes**

1. (Keynote)  
Gilbert, J.E., **Innovations in Elections Technology: Securing American Democracy**, Florida Tech & Innovation Summit 2019, Orlando, FL, September 25, 2019.
2. Gilbert, J.E., **A Scholar’s Manifesto: Societal Impacts Through Research and Diversity**, Distinguished Research Excellence Speaker, Syracuse University, Syracuse, NY, April 24, 2019.

3. Gilbert, J.E., **Against the Odds: A Story of Mentoring, Perseverance and Excellence**, Distinguished Scientist & Engineer Seminar Series, University of Massachusetts, Amherst, Massachusetts, April 9, 2019.
4. Gilbert, J.E., **Secure Accessible Voting in the U.S.A.**, Distinguished Scientist & Engineer Seminar Series, University of Massachusetts, Amherst, Massachusetts, April 9, 2019.
5. Gilbert, J.E., **Demystifying Graduate School for Black and Latino Men: Lessons Learned and Rules of Engagement**, Black, Brown & College Bound: Empowering Black and Latino Men in College: All Hands on Deck, Tampa, FL, March 7, 2019.
6. Alberts, B., Chu, S., Gilbert, J.E., & Ward, J. (2019), **Distinguished Kavli Frontiers of Science Alumni Panel**, 30<sup>th</sup> Kavli Frontiers of Science Symposium, Beckman Center, Irvine, CA, February 27, 2019.
7. Gilbert, J.E., Hoffman, D., & Holley, C. (2019), **Government and Technology**, 2019 Future of Florida Summit: The Bob Graham Center for Public Service, University of Florida, Gainesville, FL, February 2, 2019.
8. Gilbert, J.E. (2019), **A Scholar's Imperative: Effecting Positive Change Through Research and Diversity**, University of Michigan, Ann Arbor, MI, January 23, 2019.
9. Gilbert, J.E. (2018), **Cyber Civics: Securing the Vote for 2020**, National Academy of Sciences, Science & Entertainment Exchange, New York, NY, November 30, 2018.
10. (Keynote)  
Gilbert, J.E. (2018), **Increasing Faculty Diversity in STEM**, UNC-Chapel Hill Diversity in STEM Conference, Initiative for Maximizing Student Development, Chapel Hill, NC, November 7, 2018.
11. (Keynote)  
Gilbert, J.E. (2018), **How to Leverage Your Diversity to Add Value Today**, 2018 Black Data Processing Associates (BDPA) National Conference, New Orleans, LA, August 10, 2018.
12. Brodley, C., Gilbert, J.E., Jessup, E., & Tullsen, D. (2018), Session Chair: Haas, L. **Booming Faculty: Opportunities and Challenges**, 2018 Computing Research Association (CRA) Conference, Snowbird, UT, July 18, 2018.
13. Franklin, M., Gilbert, J.E., Noble, B., Rexford, J. & Wills, C. (2018), Session Chairs: Shekhar, S. & Torrellas J. **Improving Faculty Recruiting in the Computing Community**, 2018 Computing Research Association (CRA) Conference, Snowbird, UT, July 17, 2018.

14. Gilbert, J.E., **Changing the World through Innovations in Academic Research**, 60th Annual University of Florida Student Science Training Program (SSTP), University of Florida, Gainesville, FL, June 26, 2018.
15. Gilbert, J.E., Goldston, D., & Weaver, G., **Implications for undergraduate STEM education of changes in societal context**, National Academies of Sciences, Engineering, Medicine (NASEM) Roundtable on Systemic Change in Undergraduate STEM Education, Washington, DC, May 15, 2018.
16. Gilbert, J.E., **A Conversation on the Importance of Mentorship**, ACM SIGCHI CHI Mentoring (CHIMe), Montreal, CA, April 21, 2018.
17. Gilbert, J.E., Roth, R., Brown, D., & Mitchell, C., **Applications Quest: A Tool for Diversity**, Southern Association for College Admission Counseling (SACAC), New Orleans, LA, April 15, 2018.
18. Gilbert, J.E., **Diversity In Tech: The Pipeline Is The Solution, Not The Problem**, University of Washington, Seattle, WA, February 8, 2018.
19. (Keynote)  
Gilbert, J.E., **Take Action! Human Rights through Science and Innovation**, AAAS Science and Human Rights Coalition Meeting, Washington, DC, September 25, 2018.
20. Gilbert, J.E., **Broadening Participation in Computing: Breaking Down Barriers and Increasing Access**, Cornell University, Ithaca, NY, November 29, 2017.
21. (Keynote)  
Gilbert, J.E., **Take Action: Innovating Solutions to Society's Problems**, 5<sup>th</sup> Annual 2017 Louis Stokes Midwest Center for Excellence (LSMCE) Conference, Indianapolis, IN, October 7, 2017.
22. Gilbert, J.E., **Workforce Preparedness: Graduate Degree Benefits**, Graduate Faculty-Student Forum, Tuskegee University, Tuskegee, AL, September 30, 2017.
23. (Keynote)  
Gilbert, J.E., **Research, Diversity and Innovation: Changing the World**, The Leadership Alliance National Symposium, Hartford, CT, July 29, 2017.
24. (Keynote)  
Gilbert, J.E., **Scholar Activism: How to Positively Impact Society through Research**, Sisters of the Academy (SOTA) Black Male Research BootCamp, Tallahassee, FL, June 6, 2017.
25. Gilbert, J.E., **Societal Impacts: Diversity in Research**, 1<sup>st</sup> Annual Diversity Graduate Research Symposium, University of Florida, Gainesville, FL, March 22, 2017.

26. Gilbert, J.E., **Changing the World through Innovation & Discovery By You, For You**, Florida A&M University, Tallahassee, FL, February 2, 2017.
27. Gilbert, J.E., **The Future of Elections Technology in the U.S.A.**, University of Missouri, Columbia, MO, January 17, 2017.
28. Gilbert, J.E., **Recruitment, Development and Retention of Faculty and Students of Color in the Academy**, University of Missouri, Columbia, MO, January 17, 2017.
29. Gilbert, J.E., **Human-Centered Computing: Inventing Solutions to Societal Problems**, Cade Museum Living Inventor Series, Cade Museum for Creativity + Invention, Gainesville, FL, November 17, 2016.
30. (Keynote)  
Gilbert, J.E., **The Scholar's Imperative: Meeting the Demands of A Changing World**, 32<sup>nd</sup> Annual McKnight Fellows Meeting, Florida Education Fund, Tampa, FL, November 11, 2016.
31. (Keynote)  
Gilbert, J.E., **Innovations in Research and Discovery While Increasing Diversity**, Annual Biomedical Research Conference for Minority Students (ABRCMS), Tampa, FL, November 9, 2016.
32. Gilbert, J.E. & Kurdak, C., **Institutional Leadership Workshop to Enhance STEM Faculty Diversity Panel**, Carnegie Mellon University, Pittsburgh, PA, November 7, 2016.
33. Gilbert, J.E., **The Future of Voting in the United States: Open Source, Security, and Accessibility**, University of Texas at Dallas, Dallas, TX, September 29, 2016.
34. Gilbert, J.E., **Live Discussion: Q&A with Juan Gilbert (Public Engagement in Computer Science)**, AAAS Public Engagement with Science on Trellis, [Online], July 14, 2016.
35. Gilbert, J.E., **The Future of Elections with Open Source Accessible Voting Software**, Virginia Elections Conference, Richmond, VA, June 28, 2016.
36. Gilbert, J.E., **Accessible Voting via Open Source**, 2016 State Certification Testing of Voting Systems National Conference, MIT, Cambridge, MA, June 20, 2016.
37. Gilbert, J.E., **An Examination of Speech-Enabled Technologies in the Car**, SpeechTEK 2016, Washington, DC, May 25, 2016.
38. Gilbert, J.E., **Secure, Usable and Accessible Voting: Changing the Way America Votes**, Harvey Mudd College, Claremont, CA, April 21, 2016.

39. Gilbert, J.E., **Leadership for Excellence in Research and Diversity**, NSF Geosciences Opportunities for Leadership in Diversity (GOLD) Ideas Lab, Annapolis, MD, March 21, 2016.
40. (Keynote)  
Gilbert, J.E., **Changing the World Through Research and Service**, AAAS Emerging Researcher National Conference in STEM, Washington, DC, February 27, 2016.
41. Gilbert, J.E., **Inventing the Next Generation of Accessible Voting Technologies**, National Institute of Standards and Technology (NIST), Gaithersburg, MD, February 12, 2016.
42. (Keynote)  
Gilbert, J.E., **The Scholar's Imperative: Effecting Positive Change in a Dynamic World**, Florida Education Foundation 31<sup>st</sup> Annual McKnight Fellows Conference, Tampa, FL, November 14, 2015.
43. Gilbert, J.E., **Building Coalitions and Collaborations**, 2015 NSF Minority Faculty Development Workshop: 21<sup>st</sup> Century Mindsets and Strategies for Career Advancement, Washington, DC, September 24, 2015.
44. (Distinguished Lecture)  
Gilbert, J.E., **Reducing Driver Distraction for Young Connected Drivers with Voice Enabled Technologies**, U.S. Department of Transportation, Office of the Assistant Secretary for Research and Technology (OST-R), Washington, DC, September 16, 2015.
45. (Keynote)  
Gilbert, J.E., **Diversifying the Computing Pipeline with Extraordinary Women**, Association for Women in Science, ADVANCE|GSE Workshop, Baltimore, MD, May 31, 2015.
46. Gilbert, J.E., **Research, Development, Testing and Deployment Efforts**, 2015 State Certification Testing Of Voting Systems National Conference, Seattle, WA, May 20, 2015.
47. (Distinguished Lecture)  
Gilbert, J.E., **Mentoring, Research and Innovation**, National Security Agency (NSA), Fort Meade, MD, May 15, 2015.
48. Gilbert, J.E., **Innovations in Human-Centered Computing**, MIT Lincoln Labs, Lexington, MA, April 27, 2015.



49. (Distinguished Lecture)  
Gilbert, J.E., **Applications Quest: Decreasing Bias and Increasing Diversity in College Admissions**, Diversity Lecture Series University of South Florida, Tampa, FL, April 15, 2015.
50. (Keynote)  
Gilbert, J.E., **Prime III**, TEDxUF, Gainesville, FL, March 21, 2015.
51. (Keynote)  
Gilbert, J.E., **Next Generation Voting Technologies: Changing the Way America Votes**, University of Cincinnati, Cincinnati, OH, March 9, 2015.
52. (Keynote)  
Gilbert, J.E., **Societal Impacts through Research and Diversity: Who We Are and What We Do**, University of Florida College of Public Health & Health Professions Diversity Day, Gainesville, FL, October 23, 2014.
53. (Keynote)  
Gilbert, J.E., **Worlds Ahead through STEM Research: Your Opportunity to Make an Impact**, Florida International University McNair Scholars Research Conference, Miami, FL, October 17, 2014.
54. (Keynote Panel)  
Gilbert, J.E., **Why I Pursued a PhD and Why You Should Too**, GEM Grad Lab, University of Florida, Gainesville, FL, September 26, 2014.
55. (Keynote Panel)  
Gilbert, J.E., Karasick, M. & Meisel, W., **The Evolution of Computers and Society**, SpeechTEK 2014, New York, NY, August 20, 2014.
56. Gilbert, J.E. & Eugene, W., **The VoterPass Reservation System**, SpeechTEK 2014, New York, NY, August 19, 2014.
57. Gilbert, J.E., **Applications Quest: A New Way of Exploring Diversity in College Admissions**, 2014 Diversity Leadership Retreat, Orlando, FL, July 25, 2014.
58. (Keynote)  
Gilbert, J.E., **Societal Impacts through Research and Diversity: Who We Are and What We Do**, Diversity in the Computational Geosciences Workshop, National Center for Atmospheric Research, Boulder, CO, June 24, 2014.
59. Gilbert, J.E., **Reforming the Testing and Certification Process**, U.S. Election Assistance Commission (EAC) Roundtable Discussion, Silver Spring, MD, June 12, 2014.

60. (Keynote)  
Gilbert, J.E., **Different Pathways, One Journey: The Many Experiences of Black Graduate Students**, National Black Graduate Student Association 26<sup>th</sup> Annual Conference, Baton Rouge, LA, May 29, 2014.
61. (Keynote)  
Gilbert, J.E. **Computing Science Participation in the Age of Digital Media**, Playful Learning Summit, Clemson University, Clemson, SC, May 17, 2014.
62. Gilbert, J.E., **New Voting Technologies**, The League of Women Voters of South Carolina, State Council Meeting, Columbia, SC, April 26, 2014.
63. Gilbert, J.E., **Inspiring the Next Generation**, Congressional Black Caucus Science and Technology Brain Trust Expanding Minority Participation in Science, U.S. News and World Reports STEM Solutions Conference, Washington, DC, April 25, 2014.
64. (Keynote, Distinguished Lecture)  
Gilbert, J.E., **Changing the Landscape: Voting Rights, Technology and Policy**, University of Illinois at Chicago, Chicago, IL, April 17, 2014.
65. (Keynote)  
Gilbert, J.E., **Research with Societal Impacts from Voting Rights to School Violence**, Honors Convocation and 16<sup>th</sup> Annual Research Symposium, Fisk University, Nashville, TN, April 10, 2014.
66. (Keynote)  
Gilbert, J.E., **Research with Societal Impacts from Voting Rights to School Violence**, 16<sup>th</sup> Annual Research Symposium, Fisk University, Nashville, TN, April 9, 2014.
67. Gilbert, J.E., **Enhancing Diversity in Technology (EDIT)**, Morgan Stanley, New York, NY, April 8, 2014.
68. Gilbert, J.E., **Making A Difference in Society Through Research and Innovation**, Virginia State University, Richmond, VA, March 21, 2014.
69. Gilbert, J.E., **Innovation in Voting Accessibility**, FCC Accessibility & Innovation Initiative, Washington, DC, March 11, 2014.
70. Gilbert, J.E., **Societal Impacts of Research, Innovation and Diversity: Changing How Voting Works**, University of the Virgin Islands, St. Thomas Campus, St. Thomas, U.S. Virgin Islands, February 12, 2014.

71. (Keynote)  
Gilbert, J.E., **Can You Change the World?**, STEM Men of Color “Access to Knowledge & Empowerment” Symposium, Cornell University, Ithaca, NY, February 1, 2014.
72. Gilbert, J.E., **Prime III: Voting Accessibility and Security in the 21st Century**, University of Florida, Gainesville, FL, January 17, 2014.
73. Gilbert, J.E., **Mentoring the Next Generation of Computing Scholars**, 2014 CE21 PI and Community Meeting, Orlando, FL, January 8, 2014.
74. Gilbert, J.E., **Voicing: A Hands-Free, Eyes-Free Approach to Texting While Driving**, InnoMobility 2013, Greenville, SC, November 6, 2013.
75. Gilbert, J.E., **Creating the Entrepreneur Pipeline**, FOCUS100 DigitalUndivided, New York, NY, October 5, 2013.
76. Gilbert, J.E., **History in the Making: Innovation, Research, and Diversity**, Auburn University Black Graduate and Professional Student Association, Auburn, AL, September 30, 2013.
77. Gilbert, J.E., **Public Intellectualism: Media Interaction, Social Branding, and Knowledge**, 2013 Conference of Ford Fellows Critical Transformations and Intersections: Knowledge, Community, and Action, Washington, DC, September 27, 2013.
78. Gilbert, J.E., **Looking Ahead: Creating Opportunities for the Future**, 2013 Congressional Black Caucus Science and Technology Brain Trust, Washington, DC, September 20, 2013.
79. Gilbert, J.E., **The Future of Voting Technology**, Presidential Commission on Election Administration Testimony, Cincinnati, OH, September 19, 2013.
80. (Keynote)  
Gilbert, J.E., **Applications Quest and Strict Scrutiny in the Post Fisher Era**, 2013 Lucile Kelling Henderson Lecture, University of North Carolina at Chapel Hill, Chapel Hill, NC, September 12, 2013.
81. (Keynote)  
Gilbert, J.E., **Societal Impacts Realized Through Research and Diversity**, STARS Celebration Conference, Atlanta, GA, August 16, 2013.
82. Gilbert, J.E., **Building a House for Diversity: A Case In Point Example**, Future Faculty Symposium, Purdue University, West Lafayette, IN, August 7, 2013.

83. (Keynote)  
Gilbert, J.E., **The Future of Voting Accessibility & Security**, 2013 Alumni Conference Department of Computer Science and Software Engineering, Miami University, Oxford, OH, April 12, 2013.
84. Gilbert, J.E., **Mentoring Young Faculty to Stay and Excel in the Academy**, Tuskegee University Science and Technology Open House, Montgomery, AL, April 6, 2013.
85. Gilbert, J.E., **Accessibility Research and Elections: Where are we now?**, NIST/EAC Accessible Voting Technology Research Workshop, Gaithersburg, MD, April 1, 2013.
86. Gilbert, J.E., **Electronic Voting and Policy**, University of Georgia Science and Technology/Higher Education Forum, Athens, GA, March 26, 2013.
87. Gilbert, J.E., **Prime III: Accessibility, Security and Usability in Voting**, Oconee County Democratic Party, Seneca, SC, March 16, 2013.
88. (Keynote)  
Gilbert, J.E., **Blacks in Higher Education and Civic Responsibility: If Not You, Then Who?**, 25<sup>th</sup> Annual National Black Graduate Student Conference, Dearborn, MI, March 8, 2013.
89. (Keynote)  
Gilbert, J.E., **The Changing Face of the Academy: Mentoring**, ACM SIGCSE 2013, Denver, CO, March 7, 2013.
90. Gilbert, J.E., **Academics and Technologists Look at the Future**, NIST/EAC Future of Voting Systems Symposium, Gaithersburg, MD, February 28, 2013.
91. Gilbert, J.E., **Accessibility and Voting**, Protection and Advocacy for People with Disabilities, Inc., Columbia, SC, January 23, 2013.
92. (Keynote)  
Gilbert, J.E., **Technology and It's Role in Civic Engagement**, Rho Delta Lambda Chapter of Alpha Phi Alpha Fraternity, Inc. Annual Martin Luther King, Jr. Memorial Celebration, Anderson, SC, January 19, 2013.
93. Gilbert, J.E., **Universal Design in Electronic Voting: Making Voting More Accessible and Secure**, Purdue University, West Lafayette, IN, October 29, 2012.
94. Gilbert, J.E., **Achieving Historical Diversity: Steps Toward Building a High Quality, Diverse Computing Department**, Purdue University, West Lafayette, IN, October 29, 2012.

95. Gilbert, J.E., **Human-Centered Computing**, Albany State University, Albany, GA, September 27, 2012.
96. Gilbert, J.E., **Best Practices for Veterans Voting: Examining Election Operations, Procedures and Accessibility**, U.S. Election Assistance Commission Roundtable, Washington, DC, September 13, 2012.
97. Gilbert, J.E., **Black Males and STEM**, Challenging the Status Quo: A Forum on Educational Equity and Inclusion for School-Age Black Males, The Congressional Black Caucus Foundation, The Urban Education Collaborative at UNC Charlotte and The Howard University School of Education, Charlotte, NC, September 5, 2012.
98. Gilbert, J.E., **Using Speech to Reduce Distracted Driving**, InnoMobility, Greenville, SC, July 19, 2012.
99. Gilbert, J.E., **Human Factors in Healthcare**, CableLabs Inc., Broomfield, CO, July 18, 2012.
100. (Keynote)  
Gilbert, J.E., **Achieving Social Justice in Affirmative Action through Technology**, Technoscience as Activism, Rensselaer Polytechnic Institute, Troy, NY, June 27, 2012.
101. Gilbert, J.E., **Conversation Design for Spoken Language Systems**, i3 iSchool Inclusion Institute of Information Sciences, University of Pittsburgh, Pittsburgh, PA, June 7, 2012.
102. (Keynote)  
Gilbert, J.E., **Trailblazers for the Next Generation**, Booker T. Washington Community Center 78<sup>th</sup> Annual Awards Dinner, Hamilton, OH, April 28, 2012.
103. Gilbert, J.E., **Advanced Learning Technologies and Culturally Relevant Computing**, University of Wisconsin-Madison, Madison, WI, April 20, 2012.
104. Gilbert, J.E., **Broadening Participation in Computing: Breaking Down Stereotypes of Underrepresented Students in the Computational Fields**, University of Wisconsin-Madison, Madison, WI, April 20, 2012.
105. Gilbert, J.E., **Applications Quest: A Data Mining Approach to Diversity in Admissions**, University of Wisconsin-Madison, Madison, WI, April 20, 2012.
106. Gilbert, J.E., **Driver Distraction for Young Connected Drivers**, University of Wisconsin-Madison, Madison, WI, April 19, 2012.
107. (Keynote)  
Gilbert, J.E., **Socially Inspired Computing: How Science & Technology Can Change the World!** Benedict College, Columbia, SC, April 3, 2012.

108. Gilbert, J.E., **One Machine, One Vote for Everyone**, TEDx Greenville, Greenville, SC, March 30, 2012.
109. Gilbert, J.E., **Changing the Landscape of Voting and Voter Registration through Universal Design**, University of Maryland Baltimore County (UMBC), Baltimore, MD, March 28, 2012.
110. Gilbert, J.E., **Innovations Promoting Older Adult Use of Technology**, 8th Annual Aging Research Day Aging: From Cell to Society, Greenville Hospital System University Medical Center, Greenville, SC, March 9, 2012.
111. Gilbert, J.E., **Revolutionized Teaching**, TEDxGreenvilleSalon, Greenville, SC, February 29, 2012.
112. (Keynote)  
Gilbert, J.E., **Innovation, Mentoring and Society: How One Person Can Make A Difference**, Racial Legacies & Learning XXVII: How To Talk About Race, Miami University Hamilton, Hamilton, OH, February 14, 2012.
113. Gilbert, J.E. & Martinez, D.W., **The Critical Role of Mentoring in Increasing Graduates and Faculty of Color**, Association of American Colleges & Universities Annual Meeting, Washington, DC, January 27, 2012.
114. Gilbert, J.E., **Reducing Driver Distraction for Young Connected Drivers**, Nuance Automotive Forum Detroit 2011, Detroit, MI, November 8, 2011.
115. Gilbert, J.E., **Universal Design in Electronic Voting: One Machine, One Vote for Everyone**, Iowa State University, Ames, IA, October 28, 2011.
116. Gilbert, J.E., **Effective Mentoring**, Southern Region Education Board, Institute on Teaching and Mentoring Junior Faculty Development Conference, Atlanta, GA, October 22, 2011.
117. (Franklin Visiting Scholar Lecture)  
Gilbert, J.E., **Increasing the Accessibility of Voting through Universal Design**, University of Georgia, Athens, GA, October 17, 2011.
118. Gilbert, J.E., **Powering the Connected Car with Voice**, SpeechTEK 2011, New York, NY, August 8, 2011.
119. Gilbert, J.E., **Preparing for the Academic Job Market**, Empowering Leadership Alliance, Webinar, June 2, 2011.

120. (Anne Margaret Johnstone Lecture)  
Gilbert, J.E., **Prime III: A Universally Designed Electronic Voting System**, University of Maine, Orono, ME, April 18, 2011.
121. Gilbert, J.E., **The African-American Distributed Multiple Learning Styles System: An Ethnocomputing Approach to Teach Algebra**, Morehouse College, Atlanta, GA, March 1, 2011.
122. (Keynote)  
Gilbert, J.E., **Courageous Conversations: Taking it to the Next Level with African-American and Latino Males**, Black, Brown & College Bound: Meeting the Challenge of Higher Education, Tampa, FL, February 24, 2011.
123. (Keynote)  
Gilbert, J.E., **Holistic Usability Measure: A Holistic Approach to Measuring Interface Usability**, Greenville Spartanburg Anderson Technology Council (GSATC), Greenville, SC, February 9, 2011.
124. (Keynote)  
Gilbert, J.E., **African-American Distributed Multiple Learning Styles Systems: Culturally Relevant Learning**, South Carolina Council for African American Studies (SCCAAS) Conference, Columbia, SC, February 5, 2011.
125. Gilbert, J.E., **Innovations in Research through Human-Centered Computing**, Langston University, Langston, OK, November 18, 2010.
126. Gilbert, J.E., **Prime III: The Next Generation of Electronic Voting Research**, IEEE Oklahoma City Section, Oklahoma City, OK, November 17, 2010.
127. (Keynote)  
Gilbert, J.E., **voiceTEXT: A Safer Alternative to Texting While Driving**, Consortium for Computing Sciences in Colleges – Southeastern Region, Spelman College, Atlanta, GA, November 12, 2010.
128. Gilbert, J.E., **The Need to Examine and Address the Current Status of Minority Males in Higher Education**, Southern Region Education Board, Institute on Teaching and Mentoring, Tampa, FL, October 29, 2010.
129. (Keynote)  
Gilbert, J.E., **Creating Critical Mass: Recruiting and Mentoring a Diverse Research Group**, Colorado School of Mines, Golden, CO, October 28, 2010.
130. Gilbert, J.E., **Using Technology to Achieve Diversity: A New Strategy for Affirmative Action**, Colorado School of Mines, Golden, CO, October 28, 2010.

131. Gilbert, J.E., **Entrepreneurship & the Professoriate**, Colorado School of Mines, Golden, CO, October 28, 2010.
132. Gilbert, J.E., **Hip-Hop, Video Games and Math**. USA Science & Engineering Festival, Meet the Scientists! Washington, DC, October 23, 2010.
133. (Keynote)  
Gilbert, J.E., **Pathways to Success through Innovative STEM Research in Human-Centered Computing**, Louis Stokes South Carolina Alliance for Minority Participation Annual Undergraduate Research Conference, Orangeburg, SC, October 15, 2010.
134. Gilbert, J.E., **Human-Centered Computing: People, Technology, Information and Policy**, Johnson C. Smith University Lyceum Series, Charlotte, NC, September 30, 2010.
135. Gilbert, J.E., **Universal Design in Electronic Voting: 1 Machine, 1 Vote for Everyone**, University of North Carolina at Chapel Hill, Chapel Hill, NC, September 24, 2010.
136. Gilbert, J.E., **Why Should You Go to Graduate School?**, North Carolina A&T University, Greensboro, NC, September 23, 2010.
137. (Keynote)  
Gilbert, J.E., **Entrepreneurship and the Professoriate: Yes, Professors are Entrepreneurs Too**, STARS Alliance 5<sup>th</sup> Annual Celebration 2010, ChampionsGate, FL, August 8, 2010.
138. Gilbert, J.E., **Accessible Voting**. U.S. Election Assistance Commission, Washington, DC, August 5, 2010.
139. Gilbert, J.E., **Alphanumeric Recognition of License Tag Data**, SpeechTEK 2010, New York, NY, August 2, 2010.
140. Gilbert, J.E., **TeachEHR: Who's Training the Clinical Workforce?**, Usability in Health IT: Technical Strategy, Research, and Implementation Roundtable, National Institute of Standards and Technology, Gaithersburg, MD, July 13, 2010.
141. Gilbert, J.E., **VoiceTEXT vs. Voice to Text**, York One Academy, York, SC, May 25, 2010.
142. Gilbert, J.E., **Tenure and Promotion: Rules of Engagement**, South East Alliance for Graduate Education and the Professoriate, Atlanta, GA, May 18, 2010.
143. Gilbert, J.E., **Texting While Driving: Is There A Safe Alternative?**, Colorado School of Mines, Golden, CO, May 3, 2010.



144. Gilbert, J.E., **Driver Distraction**, Networked Vehicle Association Conference: Apps on Wheels, Stanford University, San Joses, CA, April 28, 2010.
145. Gilbert, J.E., **Publishing for Success**, NSF Minority Faculty Development Workshop, Massachusetts Institute of Technology, Cambridge, MA, March 23, 2010.
146. Gilbert, J.E., **Broadening Participation in Computing: Service or Research?**, University of North Carolina at Charlotte, Charlotte, NC, March 19, 2010.
147. Gilbert, J.E., **Prime III: Universal Design Research in Electronic Voting**, Georgia Institute of Technology, Gvu Brownbag Lecture Series, Atlanta, GA, March 11, 2010.
148. Gilbert, J.E., **Human Centered Computing and Technology Innovation**, Norfolk State University, Norfolk, VA, January 29, 2010.
149. Gilbert, J.E., **Socially Inspired Computing and Innovation: Solving National Problems**, Hampton University, Hampton, VA, January 28, 2010.
150. Gilbert, J.E. & Jackson, J.F.L., **Broadening Participation in Computing**, 8<sup>th</sup> National Conference on Black Student Achievement, Clemson University, Clemson, SC, January 25, 2010.
151. Gilbert, J.E., **Accessible Voting with Prime III**, San Francisco Voting System Task Force, San Francisco, CA, January 15, 2010.
152. Gilbert, J.E., **Incorporating Universal Design Principles into Electronic Voting**, University of Washington, Seattle, WA, November 10, 2009.
153. Gilbert, J.E., **Diversity Redefined in the New Affirmative Action Era**, University of Washington, Seattle, WA, November 10, 2009.
154. Gilbert, J.E., **The Need to Examine and Address the Current Status of Minority Males in Higher Education**, The COMPACT for FACULTY DIVERSITY, 2009 Institute on Teaching and Mentoring, Arlington, VA, October 23, 2009.
155. Gilbert, J.E., **Why Should You Go To Graduate School?**, Tuskegee University, Tuskegee, AL, October 21, 2009.
156. Gilbert, J.E., **Navigating the Academy for Career, Leadership and Community**, 2009 Conference of Ford Fellows, Beckman Center, National Academies, October 16, 2009.
157. Gilbert, J.E., **Tradeoffs in Electronic E2E Voting Systems**, National Institute of Standards and Technology Workshop on End-to-End Voting Systems, George Washington University, Washington, DC, October 14, 2009.

158. Gilbert, J.E., **Affirmative Action Redefined through Technology**, Kean University, Union, NJ, October 5, 2009.
159. Gilbert, J.E., **Incorporating Universal Design Principles in Electronic Voting**, Lamar University, Beaumont, TX, September 25, 2009.
160. Gilbert, J.E., **Issues in STEM Competitiveness: The Impact of Underrepresentation in Computing Sciences on the African-American Community and the Nation**, Colgate University, Hamilton, NY, September 18, 2009.
161. Gilbert, J.E., **Standards, Security and Accessible Voting**. National Institute of Standards and Technology, Gaithersburg, MD, September 2, 2009.
162. Gilbert, J.E., **VUI Design for Anonymous Name Spelling in Public Environments**, SpeechTEK 2009, New York, NY, August 24, 2009.
163. Gilbert, J.E., **Achieving Diversity in the New Era of Affirmative Action with Technology**, American Association of Black in Higher Education (AABHE) Leadership Institute, Miles College, Birmingham, AL, July 24, 2009.
164. Gilbert, J.E., **Prime III: Universal Accessibility in Voting**. U.S. Election Assistance Commission, Washington, DC, June 2, 2009.
165. Gilbert, J.E., **Software for Admissions That Provides Holistic Diversity and Aheres to all Judicial Decisions on the use of Race/Ethnicity, Gender in Admissions**. 22<sup>nd</sup> Annual National Conference on Race & Ethnicity in American Higher Education, San Diego, CA, May 29, 2009.
166. Gilbert, J.E., **Security & Technology of Internet Voting**. Alabama League of Women Voters, Birmingham, AL, May 2, 2009.
167. Gilbert, J.E., **Emerging Trends and Entrepreneurship**. Association of Computer/Information Sciences and Engineering Departments at Minority Institutions (ADMI), Morgan State University, Baltimore, MD, April 17, 2009.
168. Gilbert, J.E., **Why Should You Go To Graduate School?** Albany State University, Albany, GA, April 10, 2009.
169. Gilbert, J.E., **Applications Quest: Achieving Equity and Diversity in Admissions with Data Mining**. University of Florida, Gainesville, FL, March 23, 2009.
170. Gilbert, J.E., **Broadening Participation in Computing**. Prairie View A&M University, Prairie View, TX, March 12, 2009.

171. Gilbert, J.E., **Broadening Participation in Computing: Research, Graduate School and the Professoriate**. Fort Valley State University, Fort Valley, GA, March 6, 2009.
172. Gilbert, J.E., **The Prime III Voting System Project**. University of Maryland, Baltimore County, Baltimore, MD, February 20, 2009.
173. (Keynote)  
Gilbert, J.E., **Computing Diversity in Higher Education in the 21<sup>st</sup> Century**. Arizona State University, Tempe, AZ, February 18, 2009.
174. Gilbert, J.E., **Hip-Hop Music and Math**. American Association for the Advancement of Science and Science Chicago, 2009 AAAS Annual Meeting, Meet the Scientists at AAAS Family Science Days! Chicago, IL, February 15, 2009.
175. Gilbert, J.E., **Applications Quest: A Computational Solution to Affirmative Action in the 21<sup>st</sup> Century**. University of Alabama, Tuscaloosa, AL, January 30, 2009.
176. Gilbert, J.E., **The Future of Underrepresented Minority Based Programs**, Alliance for Graduate Education in Mississippi (AGEM) Winter Scholar Symposium, Jackson State University, Jackson, MS, January 23, 2009.
177. Gilbert, J.E., **Modern Day Affirmative Action: Computing Race and Gender Conscious Admissions in the 21<sup>st</sup> Century**, Princeton University, Princeton, NJ, November 17, 2008.
178. (Wes McJulien Lecture)  
Gilbert, J.E., **Advancing Learning through Culture, Technology and Instruction**, 2008 Association for Educational Communications & Technology (AECT), Orlando, FL, November 7, 2008.
179. Gilbert, J.E., **Usable Security in Electronic Voting**, Columbus State University, Columbus, GA, November 5, 2008.
180. Gilbert, J.E., **Prime III: The Intersection Between Usability and Security**, Clemson University, Clemson, SC, October 10, 2008.
181. (Keynote)  
Gilbert, J.E., **Excellence in Academia and Beyond**, National McNair Scholars Research Conference and Graduate School Fair, University of Delaware, Newark, Delaware, October 3, 2008.
182. Gilbert, J.E., **Computing in the 21<sup>st</sup> Century: Innovative Solutions to Real World Problems**. Rochester Institute of Technology, B. Thomas Golisano College of Computing and Information Sciences Dean's Lecture Series, September 26, 2008.

183. Gilbert, J.E., **A New Strategy for Affirmative Action**. National Academies, Washington, DC, September 17, 2008.
184. (Keynote)  
Gilbert, J.E., **Changing The World Through Technology**, Spelman College, Atlanta, Georgia, September 8, 2008.
185. (Keynote)  
Gilbert, J.E., **From the Classroom to the Boardroom in the Academic World**, BDPA 9<sup>th</sup> Annual Scholarship and Education Awards, BDPA Southern Minnesota Chapter, Rochester, MN, August 24, 2008.
186. Gilbert, J.E., **Prime III: A Multimodal Approach to Electronic Voting**, SpeechTEK 2008, New York, NY, August 19, 2008.
187. Gilbert, J.E. **Innovation: Where Computing and Societal Problems Meet**. 2008 STARS Celebration, Auburn, AL, August 12, 2008.
188. Gilbert, J.E. Congressional Testimony, Committee on Rules and Administration, **Bipartisan Electronic Voting Reform Act of 2008**, July 30, 2008, Washington, DC.
189. Gilbert, J.E. **Admissions Equity: Reality and Results**. Washington Duke Inn, Durham, NC, June 26, 2008.
190. Gilbert, J.E. **Prime III: Electronic Voting in the 21st Century**. Monmouth University, May 2, 2008.
191. Gilbert, J.E. **Can Holistic Admissions Replace Affirmative Action?** Education Writers Association, 61<sup>st</sup> Annual Conference, Chicago, IL, April 25, 2008.
192. Gilbert, J.E. **Achieving Diversity in the New Affirmative Action Era**. Virginia Tech, April 22, 2008.
193. Gilbert, J.E. **Shaping the Future of Voting: An Exploration of the Human Factors and HCI Challenges in the Design and Deployment of Prime III**. Virginia Tech, April 22, 2008.
194. (Keynote)  
Gilbert, J.E. **Engineering Research and Innovation in the 21<sup>st</sup> Century**. 34<sup>th</sup> Annual National Society of Black Engineers Convention, Orlando, FL, March 22, 2008.
195. (Keynote)  
Gilbert, J.E. **Entrepreneurship and Innovation in the Academy**. 20<sup>th</sup> National Black Graduate Student Association Conference, Chicago, IL, March 14, 2008.

196. Gilbert, J.E. **Secure, Equal Access for Everyone in Voting.** Auburn University Elderhostel, March 13, 2008.
197. Gilbert, J.E. **Prime III: A Multimodal Approach to Electronic Voting.** Voice Search Conference, San Diego, CA, March 10, 2008.
198. Gilbert, J.E. **Prime III: Innovations in Electronic Voting.** Information Technology & Innovation Forum, Capitol Hill, Washington, D.C. March 6, 2008.
199. (Keynote)  
Gilbert, J.E. **Carter G. Woodson and the Origins of Multiculturalism.** USDA – Natural Resources Conservative Service Black History Observance, Auburn, AL, February 28, 2008.
200. Gilbert, J.E. **Community, Technology and Innovation in the 21<sup>st</sup> Century.** Tuskegee University, Tuskegee, AL, February 22, 2008.
201. (Keynote)  
Gilbert, J.E. **Innovation, Passion and Research: Ingredients for Success.** National Association of Academies of Science and American Junior Academies of Science Banquet, Boston, MA, February 16, 2008.
202. Gilbert, J.E. **Broadening Participation in Computing: AARCS Program.** American Association for the Advancement of Science in Promoting the Success of Minority Graduate Students Session, Boston, MA, February 16, 2008.
203. Gilbert, J.E. **Achieving Diversity Without Preference in the New Affirmative Action Era.** University of Colorado-Boulder, Boulder, CO, February 6, 2008.
204. Gilbert, J.E. **Achieving Diversity Without Preference in the New Affirmative Action Era.** Wayne State University Law School, Detroit, MI, January 23, 2008.
205. Gilbert, J.E. **Community Benefits of Technological Progression and Advancement.** People of Action for Community Enrichment, Opelika, AL, January 19, 2008.
206. Gilbert, J.E. **African-American Researchers in Computing Sciences (AARCS): A Program for Broadening Participation in Computing.** IBM T. J. Watson Research Center, Hawthorne, NY, January 16, 2008.
207. Gilbert, J.E. **Electronic Voting for Senior Citizens.** Osher Lifelong Learning Institute, Auburn, AL, January 14, 2008.

208. Gilbert, J.E. **2008 Disability Services: How to Affect Change in an Election Year Symposium hosted by the Georgia Disability Vote Project at the Center for the Visually Impaired**, Atlanta, GA, January 7, 2008.
209. Gilbert, J.E. **Prime III: A Usable Security Model for Electronic Voting**, Carnegie Mellon University, Pittsburgh, PA, September 12, 2007.
210. Gilbert, J.E., **Preparation for the Professoriate: Pathways, Passion, and Purpose**, PROMISE: Maryland's Alliance for Graduate Education and the Professoriate (AGEP), Baltimore, Maryland, August 17, 2007.
211. Gilbert, J.E. **Prime III: A Multimodal Electronic Voting Platform**. National BDPA Conference, Washington, DC, August 15, 2007.
212. Gilbert, J.E. & Payton, F. **Racioethnic Imbalance in CS and IS: How Do We Change the Face of the Classroom?** National BDPA Conference, Washington, DC, August 15, 2007.
213. Gilbert, J.E. **Prime III: One Machine, One Vote for Everyone**. IBM, Charlotte, NC, June 14, 2007.
214. Gilbert, J.E. **Innovation and Diversity in the 21<sup>st</sup> Century**. Rensselaer Polytechnic Institute, Troy, NY, April 25, 2007.
215. Gilbert, J.E. **Applications Quest: A Strategy to Replace Affirmative Action & Social Justice**. Fixing the Academy: Tapping into Black Excellence on White Campuses 2007, Johns Hopkins University, Baltimore, MD, April 13, 2007.
216. Gilbert, J.E. **Applications Quest ... A Holistic Solution to Application Processing**. American Bar Association Presidential Advisory Council on Diversity in the Profession Eastern Regional Pipeline Workshop, Loyola University-Chicago Law School, Chicago, IL, March 23, 2007.
217. (Keynote)  
Gilbert, J. E. **Prime III & The Future of Electronic Voting**. 29<sup>th</sup> Annual Leroy Roquemore Computer Science Symposium, Southern University, Baton Rouge, LA, March 15, 2007.
218. Cross, E.V. & Gilbert, J. E. **The Prime Voting System: Multimodality & Politics**. AVIOS/SpeechTEK West 2007, San Francisco, California, February 22, 2007.
219. Gilbert, J.E. **Applications Quest: Achieving Diversity in the Proposal 2 Era System**, University of Michigan, Ann Arbor, MI, January 30, 2007.

220. Gilbert, J.E. **The Prime Voting System: A Secure, Multimodal Electronic Voting System**, Northwestern University, Evanston, IL, January 16, 2007.
221. Gilbert, J.E. **Intelligent Instruction with Computer Assisted Pedagogy**, Juxtopia Urban Learning Technology (JULT) Conference, Baltimore, MD, December 2, 2006.
222. Gilbert, J.E. **Race Conscious Policies in Education with Applications Quest**, Jackson State University, Jackson, MS, November 9, 2006.
223. Gilbert, J.E. **Barriers for Underrepresented Groups to STEM: Why Don't You Like Science, Technology, Engineering or Mathematics?**, Jackson State University, Jackson, MS, November 9, 2006.
224. (Keynote)  
Gilbert, J.E. **Academic Jobs ... The Professoriate**, Southern Region Education Board, Institute on Teaching and Mentoring, Miami, FL, October 27, 2006.
225. (Keynote)  
Gilbert, J.E. **Research, Mentoring, Graduate School and the Professoriate**, Bring IT On!, Indiana University, Bloomington, IN, October 20, 2006.
226. Gilbert, J.E., **Applications Quest: Affirmative Action, Race Neutral Admissions, and Holistic Review ... What's Really Fair?**, Indiana University, Bloomington, IN, October 20, 2006.
227. Gilbert, J.E., **Computing Diversity: Affirmative Action and Race Neutral Policies**, Cornell University, Ithaca, NY, September 13, 2006.
228. Gilbert, J.E., **Preparation for the Professoriate: Pathways, Passion, and Purpose**, PROMISE: Maryland's Alliance for Graduate Education and the Professoriate (AGEP), Baltimore, Maryland, August 18, 2006.
229. Gilbert, J.E., **Graduate School for the Working Professional**, 28<sup>th</sup> Annual National BDPA Conference, Los Angeles, California, August 2, 2006.
230. Gilbert, J.E., Esterman, M., & Geiger, C.D. **The Academic Job Search**, 8<sup>th</sup> Annual National GEM Consortium Symposium Future Faculty and Professionals Symposium, June 29, 2006, Chicago, Illinois.
231. Gilbert, J.E. **Applications Quest: Using Diversity in Admissions ... Computationally Speaking**, University of Georgia, Athens, GA, June 23, 2006.
232. (Commencement Speaker)  
Gilbert, J.E., Hamilton High School Annual Commencement Ceremony, Millett Hall, Oxford, Ohio, June 5, 2006.

233. Gilbert, J.E., **Graduate School and the Professoriate**, Association of Computer/Information Sciences and Engineering Departments at Minority Institutions (ADMI), Orlando, FL, May 19, 2006.
234. Gilbert, J.E., **Holistic Review in Admissions: Demonstrating a Computerized Tool**, American Association for the Advancement of Science, Washington DC, May 16, 2006.
235. Gilbert, J.E., Jackson, J.F.L., Sims, P. & Beachum, F. **The State of African-American Men in Milwaukee, Wisconsin: Lets Talk!**, Marquette University, Milwaukee, WI, April 21, 2006.
236. Gilbert, J.E., **Applications Quest: Computing Diversity**, University of South Carolina, Columbia, South Carolina, April 14, 2006.
237. Gilbert, J.E., **The Next Black Ph.D. It's More Than Just Research**, Benedict College, Columbia, South Carolina, April 13, 2006.
238. Gilbert, J.E., **The Next Black Ph.D. It's More Than Just Research**, The National Society of Black Engineers 32<sup>nd</sup> Annual National Convention, Pittsburgh, PA, March 31, 2006.
239. Gilbert, J.E., **Show Me the Money, Careers in STEM**, Rufus King High School, Milwaukee, WI, March 29, 2006.
240. Gilbert, J.E., **Applications Quest: Computing Diversity**, Marquette University, Milwaukee, WI, March 28, 2006.
241. Gilbert, J.E., **Prime III Ushering in a New Age of Electronic Voting**, Marquette University, Milwaukee, WI, March 27, 2006.
242. Gilbert, J.E., **Preparing for Disaster with Technology**, Alabama Association of Assessing Officials Conference, Opelika, AL, March 1, 2006.
243. Gilbert, J. E. **The Holistic Usability Measure (HUM): Evaluating Spoken Language Systems**. AVIOS/SpeechTEK West 2006, San Francisco, California, January 31, 2006.
244. Gilbert, J.E., **Is The Ph.D. Really Worth?: Transitioning To Graduate School**, Albany State University, Albany, GA, January 28, 2006.
245. Gilbert, J.E., **Broaden Participation in STEM or Else**, Morehouse College, Atlanta, GA, January 17, 2006.
246. Gilbert, J.E., **Emergency Preparedness**, Alabama Municipal Revenue Officers Association and Auburn University Center for Governmental Services, Generating Revenue for Cities Conference, Auburn, AL, December 8, 2005.



247. (Keynote)  
Fun-Set Social and Charity Club Beautillion Ball 2005, Huntsville, AL, November 19, 2005.
248. Gilbert, J.E., **The Usability of Usability**, World Usability Day, Auburn University, Auburn, AL, November 3, 2005.
249. Gilbert, J.E., **Applications Quest: Computing Diversity to Address Affirmative Action**. University of North Carolina Charlotte, Charlotte, NC, October 14, 2005.
250. Gilbert, J.E., **Collaborations for Success: Industry & The Academy**, I-85 Corridor Alliance, Auburn University, Auburn University Dixon Hotel & Conference Center, Auburn, AL, September 16, 2005.
251. Gilbert, J.E., **Applications Quest: Using Technology to Address Affirmative Action**, 27th Annual National BDPA Conference, Detroit, MI, August 20, 2005.
252. Gilbert, J.E., **Distributed Listening**, Advanced Speech Technologies Symposium: Emerging Technologies, SpeechTEK Conference, August 1, 2005.
253. Gilbert, J.E., **Applications Quest: Computing Diversity to Address Affirmative Action**. Rice University, Houston, TX, July 29, 2005.
254. Gilbert, J.E., Esterman, M., & Gates, A. **The Academic Job Search and the Tenure-Track Process**, 7th Annual National GEM Consortium Symposium Future Faculty and Professionals Symposium, June 30, 2005, Boston, Massachusetts.
255. Gilbert, J.E., Barrera, E., & Marder, S. **Developing Successful Mentoring Relationships**, 7th Annual National GEM Consortium Symposium Future Faculty and Professionals Symposium, June 30, 2005, Boston, Massachusetts.
256. Gilbert, J.E., **Using Culture and Diversity to Recode the Matrix of the New Millennium Workforce**. Rensselaer Polytechnic Institute, Troy, NY, April 21, 2005.
257. Gilbert, J.E., **How to Choose A Doctoral Mentor and Why This Is Critical to Your Success**. Arizona State University, Phoenix, AZ, April 18, 2005.
258. Gilbert, J.E., **Distributed Listening: Improving Speech Recognition Accuracy**, Virginia Polytechnic Institute and State University, Blacksburg, VA, February 3, 2005.
259. Gilbert, J.E., **Application Quest: Computing Diversity**, Virginia Polytechnic Institute and State University, Blacksburg, VA, February 3, 2005.
260. Gilbert, J.E., **Application Quest: Computing Diversity**, Rensselaer Polytechnic Institute, Troy, NY, January 19, 2005.

261. Gilbert, J.E., **Application Quest: Computing Diversity**, Miami University, Oxford, OH October 29, 2004.
262. Gilbert, J.E., **Ask The Experts, Speech in Government/Public Sector**, SpeechTEK Conference, September 13, 2004.
263. Gilbert, J.E., **Applications Quest: Using Clustering Algorithms to Address Affirmative Action**, 10th Annual Conference for African-American Researchers in the Mathematical Sciences (CAARMS10), June 24, 2004, Berkeley, California.
264. Gilbert, J.E., **Spoken Language Systems Research**, University of Maryland College Park, June 17, 2004, College Park, Maryland.
265. Gilbert, J.E., **Building the Future Black Faculty Pipeline**, AfroGEEKS Conference, University of California Santa Barbara, May 7-8, 2004, Santa Barbara, California.
266. Gilbert, J.E., **Applications Quest: Using Technology to Address Affirmative Action**, Florida A&M University, April 20, 2004, Tallahassee, Florida.
267. Gilbert, J.E., **Speech User Interfaces for Information Retrieval**, University of Maryland, Baltimore County, April 6, 2004, Baltimore, Maryland.
268. Gilbert, J.E., **Global Information Technology**, The 4th Annual African American Leadership Summit, Miami University, February 21, 2004 Oxford, Ohio.
269. Gilbert, J.E. **“Using Technology to Diversify University Campuses”**, Auburn University Africana Studies Lecture Series, 208 Foy Union, January 15, 2004, Auburn University, Alabama.
270. Gilbert, J.E., **Voice LETS**, Criminal Justice Technology Symposium V , Marriott Grand Hotel, December 4, 2003, Point Clear, Alabama.
271. Gilbert, J.E., **Voice eVIAS**, Georgia Institute of Technology – Access Grid Presentation, June 17, 2003, Atlanta, Georgia.
272. Gilbert, J.E., **Going to Graduate School for Computer Science**, Tuskegee University, March 6, 2003, Tuskegee, Alabama.
273. Gilbert, J.E., **Technology for African American Survival: Tech Talk**, The 3rd Annual African American Leadership Summit, Miami University February 22, 2003, Oxford, Ohio.
274. Gilbert, J.E., **Information Verbalization**, University of Alabama-Birmingham, September 19, 2002, Birmingham, Alabama.

275. Gilbert, J.E., **An Introduction to VoiceXML: Adding Voice To Data**, BDPA 2002 24th Annual National Conference, August 9, 2002, Orlando, Florida.
276. Gilbert, J.E., **African American Distributed Multiple Learning Styles System: A Culture-specific Approach to ELearning**, BDPA 2002 24th Annual National Conference, August 9, 2002, Orlando, Florida.
277. Gilbert, J.E., **Animated Pedagogical Agents**, Southern Polytechnical State University, April 10, 2002, Marietta, Georgia.
278. Gilbert, J.E., **Making Learning Personal With Adaptive Instruction**, University of Houston Clear Lake, April 1, 2002, Houston, Texas.
279. Gilbert, J.E., **Finding Information With Your Voice (Anywhere, Anytime, Any Device)**, University of Houston Clear Lake, April 1, 2002 Houston, Texas.
280. Gilbert, J.E., **Making Learning Personal With Adaptive Instruction**, Vanderbilt University, March 24, 2002, Nashville, Tennessee.
281. Gilbert, J.E., **Technology in the Next Millennium**, The 2nd Annual African American Leadership Summit, Miami University, February 16, 2002, Hamilton, Ohio.
282. Gilbert, J.E., **Browsing the Internet with Voice Portals: A New Wave in Technology**, African American Entrepreneurship Summit, Auburn University, February 14, 2002, Auburn, Alabama.
283. Gilbert, J.E., **African American Distributed Multiple Learning Styles System: A Culture-specific Approach to ELearning**, ACM Richard Tapia Celebration of Diversity in Computing, October 20, 2001, Houston, Texas.
284. Gilbert, J.E., **E-Commerce, E-Culture and the Digital Divide ... Where Are We Headed?**, Black Client Workshop, Cincinnati, Ohio, Cincinnati Convention Center, June 8, 2000, Cincinnati, Ohio.
285. Gilbert, J.E., **Selecting Instructional Technology**, Xavier University, September 10, 1999, Cincinnati, Ohio.
286. Gilbert, J.E., **Electronic Commerce**, BDPA Cincinnati Chapter, Greater Cincinnati Urban League, August 11, 1999, Cincinnati, Ohio.

287. Gilbert, J.E., **E-Commerce & Web Branding: A Use For Persuasive Technologies**, 5th Annual Conference for African-American Researchers in the Mathematical Sciences - CAARMS5, University of Michigan, June 22 - 25, 1999, Ann Arbor, Michigan.
288. Gilbert, J.E., **Teaching with Interactive Media Now & in the Future**, Interactive Media Studies Conference '98, Miami University, November 20, 1998, Oxford, Ohio.
289. Gilbert, J.E., **JavaScript**, Greater Cincinnati Library Consortium, Cincinnati State Community College, November 10, 1998, Cincinnati, Ohio.
290. Gilbert, J.E., **Java**, Association for Computing Machinery Miami University Chapter, Miami University, October 21, 1998, Oxford, Ohio.
291. Gilbert, J.E., **JavaScript as a Web-Development Tool**, University of Cincinnati, December 4, 1997, Cincinnati, Ohio.
292. Gilbert, J.E., **Web-based Instruction System for Education with Interactive Video**, Learning With Technology Conference, The Ohio State University, June 19, 1997, Columbus, Ohio

### **Other Presentations**

1. Dahlberg, M.L., Gilbert, J.E., Tull, R., Zavala, M.E., Byars-Winston, A., & Staussun, K. (2019), **Effective Mentoring: Strategies and Experiences**, American Association for the Advancement of Science (AAAS) Annual Meeting, Washington, DC, February 16, 2019.
2. Darville G., Anderson – Lewis, C., Stellefson, M., Lee, Y., MacInnes, J., Pigg, R. M., Gilbert, J.E., & Thomas, S. (November 5th – 8th, 2017). **Customization of Avatars in a Digital Gaming Intervention – An Experimental Study**. Abstract accepted for presentation at the 145th APHA Annual Meeting & Exposition – Atlanta, GA.
3. Frierson, H., Malcom, S., Moore, J.L., Stassun, K., Campbell, P.B. & Gilbert, J.E. **The Enduring Trek to Diversify STEM PhD Programs**. 2017 AERA, San Antonio, TX, April 28, 2017.
4. Gilbert, J.E., Munakata Marr, J., Thomas, R.C., El Maghraoui, K., & Lasich, D., **Minority Women: Diversity and Mentoring in the Research Environment**, 11<sup>th</sup> Annual Conference for the Society of Women Engineers (SWE), Chicago, IL, October 15, 2011.

5. Jackson, J.F.L., Charleston, L., & Gilbert, J.E., **Changing Attitudes about Computing Science at Historically Black Colleges and Universities: Benefits of an Intervention Program Designed for Undergraduates**, 4th Annual Conference on Understanding Interventions that Broaden Participation in Research Careers, Nashville, TN, May 28, 2011.
6. Gilbert, J.E., Burnett, M., Ladner, R., Rosson, M.B., & Davis, J., **Applying the NSF Broader Impacts Criteria to HCI Research**, ACM 2011 CHI Conference on Human Factors in Computing Systems, Vancouver, CA, May 10, 2011.
7. Bang, M., Everett, A., Gomez, K. & Gilbert, J.E., **Research and Practice in Education, Media, and People of Color**, American Education Research Association (AERA), New Orleans, LA, April 7, 2011.
8. Blake, M.B., Camp, T., Gilbert, J.E., Perez-Quinones, M., Williams, A., **Choosing the Administrative Path**, Richard Tapia Celebration of Diversity in Computing, San Francisco, CA, April 5, 2011.
9. Jackson, J.F.L., Gilbert, J.E., Charleston, L.J., & Gosha, K., **Differential Gender Effects of a STEM-Based Intervention: An Examination of the African American Researchers in Computing Sciences Program**, American Education Research Association (AERA), Denver, Colorado, May 4, 2010.
10. Jackson, J., Gilbert, J.E., Walker, J.L., & Williams, A.T., **Changing Attitudes about Computing Science: Benefits of an Intervention Program Designed for African American Undergraduates**, American Association of Blacks in Higher Education (AABHE), Atlanta, GA, March 26, 2010.
11. Burge, J., Gilbert, J.E., & Lopez, P. **Finding the Best Career Choice for You**. Academic Careers Workshops for Underrepresented Participants, Coalition to Diversity Computing (CDC), Houston, TX, March 6, 2010.
12. Gilbert, J.E. **Opportunities in Diversity Research**. Auburn University, Auburn, AL, January 28, 2008.
13. Jackson, J., George, P. & Gilbert, J.E. **Interventions that Show Great Promise for Increasing African American Computing Scientists in Higher Education: Evidence from the African American Researchers in Computing Sciences Program**. 2007 AERA, Chicago, IL, April 10, 2007.
14. Hood, S. & Gilbert, J.E., **Alternative Assessment: Using a Culturally Relevant, Computer-Based Interactive Tool (AADMLSS) to Assess Students' Eighth-Grade Algebra Knowledge**. American Education Research Association (AERA), San Francisco, CA, April 8, 2006.

15. Gilbert, J.E., **Thinking Outside the Box: Engaging Students in Creative Thought**, Auburn University Forum on College Teaching and Learning, Auburn, AL, February 4, 2006.
16. Gilbert, J.E. & York, B., **The Computer Science Academic Job Search**, 2005 Richard Tapia Celebration of Diversity in Computing Conference, Albuquerque, New Mexico, October 21, 2005.
17. Gilbert, J.E., **How to Start a Successful Research Program: A Diverse Perspective**, Texas A&M University Academic Career Workshop Focus: Underrepresented Faculty, College Station, Texas, September 9, 2005.
18. Gilbert, J.E., **How to Navigate the Tenure Process: A Diverse Perspective**, Texas A&M University Academic Career Workshop Focus: Underrepresented Faculty, College Station, Texas, September 9, 2005.
19. Gilbert, J.E., Wilson, D. & Gupta, P., **Evaluating Voice User Interfaces Workshop**, SpeechTEK Conference, August 1, 2005.
20. Jackson, J.F.L., Moore, J.L., Cole, D., McNeal, L., Gilbert, J.E., Williams, B.N., and Ford, D.Y., **The Theory of Reasoned Action: Examining Sociological Factors that Influence Education for African American Males**. American Education Research Association Annual Conference. April 12, 2005, Montreal, Canada.
21. Gilbert, J.E., **Voice User Interface Workshop**, SpeechTEK Conference, September 13, 2004.
22. Gilbert, J.E. & Others, **The Survival of African American Men In The Academy: Rules of Engagement**, Vanderbilt University, Black Culture Center, October 11, 2002, Nashville, Tennessee.
23. (Best Poster Presentation)  
Rankins, J., Gilbert, J., Brown, P., Pemberton, C., Kacmar C., McDuffie, E., **I-CAN: An Interactive-Computer Assisted Network for Bridging the Chronic Disease Divide between African-Americans and Caucasians**, ACM Richard Tapia Celebration of Diversity in Computing  
October 20, 2001, Houston, Texas.

## **Honors & Awards**

- 2018     **Fellow, Association of Computing Machinery (ACM)**
- 2018     **Computing Research Association (CRA) A. Nico Habermann Award**
- 2018     **Self-Advocates Becoming Empowered (SABE) Presidential Award**

- 2017 **Fellow, National Academy of Inventors (NAI)**
- 2016 **Southern Region Education Board (SREB) Faculty Mentor of the Year**
- 2015 **AAAS-Lemelson Foundation Invention Ambassador**
- 2015 **University of Cincinnati The Alta Petit Award, Presidential Medal**
- 2014 **American Association for the Advancement of Science (AAAS) Mentor Award**
- 2013 **Featured as a Black Tech Game Changer by NPR on December 12, 2013 under #NPRBlacksInTech on Twitter**
- 2013 **Featured in People of ACM in the ACM Bulletin on October 3, 2013**
- 2013 **Auburn University Black Graduate and Professional Student Association creates the Juan E. Gilbert, Ph.D. Distinguished Lecture Series**
- 2013 **Named an Idea Maker: Ten Tech Innovators in 2013 by the Chronicle of Higher Education**
- 2013 **Richard A. Tapia Achievement Award**
- 2013 **Clemson University Research Foundation (CURF) Inventor's Club**
- 2012 **Federal Communications Commission (FCC) Chairman's Awards for Advancement in Accessibility**
- 2012 **Named one of the 2012 The Root 100 Black Influencers and Achievers**
- 2012 **2012 National Center for Women in IT (NCWIT) Undergraduate Research Mentoring Award**
- 2012 **2012 Hamilton, Ohio Booker T. Washington Community Center Academic Excellence Award**
- 2012 **2012 Miami University Bishop Medal Alumni Award**
- 2012 **February 2012 Named "Dr. Juan Gilbert Month" by Hamilton, Ohio City Council**
- 2012 **Recipient of the Hamilton, Ohio City Council Key to the City**
- 2012 **Council for Advancement and Support of Education (CASE) District III Grand Award Winner for Audiovisual Communication, "Prime III: The world's first all-accessible, electronic voting system"**

- 2011 **Presidential Award for Excellence in Science, Mathematics, and Engineering Mentoring (PAESMEM)**
- 2011 **Minority Media and Telecommunications Council Broadband and Social Justice Blog People's Hero of the Week**
- 2011 **Clemson University Board of Trustees 2011 Award for Faculty Excellence**
- 2010 **Fellow, American Association for the Advancement of Science (AAAS)**
- 2010 **ACM Distinguished Scientist**
- 2008-2015 **Named 1 of the 50 Most Important African Americans in Technology**  
(eAccess Corp of San Francisco, John William Templeton, president/executive editor)
- 2011 **Fellow, African Scientific Institute (ASI)**
- 2010 **Academic Keys Who's Who in Sciences Education**
- 2010 **Clemson University Board of Trustees 2010 Award for Faculty Excellence**
- 2009 **Clemson University Board of Trustees 2009 Award for Faculty Excellence**
- 2010 – 2012 **IEEE Computer Society Distinguished Visitors Program (DVP)**
- 2009 **Speech Technology Magazine Speech Luminary Award Recipient**
- 2009 **University of Texas at Austin IC<sup>2</sup> Institute Global Fellow**
- 2008 **IEEE Computer Society Golden Core Award**
- 2008 **National Associate of the National Research Council of the National Academies**
- 2009 **Featured as a Master of Innovation by Black Enterprise Magazine March 2009**
- 2009 **Black Engineer of the Year Modern Day Technology Leadership Award**
- 2009 **Auburn University Computer Science & Software Engineering Outstanding Engineering Faculty Award**
- 2009 **Information Today, Inc. Voice User Interface Design Contest Winner**
- 2008 **Fellow, Auburn University Center for Governmental Services**
- 2008 **National Society of Black Engineers Golden Torch Award for Pioneer of the Year**



- 2008 **BDPA Epsilon Award for Outstanding Technical Contribution**
- 2008 **Auburn University Distinguished Diversity Researcher Award**
- 2007 **Total System Services Inc. (T-SYS) Distinguished Professorship**
- 2007 - **ACM Distinguished Speaker**  
2015
- 2007 **Honored Member of the Premier International Who's Who Registry of Outstanding Professionals 2007-2008 Edition**
- 2007 **Minority Access, Inc. National Researcher Role Model Award Recipient**
- 2007 **Led the First Runner-Up and Best in Class Winner of the First Annual AVIOS Speech Application Contest Team**
- 2007 **Who's Who in Science and Engineering**
- 2006 **Total System Services Inc. (T-SYS) Distinguished Associate Professorship**
- 2006 **Elevated to Senior Membership of the IEEE Computer Society**
- 2006 **Microsoft Research External Research Fund Recipient**
- 2006 **Ralph H. Metcalfe, Sr. Chair - Marquette University**
- 2006 **Featured in City Year New York Martin Luther King, Jr. Mural Painting in Honor of Diversity in Technology**
- 2006 **Metropolitan Who's Who Registry**
- 2006 **Who's Who in America**
- 2006 **Invited as a Presenter at the 2006 National Academy Annual Meeting**
- 2005 **Invited to the National Academy of Engineering Frontiers of Engineering Symposia**
- 2005 **Named an Honorary Citizen of Huntsville, Alabama by The City Council and Mayor of Huntsville**
- 2005 **100 Black Men of Greater Auburn/Opelika, Inc. Superior Academic Service Award**
- 2005 **American Society for Engineering Education (ASEE) DuPont Minorities in Engineering Award**

- 2005 **United Who's Who Executive Registry**
- 2005 **Auburn University Outstanding Minority Service Award**
- 2005 **Auburn University Alumni Outstanding Minority Achievement Award**
- 2005 **Auburn University Computer Science & Software Engineering Outstanding Engineering Faculty Award**
- 2005 **Black Engineer of the Year Special Recognition Award Recipient**
- 2004 **Invited to the National Academy of Sciences Beckman Frontiers of Science Symposia**
- 2003 **Auburn University Alumni Engineering Council Junior Faculty Research Award**
- 2003 **The Coalition to Diversity Computing Conference Scholarship Winner**
- 2002 **One of 250 researchers listed on LESTER (Learning Science & Technology Repository)**
- 2002 **Featured on Minority Scientist Network a publication of the American Association for the Advancement of Science**
- 2002 **Featured in Who's Who in Engineering Education (WWEE), 2002 edition**
- 2002 **(Profiled in Black Issues in Higher Education as a top scholar) (De)Programming Stereotypes. *Black Issues In Higher Education*. 18, 23, (2002).**
- 2002 **Georgia Institute of Technology FOCUS Fellow**
- 1999 **Miami University Leadership Commitment Selection**
- 1999 **ACM/IBM Quest for Java 99 Contest 5th Prize Winner**
- 1998 **International WHO'S WHO of Information Technology**
- 1997 **Albert C. Yates Fellowship, University of Cincinnati**
- 1995 **Dean's Fellowship, The Ohio State University**
- 1994 **Great Performance Award, NCR Corporation**
- 1990 **NCR Innovative Thinker's Contest Winner, Miami University**

1988     **NCR Minority Scholarship Award, Miami University**

1988     **Black Student Action Association Service Award, Miami University**

## **Experience**

2015- Present     **University of Florida (Gainesville, FL), Professor & Department Chair, Computer & Information Science & Engineering Department**

2014 – 2015     **University of Florida (Gainesville, FL), Professor & Associate Chair of Research, Computer & Information Science & Engineering Department**

2009 – 2014     **Clemson University (Clemson, SC), Professor & Chair Division of Human-Centered Computing**

2010 – 2012     **Clemson University (Clemson, SC), Graduate Program Director Division of Human-Centered Computing**

2009             **Auburn University (Auburn, AL), Professor**

2005 – 2009     **Auburn University (Auburn, AL), Associate Professor**

2007 – 2016     **President and Chief Technology Officer, Applications Quest™, LLC.**  
-<http://www.ApplicationsQuest.com/>

2009 – 2012     **Technical Advisor to Everyone Counts Inc.**  
-<http://www.EveryoneCounts.com/>

2006 – Present   **Consultant, American Association for the Advancement of Science (AAAS) Center for Advancing Science & Engineering Capacity**  
[http://php.aaas.org/programs/centers/capacity/01\\_About/01\\_ConsultantRoster.php](http://php.aaas.org/programs/centers/capacity/01_About/01_ConsultantRoster.php)

2000 – 2005     **Auburn University (Auburn, AL), Assistant Professor**

2000 – 2016     **Brothers of the Academy Institute**  
\*Webmaster  
-<http://www.BrothersOfTheAcademy.org/>

1998 - 2000     **Miami University (OH), Visiting Instructor, Systems Analysis Department**

1997             **The Ohio State University (Teaching Assistantship)**  
\*C++ Programming for Engineers(Spring 1997)

- 1996 – 1997      **Computer Science Adjunct Faculty, Columbus State Community College, Columbus, Ohio**  
 \*Database Programming with Oracle (Summer 1996)  
 \*PC Operating Systems DOS/Windows (Autumn 1996)  
 \*Program Design and Development(Winter-Spring 1997)
- 1988 – 1995      **NCR Corporation, Dayton, Ohio**  
 \* Application Development and Consulting  
 \* DBA for World Wide Orders System on Teradata Database  
 \* Application Development in Visual C++  
 \* Managed & documented Filepro database  
 \* Installed PC's, printers, & software  
 \* Investigated new system software
- 1988 – 1991      **Applied Science Department, Miami University, Oxford OH**  
 \*Monitor PC-Network maintenance  
 \*Monitor computer Lab Operations  
 \*Tutor Systems Analysis majors  
 \* Manage Network for engineering students

## **Memberships**

**ACM (Association for Computing Machinery) (<http://www.acm.org/>)**

**American Association for the Advancement of Science (AAAS)**

**ACM US Technology Policy Committee (<https://www.acm.org/public-policy/ustpc/>)**

**Human Factors and Ergonomics Society (HFES)**

**User Experience Professional's Association (UXPA)**

**IEEE Computer Society**

**American Society for Engineering Education (ASEE)**

**International Artificial Intelligence in Education Society (AIED)**

**AACE (Association for the Advancement of Computing in Education)**

**American Education Research Association (AERA)**

**Association for Voice Interaction Design (AVIXD)**

**ACM SIGACCESS**

**Special Interest Group on Accessible Computing**

**ACM SIGCSE**

**Special Interest Group on Computer Science Education**

**ACM SIGCAS**

**Special Interest Group on Computers and Society**

**ACM SIGCHI**

**Special Interest Group on Computer-Human Interaction**

**National Society of Black Engineers (NSBE)**

**Adaptive Hypertext & Hypermedia**

**Upsilon Pi Epsilon**

**BDPA (Black Data Processing Association)**

**American Association of Blacks in Higher Education (AABHE)**

**Kappa Alpha Psi Fraternity Inc.**

## **Service**

- 2019 – Present    **Sloan-AAAS-Education Counsel Advisory Committee**
- 2019 – Present    **ACM Diversity & Inclusion Council Member**
- 2018 - Present    **University of Florida African-American Studies Program Director  
Search Committee**
- 2016 - Present    **University of Central Florida Industrial Advisory Board Member**
- 2017 – Present    **University of Florida African-American Studies Advisory Board**
- 2017 – Present    **BDPA National Board Member**
- 2018 – 2021      **NSF Committee on Equal Opportunities in Science and Engineering  
(CEOSE) Advisory Committee**

2017 – Present **APLU NSF Engineering Databooks Advisory Committee**  
2017 – Present **Human Factors and Ergonomics Society (HFES) Internet Technical Group (ITG) Chair**

2017-2019 **Human Factors and Ergonomics Society (HFES) Conference Internet Technical Group (ITG) Program Chair**

2019 - 2020 **National Academies of Sciences, Engineering and Medicine (NASEM) Committee on The Role of Authentic STEM Learning Experiences in Developing Interest and Competencies for Technology and Computing**

2017 - 2019 **National Academies of Sciences, Engineering and Medicine (NASEM) Committee on The Science of Effective Mentoring in Science, Technology, Engineering, Medicine, and Mathematics (STEMM)**

2019 **ACM SIGCHI Conference Reviewer**

2019 **Served as a Reviewer for William T. Grant Foundation**

2019 - 2022 **ACM Heidelberg Laureate Forum Selection Committee Member**

2017 – 2019 **National Academies of Sciences, Engineering and Medicine (NASEM) Committee on The Future of Voting: Accessible, Reliable, Verifiable Technology**

2018 **Served as a reviewer for the Journal of Women and Minorities in Science and Engineering**

2018 **Served as a reviewer for Automation in Construction Journal**

2017 - 2018 **Intel Corporation HBCU Diversity Initiative External Advisory Board Member**

2017 **Applied Human Factors and Ergonomics (AHFE) 2017 International Conference for the Design for Inclusion Scientific Advisory Board Member**

2017 **Served as a reviewer for Communications of the ACM**

2017 **Served as a reviewer for Computers & Security Journal**

2017 **Human Factors and Ergonomics Society (HFES) Conference User Experience (UX) Day Program Committee**

2017            **Served as NSF Panel Reviewer**

2016            **Human Factors and Ergonomics Society (HFES) Conference User Experience (UX) Day Marc Resnick Best Paper Award Judge**

2016            **Human Factors and Ergonomics Society (HFES) Conference User Experience (UX) Day Leadership Development Workshop Chair**

2016            **Served as a reviewer for Computers & Security Journal**

2015            **Human Factors and Ergonomics Society (HFES) Conference User Experience (UX) Day Contest Judge and Mentor**

2015-2017     **Applied Human Factors and Ergonomics (AHFE) Design for Inclusion 2016 Scientific Advisory Board**

2015-2017     **USACM Executive Council Member**

2015-2017     **Served on Advisory Board for the California Association of Voting Officials (CAVO)**

2015-Present   **Advisor, University of Florida National Society of Black Engineers (NSBE)**

2015-2018     **Served on Advisory Board for the Consortium Enabling Cybersecurity Opportunities and Research (CECOR)**

2015            **Served as an Internal Reviewer for the UF Pew Scholars Program in Biomedical Sciences**

2015            **Served on Program Committee for RESPECT 2015 (Research in Equity and Sustained Participation in Engineering, Computing, and Technology)**

2015            **Served as a reviewer for ACM Computing Surveys**

2014            **Served as a reviewer for Applied Ergonomics Journal**

2014            **Served as a reviewer for Morgan Kaufman Publishers for HCI book**

2014-2017     **USACM E-Voting Subcommittee Chair**

2014            **Served as a NSF Panelist**

2014	<b>Served as a reviewer for Cyberpsychology, Behavior, and Social Networking Journal</b>
2014-2016	<b>American Association for the Advancement of Science (AAAS) Annual Scientific Program Committee Member</b>
2013-2016	<b>Served on the Boys &amp; Girls Clubs of American STEAM Advisory Council</b>
2014	<b>Served as a reviewer for the International Journal of Artificial Intelligence in Education (IJAIED)</b>
2013	<b>Served as a reviewer for the Journal of STEM Education</b>
2013	<b>Served as a reviewer for the NCWIT Undergraduate Research Mentoring Award</b>
2013	<b>Served as a reviewer for Communications of the ACM</b>
2012	<b>Served as a reviewer for the Center for Culturally Responsive Evaluation and Assessment (CREA) Inaugural Conference</b>
2012	<b>ACM 2013 CHI Conference Paper Reviewer</b>
2012	<b>American Association for the Advancement of Science (AAAS) Mentor Award Committee Member</b>
2012 - 2014	<b>Clemson University School of Computing Graduate Student Association, Co-Advisor</b>
2012 - 2014	<b>Anderson District 5 Career Campus, Career and Technology Advisory Council Member</b>
2012 - 2014	<b>Associate Partner on Advising Committee for AdeleRobots.com</b>
2011 – Present	<b>Advisory Board Member for AAAS-NSF Emerging Researchers National (ERN) Conference in Science, Technology, Engineering and Mathematics (STEM)</b>
2010 – 2014	<b>NSF Computer &amp; Information Science &amp; Engineering (CISE) Advisory Committee Member</b>
2010 – 2013	<b>Member of the American Association for the Advancement of Science (AAAS) Board appointed Committee on Opportunities in Science (COOS)</b>



- 2010 – 2013 **American Association for the Advancement of Science (AAAS) Early Career Award for Public Engagement Selection Committee Member**
- 2011 – 2014 **Served on Clemson University President’s Commission on the Status of Black Faculty and Staff**
- 2012 - 2014 **BMW Steering Circle Committee, Member**
- 2012 **Guest Blogger for Communications of the ACM**
- 2012 - 2013 **Chair, Coalition to Diversity Computing (CDC), joint organization of the ACM, CRA and IEEE-CS**
- 2011 - 2014 **Clemson University CyberInstitute Steering Committee Chair**
- 2011 **Editorial Board Member for Special issue on Social Media and Mobile Marketing in Journal of Research in Interactive Marketing**
- 2011 **Associate Editor for the International Journal of Health, Wellness and Society**
- 2011 **Served as a reviewer for the Journal of STEM Education: Innovations and Research**
- 2011 **Ford Foundation Fellowship Panelist**
- 2011 **Advisory Board for DiverseBusinessNews.com**
- 2011 **Technical Program Committee Member for Learning Technologies for the Developing World (LT4D) Workshop for the The 11<sup>th</sup> IEEE International Conference on Advanced Learning Technologies (ICALT 2011)**
- 2011 **Served as a reviewer for the Personal and Ubiquitous Computing Journal Special Theme Issue on Automotive User Interfaces and Interactive Applications**
- 2011 **Served as a reviewer for 2012 IEEE International Electric Vehicle Conference**
- 2010 **Served as a reviewer for the Quality Education Forum Journal**
- 2011 **Served as a reviewer for Usability Professionals Association (UPA) 2011 Conference**

2010 **Computer Science Education Week Steering Committee Member**

2010 **American Association for the Advancement of Science (AAAS) Mentor Award Selection Committee Member**

2010 **Served on 3 NSF Panels**

2009 - **Clemson University School of Computing Graduate Recruiting Committee Chair**

2010 - **Clemson University School of Computing Graduate Affairs Committee**

2010 **Clemson University Executive Vice-President for Research Search Committee Member**

2010 **Clemson University Computing and Information Technology EPSCoR Desktop to Teragrid Search Committee member.**

2010 **Clemson University Search Committee for Director of Access and Equity**

2007 – 2009 **IEEE Computer Society Board of Governors**

2009 - 2015 **ACM U.S. Public Policy Committee (USACM) Council Member**

2006 - 2008 **IEEE Computer Broadening Participation in Computing Column Editor**

2009 - **Journal of African American Males in Education Advisory Board Member**

2010 **Served as a review for ACM Transaction on Computing in Education**

2010 **Served as a review for IEEE Signal Processing Letters**

2009 **Served on 2 NSF Panels**

2008 **National Academy of Science France – U.S. Kavli Frontiers of Science Symposium Organizing Committee Member**

2008 **Served on the U.S. Election Assistance Commission Interdisciplinary Roundtable on Voluntary Voting Systems Guidelines (VVSG)**

- 2009 **IEEE International Conference on Multimedia & Expo (ICME 2009) Technical Program Committee**
- 2008 **College Board and NSF Advanced Placement Computer Science Commission**
- 2009 **Speech Technology Conference Committee**
- 2008 **Auburn University Center for Governmental Services Associate Director Search Committee Chair**
- 2008 – 2012 **CRA-W/CDC Discipline Specific Mentoring Workshop Co-Chair**
- 2006 – 2009 **Editorial Advisory Board – Speech Technology Magazine**
- 2008 **Auburn University Outreach Symposium Committee**
- 2008 – 2009 **Auburn University Black Graduate and Professional Student Association (BGPSA) Faculty Advisor**
- 2007 **Served on the U.S. Election Assistance Commission Roundtable on Voluntary Voting Systems Guidelines (VVSG)**
- 2007 – 2009 **Advisory Board Member for The Information Technology and Innovation Foundation’s Electronic Voting Initiative**
- 2007 – 2014 **Advisory Board Member for Juxtopia Inc.**
- 2006 – 2014 **Advisory Board Member for the Center for African-American Research and Policy**
- 2007 **Auburn University Diversity Research Institute Planning Committee Member**
- 2007 – 2010 **American Education Research Association (AERA) Communications and Outreach Committee Member**
- 2007 **SpeechTEK 2007 Voice User Interface Workshop Co-Chair  
VUI Designer as a Profession: Job Qualifications & Career Tracks**
- 2007 **Reviewer for Journal of STEM Education**
- 2007 **Reviewer for INTERACT 2007**

- 2007 **Workshop Committee Co-Chair for the 1<sup>st</sup> NSF International Workshop on Virtual Instructors, VI-2007, Georgetown University, May 21-22, 2007.**
- 2007 **Program Committee Member for the 2007 “Fixing the Academy” Tapping Black Excellence on White Campuses Conference, Johns Hopkins University, April 13-14, 2007.**
- 2006 – 2008 **Advisory Board for the QEM INFLOW Project, a project of the Quality Education for Minorities (QEM) Network supported by the National Science Foundation’s Engineering Directorate.**
- 2006 – 2007 **ACM Southeast Conference 2007 Program Committee**
- 2006 – 2007 **IEEE Computer Society Technical Committee on Learning Technology - Virtual Instructors Pilot Research Group (VIPRG) Conversational Interface Sub-Committee Chair**
- 2007 – 2009 **Served on the Auburn University Athletics Department Student Athlete Support Services (SASS) Advisory Board**
- 2007 **Auburn University Outreach Symposium Committee Member**
- 2007 - 2009 **Auburn University College of Engineering Graduate Student Recruitment Committee**
- 2007 **ACM Richard Tapia Celebration of Diversity in Computing Birds of a Feather Co-Chair**
- 2007 **Reviewer for ACM CHI 2007**
- 2007 **Fixing the Academy: Tapping Black Excellence on White Campuses Papers Co Chair**
- 2006 **Reviewer for the International Journal of Interactive Technology and Smart Education**
- 2006 **Reviewer for IEEE Computer**
- 2006 **Reviewer for Journal of Women and Minorities in Science and Engineering**

- 2006 – 2007 **Served on the 2007 Program Committee for the Association of Computer and Information Science/Engineering Departments at Minority Institutions (ADMI)**
- 2006 **Program Committee Member for InterSpeech Satellite Workshop titled “Dialogue on dialogues: Multidisciplinary Evaluation of Advanced Speech-based Interactive Systems “**
- 2006 **Chaired the organization committee for the National Academy of Sciences Kavli Frontiers of Science Symposia**
- 2005 - 2007 **The American Society for Engineering Education (ASEE) Minorities in Engineering Award Committee Member**
- 2005 – 2009 **Auburn University Title VI Committee Member.**
- 2006 **Reviewer for the International Journal of Human-Computer Interaction**
- 2005 - 2010 **Black Data Processing Association (BDPA) Information Technology Institute Academic Chair**
- 2005 **International Conference on Multimodal User Interfaces (ICMI) Universal Access Program Area Chair**
- 2005 **ACM Richard Tapia Conference  
Celebration of Diversity in Computing  
Served on the Scholarship Committee**
- 2005 **Served on the organization committee for the National Academy of Sciences Beckman Frontiers of Science Symposia**
- October 20-21, 2004 **Served on the Computing Research Association’s (CRA) Workshop on Broadening Participation in Computing.**
- August 8, 2004 **Served as the High School and College IT Showcase Lead Judge at the 26<sup>th</sup> Annual National BDPA Conference.**
- 2004 **Served on the Editorial Review Board for International Journal on ELearning and the Journal of Interactive Learning Research.**

May 2004 - August 2004      **Abstract Selection Committee for the 2004 SACNAS Conference (Society for Advancement of Chicanos/Latinos and Native Americans in Science), Austin, Texas from October 21-24, 2004.**

February 2004 - Present      **VoiceXML University: VoiceXML Education Exchange Review Board Member**  
([http://www.voicexml.org/resources/vxml\\_university/index.html](http://www.voicexml.org/resources/vxml_university/index.html))

April 2004      **International Conference on Computing, Communications and Control Technologies: CCCT'04**  
**Served on the External Paper Review Committee**

March 25, 2004      **The 4<sup>th</sup> International Conference on Advanced Learning Technologies (ICALT 2004)**  
**Aug. 30 - Sep. 1, 2004**  
**Served on the External Paper Review Committee**  
<http://lttf.ieee.org/icalt2004/committees.html>

2003      **Served on 3 NSF Proposal Review Panels**

October 15-18, 2003      **ACM Richard Tapia Conference**  
**Celebration of Diversity in Computing**  
**Served on the Scholarship Committee**

October 1, 2003      **SpeechTEK 2003**  
**Served as Moderator for the Building Brands with Speech Solutions Panel**

Fall 2003      **Served on the Africana Studies Major/Department Proposal Committee for President Walker, lead by Dr. Keenan Grenell, Interim Assistant Provost for Diversity and Multicultural Affairs**

August 22, 2003      **Served as a Review for Systemics, Cybernetics and Informatics 2003**

August 19, 2003      **Participated in the design of the VoiceXML Application Developer Exam (developed by The VoiceXML Forum)**

August 13-18, 2003      **BDPA 2003 25<sup>th</sup> National Annual Conference**  
**Workshops Deliver Manager/Chair**

August 6, 2003 **Serving as a reviewer for the Journal of Computing in Higher Education**

Spring 2003 **Advised 2 undergraduate seniors at Tuskegee University on their senior project.**

2002 – 2010 **Miami University Department of Computer Science & Systems Analysis Advisory Committee Member**

2003 **National Black Data Processing Association Conference Workshop Chair**

2002 **NSF Proposal Review Panel**

October 2002 **McGraw Hill Book Review (For the 2<sup>nd</sup> time)  
C++ Programming: Lessons and Applications  
by T. B. D’Orazio**

October 2002 **McGraw Hill Book Review  
C++ Program Design  
by Cohoon and Davidson**

June 6, 2002 **Black Data Processing Association & The Black World Today  
Radio Talk Show Guest**

April 2002 **ACM Crossroads Magazine  
HCI Issue Reviewer**

March 2002 **McGraw Hill Book Review  
Applied C: An Introduction and More  
by Alice Fischer, David Eggert & Stephen Ross**

January 2002 **McGraw Hill Book Review  
C++ Programming: Lessons and Applications  
by T. B. D’Orazio**

Summer 2001 **Project NIA: Taught summer course on computers to 7<sup>th</sup> and 8<sup>th</sup> graders from Loachapoka Junior High School.**

## Doctoral Graduates (Major Professor)

	<b>Graduate Student</b>	<b>Graduation Date</b>	<b>Position</b>
1.	*+Tiffanie Smith	October 28, 2019	Assistant Professor, Lincoln University
2.	*Elizabeth A. Matthews	June 25, 2019	Assistant Professor, Washington & Lee University
3.	*+Sanethia V. Thomas	March 13, 2019	Lecturer, University of Florida
4.	+Jerone Dunbar	August 3, 2018	Honda Research & Development
5.	*+Jessica N. Jones	March 16, 2018	NSWC Indian Head
6.	~+Julian Brinkley	March 16, 2018	Assistant Professor, Clemson University
7.	*+France Jackson	March 15, 2018	Intel
8.	+Marvin Andujar	July 24, 2017	Assistant Professor, University of South Florida
9.	+Chris Crawford	July 17, 2017	Assistant Professor, University of Alabama
10.	*+Andrea Johnson	June 30, 2015	Spelman College
11.	*Hanan Alnizami	December 17, 2014	Jaguar Land Rover Research
12.	+Tamirat Abegaz	November 17, 2014	Assistant Professor, University of North Georgia
13.	*+Aqueasha Martin-Hammond	July 18, 2014	Assistant Professor IUPUI
14.	+Joshua Ekandem	July 18, 2014	Intel
15.	+Kinnis Gosha	April 3, 2013	Assistant Professor, Morehouse College
16.	~+Ignacio Javier Álvarez Martínez	December 18, 2012	Intel
17.	*+Christin D. Shelton	May 14, 2012	Consultant
18.	*+Shanee Dawkins	August 25, 2011	Research Scientist at NIST
19.	*+Wanda Eugene	March 23, 2011	Research Scientist at University of Florida
20.	+Caio V. Soares	July 28, 2010	Intuit
21.	*+Yolanda McMillian	June 15, 2010	Teaching Specialists, Michigan State University
22.	*+Philicity K. Williams	May 21, 2010	U.S. Department of Defense
23.	Kenneth Rouse	July 21, 2009	Associate Professor, Computer Science at LeTourneau University
24.	+E. Vincent Cross, II	April 24, 2009	Senior Research Scientist, TRACLabs



25.	David Thornton	July 14, 2008	Associate Professor, Jacksonville State University
26.	*+Dale-Marie Wilson	July 12, 2006	Associate Professor, UNC- Charlotte
27.	Yapin Zhong	September 16, 2003	

### **Masters Graduates (Major Professor)**

	<b>Graduate Student</b>	<b>Graduation Date</b>	<b>Degree</b>
1.	*Divyalakshmi Mahendran	December 2017	M.S.
2.	*+Jessica N. Jones	December 2014	M.S.
3.	*+Naja Mack	December 2013	M.S.
4.	+Phillip Hall	December 2013	M.S.
5.	+Jerone Dunbar	December 2013	M.S.
6.	*Alison Nolan	December 2013	M.S.
7.	*+France Jackson	May 2013	M.S.
8.	John Mark Smotherman	December 2012	M.S.
9.	*Lingyan Wang	October 21, 2009	M.S.
10.	*Vasavi Chilamantula	October 21, 2009	M.S.W.E.
11.	*Anjeli Singh	October 20, 2009	M.S.
12.	*+Shanee Dawkins	October 20, 2009	M.S.
13.	*Wanda Moses	August 10, 2009	M.S.
14.	*Yueqin Lin	August 6, 2009	M.S.W.E.
15.	+Jerome McClendon	July 20, 2009	M.S.
16.	Josh Stephens	June 12, 2009	M.S.W.E.
17.	+Gregory Rogers	May 4, 2009	M.S.
18.	+Cairo Soares	April 11, 2009	M.S.
19.	Jamey White	July 16, 2008	M.S.W.E.
20.	*Philicity K. Williams	April 9, 2008	M.S.
21.	*Jennifer Garmon	May 7, 2007	M.S.W.E.
22.	*+Andrea Williams	April 17, 2007	M.S.
23.	*Ashley Wachs	April 6, 2007	M.S.
24.	*Kathryn Nobles	April 5, 2007	M.S.
25.	Derek Anderson	April 5, 2007	M.S.W.E.

26.	<sup>+</sup> Kinnis Gosha	April 2, 2007	M.S.
27.	<sup>++</sup> Christin Hamilton	December 6, 2006	M.S.W.E.
28.	Spencer Lee	August 4, 2006	M.S.
29.	<sup>++</sup> Alexandria Williams	June 30, 2006	M.S.
30.	Chao Wang	June 9, 2006	M.S.
31.	Sanjith David	May 12, 2006	M.S.W.E.
32.	Billy T. Baker	July 13, 2005	M.S.W.E.
33.	<sup>+</sup> Andre Murphy	April 8, 2005	M.S.W.E.
34.	<sup>++</sup> Michele Williams	April 8, 2005	M.S.W.E.
35.	<sup>+</sup> E. Vincent Cross, II	January 14, 2005	M.S.W.E.
36.	<sup>+</sup> Nicholas J. Parks	November 29, 2004	M.S.W.E.
37.	<sup>*</sup> Tongmin Shen	October 5, 2004	M.S.
38.	<sup>*</sup> Priyanka Gupta	July 7, 2004	M.S.
39.	<sup>++</sup> Bettina Cornelius	July 2, 2004	M.S.
40.	<sup>*</sup> Kristie Goss	May 5, 2004	M.S.
41.	<sup>*</sup> Sangeeta Garhyan	May 4, 2004	M.S.
42.	<sup>*</sup> Laura McDonald	April 12, 2004	M.S.W.E.
43.	<sup>*</sup> Michelle Howell	November 6, 2003	M.S.W.E.
44.	<sup>+</sup> Adeoye O Adeyemo	July 17, 2003	M.S.W.E.
45.	<sup>*</sup> Yifang Gu	July 16, 2003	M.S.W.E.
46.	Yu Zhang	July 16, 2003	M.S.W.E.
47.	<sup>++</sup> Tanecia K. Simmons	June 16, 2003	M.S.W.E.
48.	<sup>*</sup> Weihong Hu	May 21, 2003	M.S.
49.	<sup>++</sup> Dale-Marie Wilson	December 5, 2002	M.S.
50.	<sup>*</sup> Xiaoyan Qi	October 25, 2002	M.S.W.E.
51.	<sup>*</sup> Yuehua Lin	July 26, 2002	M.S.
52.	Dackral Phillips	July 9, 2002	M.S.
53.	<sup>*</sup> Nupura Kolwalkar	June 26, 2002	M.S.W.E.
54.	Haiyu Qi	May 30, 2002	M.S.W.E.

## **Postdoctoral Researchers Advised**

	<b>Postdoc Researcher and Institution</b>	<b>Dates</b>
1.	*+Jeremy A. Waisome (U. of Florida)	2017 - 2020
2.	+Edward Dillon (U. of Alabama)	2013 - 2016
3.	*+Wanda Eugene (Auburn University)	2013 - 2017
4.	+Jamie Macbeth (UCLA)	2013 - 2014
5.	*+Deidra Morrison (Northwestern University)	2009 – 2011
6.	+Shaun Gittens (U. of Maryland College-Park)	2007 – 2008

## **Undergraduate Honors Thesis Advised**

	<b>Researcher and Institution</b>	<b>Dates</b>
1.	+Anthony Colas (U. of Florida)	12/9/2016

‘\*’ – female; ‘+’ – minority; ‘~’ – co-advisor