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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, 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 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 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: \$18,763,697.78 - Gilbert Share: \$7,336,074.78)

1. Thompson, M., Gilbert, J.E., Morrison, D., **Epidemiology of Sexual Violence: A Trajectory-based Approach**, NIH, 7/1/2012 – 6/30/2013, \$128,017.
2. Gilbert, J.E., **Interface and Visual Design Research**, BMW, 3/1/2012 – 2/28/2013, \$32,000.
3. Gilbert, J.E., **Presidential Award for Excellence in Science, Mathematics and Engineering Mentoring (PAESMEM)**, NSF, (2011), \$25,000.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. Gilbert, J.E., **In-Vehicle Voice User Help Research**, BMW, 7/1/2011 – 7/31/2012, \$46,550.
10. Gilbert, J.E., **CI Fellows Postdoc**, Computing Research Association, 9/14/2010 – 9/13/2011, \$127,500.
11. 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.
12. 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.
13. Gilbert, J.E., **CI Fellows Postdoc**, Computing Research Association, 9/7/2009 – 9/6/2010, \$140,000.

14. 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.
15. 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.
16. 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.
17. 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.
18. Gilbert, J.E. **Everyone Counts: Voice User Interface Demonstration Prototype**, Everyone Counts, Inc., 7/2008 – 8/2008, \$4,088.
19. 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.
20. Gilbert, J.E. **Accessibility in Online Electronic Voting**, Everyone Counts, Inc., 1/2008 – 7/2008, \$15,000.
21. Watts, I.E. (PI) & Gilbert, J.E., **Tallapoosa Assistance Program (TAP)**, State of Alabama - Tallapoosa County, 10/1/2007 – 9/30/2008, \$28,289.
22. Gilbert, J.E., **Total System Services Inc. Distinguished Professorship**, Total System Services Inc. Gift, 10/1/2007 – 10/1/2008, \$100,000.
23. 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.
24. 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.
25. Gilbert, J.E. (PI), **NSF IIS HCC: Prime III: Studying Usability & Security in Electronic Voting for Everyone**, NSF, 5/15/2007 – 8/15/2008, \$93,056.
26. Gilbert, J.E., **Total System Services Inc. Distinguished Professorship**, Total System Services Inc. Gift, 10/1/2006 – 10/1/2007, \$100,000.

27. Gilbert, J.E., **Microsoft Research External Research Fund**, Microsoft Corporation Research Gift, 6/1/2006 – 12/1/2007, \$5,000.
28. Gilbert, J.E. **Auburn University Outreach Scholarship Grant**, 8/2006 – 8/2007, \$14,000.
29. 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.
30. 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.
31. Gilbert, J.E. (PI), **Producers Cattle Auction: Online Auction**, Producers Cattle Auction, 2/15/2006 – 5/15/2006, \$2,909.78.
32. Gilbert, J.E. (PI), **Producers Cattle Auction: Online Auction**, Producers Cattle Auction, 1/1/2004 – 10/1/2005, \$12,225.
33. Watts, I.E. (PI) & Gilbert, J.E., **Tallapoosa Assistance Program (TAP)**, State of Alabama - Tallapoosa County, 1/10/2005 – 1/10/2006, \$30,273.
34. Gilbert, J.E. (PI) & Chapman, R., **E-Citation Usability Study**, University of Alabama, 6/2004 – 12/2004, \$25,000.
35. Gilbert, J.E. (PI) & Dozier, G. V., **Distributed Data Mining**, Auburn University Internet2 Research, 6/2004 – 7/2005, \$6,000.
36. 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.
37. Gilbert, J.E. **Auburn University Competitive Research Grant**, 5/2003 – 5/2004, \$3,000.
38. Gilbert, J.E. **Auburn University Internet2 Equipment Research Grant**, 6/2003 – 6/2004, \$8,000.
39. Watts, I.E. (PI) & Gilbert, J.E., **Tallapoosa Assistance Program (TAP)**, State of Alabama - Tallapoosa County, 11/1/2003 – 10/1/2004, \$29,572.
40. Gilbert, J.E., **Mobile and Pervasive User Interfaces for Information Retrieval**, Auburn University - Competitive Research Grant, 5/2003-5/2004, \$3,000.

41. Chapman, R. (PI) & Gilbert, J.E., **VLETS Fieldable Phone System**, University of Alabama Subcontract, 5/2003 – 9/2003, \$39,471.
42. 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.
43. Gilbert, J.E. **NSF Graduate Research Fellowship**, 1/2003 – 9/2003, \$18,544.
44. Gilbert, J.E. (PI), **Summer Technology Outreach Grant II**, Auburn University, 5/2004 – 9/2004, \$16,000.
45. Gilbert, J.E. (PI), **Summer Technology Outreach Grant**, Auburn University, 5/2003 – 9/2003, \$35,231.
46. Watts, I.E. (PI) & Gilbert, J.E., **Tallapoosa Assistance Program (TAP)**, State of Alabama - Tallapoosa County, 1/1/2003 – 10/1/2003, \$60,818.
47. 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.**
48. Chapman, R., Chang, K., & Gilbert, J.E., **Voice Interface for Wireless Law Enforcement Systems**, University of Alabama, 10/2002 – 5/2003, \$20,000.
49. 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. 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.
2. 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.
3. 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.

4. 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.
5. 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.
6. 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.
7. Gilbert, J.E., McMillian, Y., Rouse, K., Williams, P., Rogers, G., McClendon, J., Mitchell, W., Gupta, P., Mkpog-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.
8. 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.
9. Dawkins, S. & Gilbert, J.E., (2010) **Accessible, Private, and Independent Voting: The Prime III Voting System**. *User Experience*, 9, 2, pp. 16.
10. 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.
11. 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.
12. 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.
13. 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.

14. 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.
15. Gilbert, J.E. & Swanier, C. (2008) **Learning Styles: How do they fluctuate?** *Institute for Learning Styles Research Journal*, Volume 1, Fall 2008, pp. 29 – 40.
16. Lodree, A.W., Moore, J.L. & Gilbert, J.E. (2008) **Using Animated Agents for Postsecondary Mathematics**. *Journal of Educational Technology*, 5,1, pp. 31 – 37.
17. Gilbert, J.E. & Lewis, C. (2008) **An Investigation of Computational Holistic Evaluation of Admissions Applications for a Minority Focused STEM Research Program**. *Journal of STEM Education: Innovations and Research*, 9,1, pp. 1-8.
18. Gilbert, J.E. (2008) **Applications Quest: A Case Study on Holistic Admissions**. *Journal of College Admission*, Spring 2008, pp. 12 – 18.
19. Gilbert, J.E., Arbuthnot, K., Hood, S., Grant, M.M., West, M.L., McMillian, Y., Cross, E. V., Williams, P. & Eugene, W. (2008) **Teaching Algebra Using Culturally Relevant Virtual Instructors**. *The International Journal of Virtual Reality*, 7,1, pp. 21-30.
20. Gilbert, J.E., Williams, A. & Seals, C.D. (2007) **Clustering for Usability Participant Selection**. *Journal of Usability Studies*, 3,1, pp. 41 – 53.
21. Gilbert, J.E. & Goss, K., (2007) **A Multiple Approach Is Best**. *Speech Technology*, 12,6, *Information Today*, pp. 40 - 41.
22. Hura, S.L., Polkosky, M.D., & Gilbert, J.E. (2006) **Point, Counterpoint: What Three Experts Say About Speech Usability**. *User Experience*, 5,3, Usability Professionals' Association, pp. 16 – 18.
23. Gilbert, J.E. (2006) **Making a Case for BPC**. *Computer*, 39,3, IEEE Computer Society, pp. 83 – 86.
24. Gilbert, J.E. (2006) **Applications Quest: Computing Diversity**. *Communications of the ACM*, 49,3, ACM, pp. 99 – 104.
25. Zhong, Y. & Gilbert, J.E. (2005) **A Context-Aware Language Model for Spoken Query Retrieval**. *International Journal of Speech Technology*, 8, 2, Springer, pp. 203-219.

26. Gilbert, J.E., Chapman, R. & Garhyan, S. (2005) **VoiceLETS Backs Up First Responders**, *IEEE Pervasive Computing* 4,3, IEEE Computer Society, pp. 92 - 96.
27. Gilbert, J.E., Wilson, D. & Gupta, P. (2005) **Learning C With Adam**. *International Journal on E-Learning*, 4,3, Association for the Advancement of Computing in Education. pp. 337-350.
28. Gilbert, J. E. (2005). **E-Commerce & Web Branding: A Use For Persuasive Technologies**. *BDPA Journal Online*, 20,9, pp. 16 – 17.
29. Lin, Y. & Gilbert, J.E. (2005) **An Effectiveness Study of Online Advertising Models**. *Entrepreneurship Policy Journal*. April 2005, volume 2, pp. 120 – 127.
30. Gilbert, J.E. & Han, C. Y. (2002) **Arthur: A Personalized Instructional System**. *Journal of Computing In Higher Education*. 14, 1. Norris Publishers, Amherst, MA.
31. Gilbert, J. E. & Han, C. Y. (1999) **Adapting Instruction in Search of "A Significant Difference"**. *Journal of Network and Computing Applications*, 22, pp. 149-160.

Edited Proceedings Appearing in Refereed Journals

32. Gilbert, J. E. AIED 2001 Workshop on Assessment Methods in Web-Based Learning Environments & Adaptive Hypermedia. *International Journal of Artificial Intelligence In Education*, 12 (2001) pp. 1020-1029.

Commentaries Appearing in Refereed Journals

33. Gilbert, J.E., (2011). **Succeeding in the Academic Job Search**. *SHPE (Society of Hispanic Professional Engineers)*, 13, 3, pp. 44-45.
34. Leneer, P. E., Chandler, R., Gilbert, J., Giles, R., McMullen, W., Taylor, V. & York, B., (2002) **The Institute for African American E-Culture**. *Community Technology Review Journal Online* [Online], 7, 1. [Winter-Spring 2002 Issue].

Refereed Conference Proceedings

35. Alvarez, I., Alnizami, H., Dunbar, J., Johnson, A., Jackson, F., & Gilbert, J.E. (2011) **Designing Driver-centric Natural Voice User Interfaces**. In Adjunct Proceedings of the 3rd International Conference on Automotive User Interfaces and Interactive Vehicular Applications, Salzburg, Austria, pp. 166-169.

36. Gosha, K., James, M., Janifer, A. & Gilbert, J.E. (2011). **The Development of the Online Graduate Student Panel Experience for African American STEM Graduate Students**. In Proceedings of World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education 2011 (pp. 151-157). Chesapeake, VA: AACE.
37. Andujar, M., Ekandem, J., Alvarez, I., James, M. & Gilbert, J.E. (2011). **Are Educational Video Games All They're Cracked Up To Be?: A Physiological Approach For Measuring Engagement in Educational Video Games vs. Conventional Learning Techniques**. In Proceedings of World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education 2011 (pp. 539-544). Chesapeake, VA: AACE.
38. Kwon, W.-S., Chattaraman, V., & Gilbert, J. E. (2011). **Roles of virtual sales associates in enhancing older consumers' satisfaction and loyalty: Relational versus functional service quality**. In H. Timmermans (Ed.), Proceedings of the 18th Recent Advances in Retailing and Services Science Conference (p. 92). San Diego, CA: European Institute of Retailing and Services Studies.
39. Kwon, W.-S., Chattaraman, V., Shim, S. I., Alnizami, H., & Gilbert, J.E. (2011). **Older user-computer interaction on the Internet: How conversational agents can help**. In J.A. Jacko (Ed.), Human-Computer Interaction, Part II: Proceedings of the 14th HCI International 2011 Conference (pp. 533–536.) Berlin, Heidelberg: Springer-Verlag.
40. Wang, L., Moses, W., Ekandem, J., & Gilbert, J.E. (2011) **AADMLSS Practice: A Culturally Relevant Algebra Tutor**, In Proceedings 11th IEEE International Conference on Advanced Learning Technologies (ICALT 2011); July 7, 2011; Athens, GA, pp. 98-99.
41. Gilbert, J.E., Johnson-Stokes, W., Darnell, S.S., Ekandem, J.I., Alnizami, H., Martin, A.M., (2011) **Accessible Voting: One Machine, One Vote for Everyone**. ACM CHI '11 Video Presentation, Vancouver, CA, May 10, 2011.
42. Darnell, S.S., Alvarez, I., Ekandem, J.I., Woodard, D.L. and Gilbert, J.E. (2011), **MyDash: The Biometric Digital Dashboard**, In Proceedings of the 3rd Workshop on Multimodal Interfaces for Automotive Applications (MIAA '11) organized at the 2011 International Conference on Intelligent User Interfaces (IUI '11), February 13, 2011, Palo Alto, CA, pp. 53-56.
43. Alvarez, I., Martin, A., Dunbar, J., Taiber, J., Wilson, D., & Gilbert, J.E., **Voice Interfaced Vehicle User Help**, In Proceedings of the 2nd International Conference on Automotive User Interfaces and Interactive Vehicular Applications (AutomotiveUI 2010), pages. 42-49, Pittsburgh, PA.

44. (Paper of Distinction)
Shim, S., Chattaraman, V., Kwon, W.-S., & Gilbert, J.E. (October, 2010). **Virtual Shopping Agents for Mature Consumers: Are They Social or Technical Support?** In Proceedings of the Annual Meeting of International Textile and Apparel Association (No. 67). Montreal, Canada.
45. Kwon, W.S., Chattaraman, V., & Gilbert, J.E. (October, 2010). **The role of virtual sales associates in enhancing aging consumers' e-Store patronage intent.** In Proceedings of the Annual Meeting of International Textile and Apparel Association (No. 67). Montreal, Canada.
46. Smotherman, J., Gosha, K. & Gilbert, J.E. (2010). **The Construction of a Multitouch Table Application for Peer Assisted Learning in Early Childhood Classrooms.** In Proceedings of World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education 2010, pages. 2719-2724, Chesapeake, VA: AACE.
47. Dawkins, S., Hamilton, L., Sullivan, T., Gilbert, J.E. (2010). **Universally Usable Privacy in Write-In Voting.** In Proceedings of the 6th Symposium on Usable Privacy and Security (SOUPS), Redmond, Washington, July 15, 2010.
48. Dawkins, S. & Gilbert, J.E. (2010) **An Approach for Anonymous Spelling for Voter Write-Ins Using Speech Interaction.** In Proceedings of the NAACL HLT 2010 Workshop on Speech and Language Processing for Assistive Technologies, pages 44-52, Los Angeles, California, June 5, 2010.
49. Gosha, K., Moses, W., Wachs, A. & Gilbert, J.E. (2010) **Creation of a Voice User Interface Survey for Dynamic Service Feedback.** ACM Southeast Conference, Oxford, MS, April 15-17, 2010.
50. Soares, C., Williams, P., Gilbert, J.E. & Dozier, G. (2010) **A Class-specific Ensemble Feature Selection Approach for Classification Problems.** ACM Southeast Conference, Oxford, MS, April 15-17, 2010.
51. Wilson, D.M., Martin, A. & Gilbert, J.E. (2010) **'How May I Help You'-Spoken Queries for Technical Assistance.** ACM Southeast Conference, Oxford, MS, April 15-17, 2010.
52. Williams, P., Soares, C., & Gilbert, J.E. (2010) **A Clustering Rule-based Approach to Predictive Modeling.** ACM Southeast Conference, Oxford, MS, April 15-17, 2010.
53. Morrison, D., Alnizami, H., Dawkins, S., Eugene, W., Martin, A., Moses, W. & Gilbert, J.E. (2010) **Supporting License Plate Queries for First Responders Using the VoiceLETS System.** ACM Southeast Conference, Oxford, MS, April 15-17, 2010.

54. Gosha, K., Moses, W., & Gilbert, J.E. (2010) **The Creation of a Service Queue Management System on Barbershop Administration**. ACM Southeast Conference, Oxford, MS, April 15-17, 2010.
55. Kwon, W., Chattaraman, V., & Gilbert, J.E., (2010), **Effects of Conversational Agents in Retail Web Sites on Aging Consumers' Interactivity and Perceived Benefits**, *In Proceedings of the 28th ACM Conference on Human Factors in Computing Systems CHI 2010 Workshop Senior-Friendly Technologies: Interaction Design for the Elderly*, April 10, 2010, Atlanta, GA, pp. 40-43.
56. Gosha, K., Billionniere, E., Gilbert, J. & Ramsey, M. (2010). **Developing a Framework for Teacher Professional Development Using Online Social Networks**. In C. Crawford et al. (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference 2010* (pp. 1449-1454). Chesapeake, VA: AACE.
57. Gosha, K., Billionniere, E. & Gilbert, J. (2010). **Towards the Creation of an Open Source Teacher Professional Development Distribution Community**. In C. Crawford et al. (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference 2010* (pp. 2977-2979). Chesapeake, VA: AACE.
58. Eugene, W. & Gilbert, J.E. (2010), **Mining for Culture: Reaching Out of Range**, *In Proceedings of iConference 2010*, February 3-6, 2010, University of Illinois at Urbana-Champaign, IL, pp. 55-59.
59. Chattaraman, V., Kwon, W.-S., Gilbert, J. E., & Johnson, O. (2009). **Older consumers, the Internet, and online shopping: A look at gender cohorts**. *In Proceedings of the 66th Annual Conference of the International Textile and Apparel Association*, October 28-31, 2009, Bellevue, WA.
60. Gosha, K., Gilbert, J. & Seals, C. (2009). **Towards the Construction of a Peer-Assisted Learning Tool using a Social Media Network**. *In Proceedings of World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education 2009*, October 26-30, 2009, Vancouver, BC, pp. 3500-3503.
61. Pham, T., Hess, R., Ju, C., Metoyer, R., & Gilbert, J.E., **What Does Diversity Look Like?** *In Proceedings of IEEE Information Visualization 2010*, Atlantic City, NJ, October 11 – 16, 2009.

62. Chattaraman, V., Kwon, W.-S., & Gilbert, J. (2009). **Social presence in online stores: Building social support and trust among older consumers** [CD-ROM]. In J. R. Evans (Ed.), *Retailing 2009: Strategic Challenges and Opportunities in Uncertain Times: Special Conference Series (Vol. XII): Proceedings of the 12th Triennial Triennial National Retailing Conference*. New Orleans, LA: The Academy of Marketing Science and the American Collegiate Retailing Association.
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102. (Best Paper Award)
Gilbert, J. E. & Han, C. Y. (1999). **Arthur: Adapting Instruction to Accommodate Learning Style.** In *Proceedings of WebNet 99: World Conference on the WWW and Internet*, Honolulu, HI: Association for the Advancement of Computing in Education, pp. 433-439.
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Book Chapters

106. Jackson, J.F.L., Charleston, L.J., Lewis, C.W., Gilbert, J.E., & Middleton, L.P., (2012). **Rising STEM Occupational Demands and Low African American Participation in Arizona's Scientific Workforce: Do Attitudes Toward STEM College Majors and Careers Matter?**, In K.A. Scott (Eds.), *The State of Black Arizona*, Arizona Community Foundation and APS, Volume 3, pp. 35-44.
107. Gilbert, J.E., **Ten in 10: A Reflective Examination of How A University in the South Graduated 10 African American Computer Science Ph.D.s in 10 Years**, In W. F. Tate and H. T. Frierson (Eds.), *Beyond Stock Stories and Folktales: African Americans Paths to STEM Fields*, United Kingdom: Emerald Group Publishing Limited, Volume 11, pp. 307-322.

108. (To Appear)
Jackson, J. F. L., Charleston, L. J., George, P. L., & Gilbert, J. E. **Factors that Attract African American Males to Computer Science: A Study of Aspiring and Current Professionals.** In M. C. Brown & T. E. Dancy (Eds.). *African American Males and Education: Examining the Convergence of Race and Identity, Information Age.*
109. Jackson, J. F. L., Gilbert, J. E., Charleston, L. J., Gosha, K. (2009). **Differential gender effects of a STEM-based intervention: An examination of the African American researchers in computing sciences program.** In H. T. Frierson, W. Pearson, J. H. Wyche (Eds.), *Black American Males in Higher Education: Research, Programs, and Academe.* Bingley, UK: Emerald, Volume 7, pp. 317-330.
110. Jackson, J. F. L., Gilbert, J. E., Charleston, L. J., George, P. L., Grenell, K. D. (in press) **Using Regional Data Collection to Inform University Led Initiatives: The Case of a STEM Education SWOT Analysis.** *New Directions for Institutional Research.*
111. Gilbert, J.E., Williams, P., Cross, E.V., Mkpogon-Ruffin, I., McMillian, Y., & Gupta, P. (2008). **Usability and Security in Electronic Voting.** *E-Voting: Perspectives and Experience,* Icfai University Press, pp. 74 – 80.
112. Gilbert, J.E. & Eugene, W. (2007). **Building the Future Black Faculty Pipeline.** In *AfroGEEKS: Beyond the Digital Divide,* Edited by Everett, A. and Wallace, A.J. pp. 285-293.
113. Gilbert, J. E. (2000). **Beating The Odds, African Americans in Computer Science.** Chapter 10 in Jones, L. (Ed.) *Brothers of the Academy: Up And Coming Black Scholars Earning Our Way in Higher Education,* Stylus Publishing. pp. 140-148.

Other Publications

114. Camp, T. & Gilbert, J.E. (2010) **Broader Impacts – Should You Care?** *Computing Research News: A Publication of the Computing Research Association,* 22,5, p. 2.
115. Blake, M.B. & Gilbert, J.E., (2010) **Black Computer Scientists in Academe: an Endangered Species?** *The Chronicle of Higher Education, Diversity in Academe,* September 24, 2010, pp. B35-B37.
116. Coney, L., Gilbert, J.E., Neumann, P.G., Nilsson, E., Pincus, J. & Schneier, B., (2008) **E-Deceptive Campaign Practices Report: Internet Technology & Democracy 2.0,** *Electronic Privacy Information Center,* October 20, 2008.
117. Gilbert, J.E. (2008) **Silos of Academe Thwart Diversity on Campuses,** *The Chronicle of Higher Education, Diversity in Academe,* September 26, 2008, pp. B45-B46.

118. Kaushansky, K., Gilbert, J.E., Hura, S. & Witt-Ehsani, S. (2008) **Moving the Conversation Forward**, speechTECHNOLOGY Magazine, May 2008, pp. 31- 35.
119. Gilbert, J.E., Jackson, J. & Seals, C. (2008) **African-American Researchers in Computing Sciences: A Model for Broadening Participation in Computing**. *Computing Research News: A Publication of the Computing Research Association*, 20,3, pp. 2, 23.
120. Gilbert, J.E., & Jackson, J.F.L. (2007). **M7 STEM White Paper**: Final report. Milwaukee, WI: Marquette University.
121. Bloom, J., Gilbert, J.E., Houwing, T., Hura, S., Issar, S., Kaiser, L., Larson, J.A., Leppik, D., Mailey, S., Mane, A., McTernan, F., McTear, M., Pollock, S., Shinn, P., Stifelman, L. & Wilson, D. (2005) **Ten Criteria for Measuring Effective Voice User Interfaces**, speechTECHNOLOGY Magazine, November/December 2005, pp. 31- 35.
122. Larson, J.A., Applebaum, T., Byrne, B., Giangola, J., Gilbert, J.E., Green, R.N., Hebner, T., Houwing, T., Hura, S., Issar, S., Kaiser, L., Kaushansky, K., Kilgore, R., Lai, J., Leppik, D., Mailey, S., Margulies, E., McArtor, K., McTear, M. & Sachs, R., (2005) **Ten Guidelines for Designing a Successful Voice User Interface**, speechTECHNOLOGY Magazine, January/February 2005, pp. 51 - 53.

Patents and Patent Applications

1. Gilbert, J.E. "System and Method for Instant Call Delivery," US 61/302,572, Published February 9, 2010. (Pending)
2. Gilbert, J.E. "Nominal Population Metric: Clustering of Nominal Application Attributes," US 2008/10183731 A1, Published July 31, 2008. (Pending)

Invited Talks/Keynotes

1. (Keynote)
Gilbert, J.E., **Trailblazers for the Next Generation**, Booker T. Washington Community Center 78th Annual Awards Dinner, Hamilton, OH, April 28, 2012.
2. Gilbert, J.E., **Advanced Learning Technologies and Culturally Relevant Computing**, University of Wisconsin-Madison, Madison, WI, April 20, 2012.
3. 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.
4. Gilbert, J.E., **Applications Quest: A Data Mining Approach to Diversity in Admissions**, University of Wisconsin-Madison, Madison, WI, April 20, 2012.

5. Gilbert, J.E., **Driver Distraction for Young Connected Drivers**, University of Wisconsin-Madison, Madison, WI, April 19, 2012.
6. (Keynote)
Gilbert, J.E., **Socially Inspired Computing: How Science & Technology Can Change the World!** Benedict College, Columbia, SC, April 3, 2012.
7. Gilbert, J.E., **One Machine, One Vote for Everyone**, TEDx Greenville, Greenville, SC, March 30, 2012.
8. 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.
9. 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.
10. Gilbert, J.E., **Revolutionized Teaching**, TEDxGreenvilleSalon, Greenville, SC, February 29, 2012.
11. (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.
12. 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.
13. Gilbert, J.E., **Reducing Driver Distraction for Young Connected Drivers**, Nuance Automotive Forum Detroit 2011, Detroit, MI, November 8, 2011.
14. Gilbert, J.E., **Universal Design in Electronic Voting: One Machine, One Vote for Everyone**, Iowa State University, Ames, IA, October 28, 2011.
15. Gilbert, J.E., **Effective Mentoring**, Southern Region Education Board, Institute on Teaching and Mentoring Junior Faculty Development Conference, Atlanta, GA, October 22, 2011.
16. (Franklin Visiting Scholar Lecture)
Gilbert, J.E., **Increasing the Accessibility of Voting through Universal Design**, University of Georgia, Athens, GA, October 17, 2011.

17. Gilbert, J.E., **Powering the Connected Car with Voice**, SpeechTEK 2011, New York, NY, August 8, 2011.
18. Gilbert, J.E., **Preparing for the Academic Job Market**, Empowering Leadership Alliance, Webinar, June 2, 2011.
19. (Anne Margaret Johnstone Lecture)
Gilbert, J.E., **Prime III: A Universally Designed Electronic Voting System**, University of Maine, Orono, ME, April 18, 2011.
20. Gilbert, J.E., **The African-American Distributed Multiple Learning Styles System: An Ethnocomputing Approach to Teach Algebra**, Morehouse College, Atlanta, GA, March 1, 2011.
21. (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.
22. (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.
23. (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.
24. Gilbert, J.E., **Innovations in Research through Human-Centered Computing**, Langston University, Langston, OK, November 18, 2010.
25. Gilbert, J.E., **Prime III: The Next Generation of Electronic Voting Research**, IEEE Oklahoma City Section, Oklahoma City, OK, November 17, 2010.
26. (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.

27. 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.
28. (Keynote)
Gilbert, J.E., **Creating Critical Mass: Recruiting and Mentoring a Diverse Research Group**, Colorado School of Mines, Golden, CO, October 28, 2010.
29. Gilbert, J.E., **Using Technology to Achieve Diversity: A New Strategy for Affirmative Action**, Colorado School of Mines, Golden, CO, October 28, 2010.
30. Gilbert, J.E., **Entrepreneurship & the Professoriate**, Colorado School of Mines, Golden, CO, October 28, 2010.
31. Gilbert, J.E., **Hip-Hop, Video Games and Math**. USA Science & Engineering Festival, Meet the Scientists! Washington, DC, October 23, 2010.
32. (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.
33. Gilbert, J.E., **Human-Centered Computing: People, Technology, Information and Policy**, Johnson C. Smith University Lyceum Series, Charlotte, NC, September 30, 2010.
34. 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.
35. Gilbert, J.E., **Why Should You Go to Graduate School?**, North Carolina A&T University, Greensboro, NC, September 23, 2010.
36. (Keynote)
Gilbert, J.E., **Entrepreneurship and the Professoriate: Yes, Professors are Entrepreneurs Too**, STARS Alliance 5th Annual Celebration 2010, ChampionsGate, FL, August 8, 2010.
37. Gilbert, J.E., **Accessible Voting**. U.S. Election Assistance Commission, Washington, DC, August 5, 2010.
38. Gilbert, J.E., **Alphanumeric Recognition of License Tag Data**, SpeechTEK 2010, New York, NY, August 2, 2010.

39. 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.
40. Gilbert, J.E., **VoiceTEXT vs. Voice to Text**, York One Academy, York, SC, May 25, 2010.
41. Gilbert, J.E., **Tenure and Promotion: Rules of Engagement**, South East Alliance for Graduate Education and the Professoriate, Atlanta, GA, May 18, 2010.
42. Gilbert, J.E., **Texting While Driving: Is There A Safe Alternative?**, Colorado School of Mines, Golden, CO, May 3, 2010.
43. Gilbert, J.E., **Driver Distraction**, Networked Vehicle Association Conference: Apps on Wheels, Stanford University, San Joses, CA, April 28, 2010.
44. Gilbert, J.E., **Publishing for Success**, NSF Minority Faculty Development Workshop, Massachusetts Institute of Technology, Cambridge, MA, March 23, 2010.
45. Gilbert, J.E., **Broadening Participation in Computing: Service or Research?**, University of North Carolina at Charlotte, Charlotte, NC, March 19, 2010.
46. Gilbert, J.E., **Prime III: Universal Design Research in Electronic Voting**, Georgia Institute of Technology, Gvu Brownbag Lecture Series, Atlanta, GA, March 11, 2010.
47. Gilbert, J.E., **Human Centered Computing and Technology Innovation**, Norfolk State University, Norfolk, VA, January 29, 2010.
48. Gilbert, J.E., **Socially Inspired Computing and Innovation: Solving National Problems**, Hampton University, Hampton, VA, January 28, 2010.
49. Gilbert, J.E. & Jackson, J.F.L., **Broadening Participation in Computing**, 8th National Conference on Black Student Achievement, Clemson University, Clemson, SC, January 25, 2010.
50. Gilbert, J.E., **Accessible Voting with Prime III**, San Francisco Voting System Task Force, San Francisco, CA, January 15, 2010.
51. Gilbert, J.E., **Incorporating Universal Design Principles into Electronic Voting**, University of Washington, Seattle, WA, November 10, 2009.
52. Gilbert, J.E., **Diversity Redefined in the New Affirmative Action Era**, University of Washington, Seattle, WA, November 10, 2009.

53. 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.
54. Gilbert, J.E., **Why Should You Go To Graduate School?**, Tuskegee University, Tuskegee, AL, October 21, 2009.
55. Gilbert, J.E., **Navigating the Academy for Career, Leadership and Community**, 2009 Conference of Ford Fellows, Beckman Center, National Academies, October 16, 2009.
56. 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.
57. Gilbert, J.E., **Affirmative Action Redefined through Technology**, Kean University, Union, NJ, October 5, 2009.
58. Gilbert, J.E., **Incorporating Universal Design Principles in Electronic Voting**, Lamar University, Beaumont, TX, September 25, 2009.
59. 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.
60. Gilbert, J.E., **Standards, Security and Accessible Voting**. National Institute of Standards and Technology, Gaithersburg, MD, September 2, 2009.
61. Gilbert, J.E., **VUI Design for Anonymous Name Spelling in Public Environments**, SpeechTEK 2009, New York, NY, August 24, 2009.
62. 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.
63. Gilbert, J.E., **Prime III: Universal Accessibility in Voting**. U.S. Election Assistance Commission, Washington, DC, June 2, 2009.
64. 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**. 22nd Annual National Conference on Race & Ethnicity in American Higher Education, San Diego, CA, May 29, 2009.

65. Gilbert, J.E., **Security & Technology of Internet Voting**. Alabama League of Women Voters, Birmingham, AL, May 2, 2009.
66. 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.
67. Gilbert, J.E., **Why Should You Go To Graduate School?** Albany State University, Albany, GA, April 10, 2009.
68. Gilbert, J.E., **Applications Quest: Achieving Equity and Diversity in Admissions with Data Mining**. University of Florida, Gainesville, FL, March 23, 2009.
69. Gilbert, J.E., **Broadening Participation in Computing**. Prairie View A&M University, Prairie View, TX, March 12, 2009.
70. Gilbert, J.E., **Broadening Participation in Computing: Research, Graduate School and the Professoriate**. Fort Valley State University, Fort Valley, GA, March 6, 2009.
71. Gilbert, J.E., **The Prime III Voting System Project**. University of Maryland, Baltimore County, Baltimore, MD, February 20, 2009.
72. (Keynote)
Gilbert, J.E., **Computing Diversity in Higher Education in the 21st Century**. Arizona State University, Tempe, AZ, February 18, 2009.
73. 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.
74. Gilbert, J.E., **Applications Quest: A Computational Solution to Affirmative Action in the 21st Century**. University of Alabama, Tuscaloosa, AL, January 30, 2009.
75. 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.
76. Gilbert, J.E., **Modern Day Affirmative Action: Computing Race and Gender Conscious Admissions in the 21st Century**, Princeton University, Princeton, NJ, November 17, 2008.

77. (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.
78. Gilbert, J.E., **Usable Security in Electronic Voting**, Columbus State University, Columbus, GA, November 5, 2008.
79. Gilbert, J.E., **Prime III: The Intersection Between Usability and Security**, Clemson University, Clemson, SC, October 10, 2008.
80. (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.
81. Gilbert, J.E., **Computing in the 21st 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.
82. Gilbert, J.E., **A New Strategy for Affirmative Action**. National Academies, Washington, DC, September 17, 2008.
83. (Keynote)
Gilbert, J.E., **Changing The World Through Technology**, Spelman College, Atlanta, Georgia, September 8, 2008.
84. (Keynote)
Gilbert, J.E., **From the Classroom to the Boardroom in the Academic World**, BDPA 9th Annual Scholarship and Education Awards, BDPA Southern Minnesota Chapter, Rochester, MN, August 24, 2008.
85. Gilbert, J.E., **Prime III: A Multimodal Approach to Electronic Voting**, SpeechTEK 2008, New York, NY, August 19, 2008.
86. Gilbert, J.E. **Innovation: Where Computing and Societal Problems Meet**. 2008 STARS Celebration, Auburn, AL, August 12, 2008.
87. Gilbert, J.E. Congressional Testimony, Committee on Rules and Administration, **Bipartisan Electronic Voting Reform Act of 2008**, July 30, 2008, Washington, DC.
88. Gilbert, J.E. **Admissions Equity: Reality and Results**. Washington Duke Inn, Durham, NC, June 26, 2008.

89. Gilbert, J.E. **Prime III: Electronic Voting in the 21st Century**. Monmouth University, May 2, 2008.
90. Gilbert, J.E. **Can Holistic Admissions Replace Affirmative Action?** Education Writers Association, 61st Annual Conference, Chicago, IL, April 25, 2008.
91. Gilbert, J.E. **Achieving Diversity in the New Affirmative Action Era**. Virginia Tech, April 22, 2008.
92. 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.
93. (Keynote)
Gilbert, J.E. **Engineering Research and Innovation in the 21st Century**. 34th Annual National Society of Black Engineers Convention, Orlando, FL, March 22, 2008.
94. (Keynote)
Gilbert, J.E. **Entrepreneurship and Innovation in the Academy**. 20th National Black Graduate Student Association Conference, Chicago, IL, March 14, 2008.
95. Gilbert, J.E. **Secure, Equal Access for Everyone in Voting**. Auburn University Elderhostel, March 13, 2008.
96. Gilbert, J.E. **Prime III: A Multimodal Approach to Electronic Voting**. Voice Search Conference, San Diego, CA, March 10, 2008.
97. Gilbert, J.E. **Prime III: Innovations in Electronic Voting**. Information Technology & Innovation Forum, Capitol Hill, Washington, D.C. March 6, 2008.
98. (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.
99. Gilbert, J.E. **Community, Technology and Innovation in the 21st Century**. Tuskegee University, Tuskegee, AL, February 22, 2008.
100. (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.
101. 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.

102. Gilbert, J.E. **Achieving Diversity Without Preference in the New Affirmative Action Era.** University of Colorado-Boulder, Boulder, CO, February 6, 2008.
103. Gilbert, J.E. **Achieving Diversity Without Preference in the New Affirmative Action Era.** Wayne State University Law School, Detroit, MI, January 23, 2008.
104. Gilbert, J.E. **Community Benefits of Technological Progression and Advancement.** People of Action for Community Enrichment, Opelika, AL, January 19, 2008.
105. 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.
106. Gilbert, J.E. **Electronic Voting for Senior Citizens.** Osher Lifelong Learning Institute, Auburn, AL, January 14, 2008.
107. 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.
108. Gilbert, J.E. **Prime III: A Usable Security Model for Electronic Voting,** Carnegie Mellon University, Pittsburgh, PA, September 12, 2007.
109. 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.
110. Gilbert, J.E. **Prime III: A Multimodal Electronic Voting Platform.** National BDPA Conference, Washington, DC, August 15, 2007.
111. 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.
112. Gilbert, J.E. **Prime III: One Machine, One Vote for Everyone.** IBM, Charlotte, NC, June 14, 2007.
113. Gilbert, J.E. **Innovation and Diversity in the 21st Century.** Rensselaer Polytechnic Institute, Troy, NY, April 25, 2007.
114. 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.

115. 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.
116. (Keynote)
Gilbert, J. E. **Prime III & The Future of Electronic Voting.** 29th Annual Leroy Roquemore Computer Science Symposium, Southern University, Baton Rouge, LA, March 15, 2007.
117. Cross, E.V. & Gilbert, J. E. **The Prime Voting System: Multimodality & Politics.** AVIOS/SpeechTEK West 2007, San Francisco, California, February 22, 2007.
118. Gilbert, J.E. **Applications Quest: Achieving Diversity in the Proposal 2 Era System,** University of Michigan, Ann Arbor, MI, January 30, 2007.
119. Gilbert, J.E. **The Prime Voting System: A Secure, Multimodal Electronic Voting System,** Northwestern University, Evanston, IL, January 16, 2007.
120. Gilbert, J.E. **Intelligent Instruction with Computer Assisted Pedagogy,** Juxtapia Urban Learning Technology (JULT) Conference, Baltimore, MD, December 2, 2006.
121. Gilbert, J.E. **Race Conscious Policies in Education with Applications Quest,** Jackson State University, Jackson, MS, November 9, 2006.
122. 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.
123. (Keynote)
Gilbert, J.E. **Academic Jobs ... The Professoriate,** Southern Region Education Board, Institute on Teaching and Mentoring, Miami, FL, October 27, 2006.
124. (Keynote)
Gilbert, J.E. **Research, Mentoring, Graduate School and the Professoriate, Bring IT On!,** Indiana University, Bloomington, IN, October 20, 2006.
125. Gilbert, J.E., **Applications Quest: Affirmative Action, Race Neutral Admissions, and Holistic Review ... What's Really Fair?,** Indiana University, Bloomington, IN, October 20, 2006.
126. Gilbert, J.E., **Computing Diversity: Affirmative Action and Race Neutral Policies,** Cornell University, Ithaca, NY, September 13, 2006.

127. 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.
128. Gilbert, J.E., **Graduate School for the Working Professional**, 28th Annual National BDPA Conference, Los Angeles, California, August 2, 2006.
129. Gilbert, J.E., Esterman, M., & Geiger, C.D. **The Academic Job Search**, 8th Annual National GEM Consortium Symposium Future Faculty and Professionals Symposium, June 29, 2006, Chicago, Illinois.
130. Gilbert, J.E. **Applications Quest: Using Diversity in Admissions ... Computationally Speaking**, University of Georgia, Athens, GA, June 23, 2006.
131. (Commencement Speaker)
Gilbert, J.E., Hamilton High School Annual Commencement Ceremony, Millett Hall, Oxford, Ohio, June 5, 2006.
132. 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.
133. Gilbert, J.E., **Holistic Review in Admissions: Demonstrating a Computerized Tool**, American Association for the Advancement of Science, Washington DC, May 16, 2006.
134. 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.
135. Gilbert, J.E., **Applications Quest: Computing Diversity**, University of South Carolina, Columbia, South Carolina, April 14, 2006.
136. Gilbert, J.E., **The Next Black Ph.D. It's More Than Just Research**, Benedict College, Columbia, South Carolina, April 13, 2006.
137. Gilbert, J.E., **The Next Black Ph.D. It's More Than Just Research**, The National Society of Black Engineers 32nd Annual National Convention, Pittsburgh, PA, March 31, 2006.
138. Gilbert, J.E., **Show Me the Money, Careers in STEM**, Rufus King High School, Milwaukee, WI, March 29, 2006.
139. Gilbert, J.E., **Applications Quest: Computing Diversity**, Marquette University, Milwaukee, WI, March 28, 2006.

140. Gilbert, J.E., **Prime III Ushering in a New Age of Electronic Voting**, Marquette University, Milwaukee, WI, March 27, 2006.
141. Gilbert, J.E., **Preparing for Disaster with Technology**, Alabama Association of Assessing Officials Conference, Opelika, AL, March 1, 2006.
142. Gilbert, J. E. **The Holistic Usability Measure (HUM): Evaluating Spoken Language Systems**. AVIOS/SpeechTEK West 2006, San Francisco, California, January 31, 2006.
143. Gilbert, J.E., **Is The Ph.D. Really Worth?: Transitioning To Graduate School**, Albany State University, Albany, GA, January 28, 2006.
144. Gilbert, J.E., **Broaden Participation in STEM or Else**, Morehouse College, Atlanta, GA, January 17, 2006.
145. 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.
146. (Keynote)
Fun-Set Social and Charity Club Beautillion Ball 2005, Huntsville, AL, November 19, 2005.
147. Gilbert, J.E., **The Usability of Usability**, World Usability Day, Auburn University, Auburn, AL, November 3, 2005.
148. Gilbert, J.E., **Applications Quest: Computing Diversity to Address Affirmative Action**. University of North Carolina Charlotte, Charlotte, NC, October 14, 2005.
149. 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.
150. Gilbert, J.E., **Applications Quest: Using Technology to Address Affirmative Action**, 27th Annual National BDPA Conference, Detroit, MI, August 20, 2005.
151. Gilbert, J.E., **Distributed Listening**, Advanced Speech Technologies Symposium: Emerging Technologies, SpeechTEK Conference, August 1, 2005.
152. Gilbert, J.E., **Applications Quest: Computing Diversity to Address Affirmative Action**. Rice University, Houston, TX, July 29, 2005.
153. 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.

154. 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.
155. Gilbert, J.E., **Using Culture and Diversity to Recode the Matrix of the New Millennium Workforce**. Rensselaer Polytechnic Institute, Troy, NY, April 21, 2005.
156. 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.
157. Gilbert, J.E., **Distributed Listening: Improving Speech Recognition Accuracy**, Virginia Polytechnic Institute and State University, Blacksburg, VA, February 3, 2005.
158. Gilbert, J.E., **Application Quest: Computing Diversity**, Virginia Polytechnic Institute and State University, Blacksburg, VA, February 3, 2005.
159. Gilbert, J.E., **Application Quest: Computing Diversity**, Rensselaer Polytechnic Institute, Troy, NY, January 19, 2005.
160. Gilbert, J.E., **Application Quest: Computing Diversity**, Miami University, Oxford, OH October 29, 2004.
161. Gilbert, J.E., **Ask The Experts, Speech in Government/Public Sector**, SpeechTEK Conference, September 13, 2004.
162. 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.
163. Gilbert, J.E., **Spoken Language Systems Research**, University of Maryland College Park, June 17, 2004, College Park, Maryland.
164. Gilbert, J.E., **Building the Future Black Faculty Pipeline**, AfroGEEKS Conference, University of California Santa Barbara, May 7-8, 2004, Santa Barbara, California.
165. Gilbert, J.E., **Applications Quest: Using Technology to Address Affirmative Action**, Florida A&M University, April 20, 2004, Tallahassee, Florida.
166. Gilbert, J.E., **Speech User Interfaces for Information Retrieval**, University of Maryland, Baltimore County, April 6, 2004, Baltimore, Maryland.
167. Gilbert, J.E., **Global Information Technology**, The 4th Annual African American Leadership Summit, Miami University, February 21, 2004 Oxford, Ohio.

168. Gilbert, J.E. **“Using Technology to Diversify University Campuses”**, Auburn University Africana Studies Lecture Series, 208 Foy Union, January 15, 2004, Auburn University, Alabama.
169. Gilbert, J.E., **Voice LETS**, Criminal Justice Technology Symposium V , Marriott Grand Hotel, December 4, 2003, Point Clear, Alabama.
170. Gilbert, J.E., **Voice eVIAS**, Georgia Institute of Technology – Access Grid Presentation, June 17, 2003, Atlanta, Georgia.
171. Gilbert, J.E., **Going to Graduate School for Computer Science**, Tuskegee University, March 6, 2003, Tuskegee, Alabama.
172. Gilbert, J.E., **Technology for African American Survival: Tech Talk**, The 3rd Annual African American Leadership Summit, Miami University February 22, 2003, Oxford, Ohio.
173. Gilbert, J.E., **Information Verbalization**, University of Alabama-Birmingham, September 19, 2002, Birmingham, Alabama.
174. Gilbert, J.E., **An Introduction to VoiceXML: Adding Voice To Data**, BDPA 2002 24th Annual National Conference, August 9, 2002, Orlando, Florida.
175. 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.
176. Gilbert, J.E., **Animated Pedagogical Agents**, Southern Polytechnical State University, April 10, 2002, Marietta, Georgia.
177. Gilbert, J.E., **Making Learning Personal With Adaptive Instruction**, University of Houston Clear Lake, April 1, 2002, Houston, Texas.
178. Gilbert, J.E., **Finding Information With Your Voice (Anywhere, Anytime, Any Device)**, University of Houston Clear Lake, April 1, 2002 Houston, Texas.
179. Gilbert, J.E., **Making Learning Personal With Adaptive Instruction**, Vanderbilt University, March 24, 2002, Nashville, Tennessee.
180. Gilbert, J.E., **Technology in the Next Millennium**, The 2nd Annual African American Leadership Summit, Miami University, February 16, 2002, Hamilton, Ohio.

181. 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.
182. 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.
183. 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.
184. Gilbert, J.E., **Selecting Instructional Technology**, Xavier University, September 10, 1999, Cincinnati, Ohio.
185. Gilbert, J.E., **Electronic Commerce**, BDPA Cincinnati Chapter, Greater Cincinnati Urban League, August 11, 1999, Cincinnati, Ohio.
186. 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.
187. Gilbert, J.E., **Teaching with Interactive Media Now & in the Future**, Interactive Media Studies Conference '98, Miami University, November 20, 1998, Oxford, Ohio.
188. Gilbert, J.E., **JavaScript**, Greater Cincinnati Library Consortium, Cincinnati State Community College, November 10, 1998, Cincinnati, Ohio.
189. Gilbert, J.E., **Java**, Association for Computing Machinery Miami University Chapter, Miami University, October 21, 1998, Oxford, Ohio.
190. Gilbert, J.E., **JavaScript as a Web-Development Tool**, University of Cincinnati, December 4, 1997, Cincinnati, Ohio.
191. 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. Gilbert, J.E., Munakata Marr, J., Thomas, R.C., El Maghraoui, K., & Lasich, D., **Minority Women: Diversity and Mentoring in the Research Environment**, 11th Annual Conference for the Society of Women Engineers (SWE), Chicago, IL, October 15, 2011.
2. 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.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. Gilbert, J.E. **Opportunities in Diversity Research**. Auburn University, Auburn, AL, January 28, 2008.

10. 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.
11. 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.
12. 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.
13. 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.
14. 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.
15. 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.
16. Gilbert, J.E., Wilson, D. & Gupta, P., **Evaluating Voice User Interfaces Workshop,** SpeechTEK Conference, August 1, 2005.
17. 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.
18. Gilbert, J.E., **Voice User Interface Workshop,** SpeechTEK Conference, September 13, 2004.
19. 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.

20. (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

- 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**
- 2010 - **Fellow, American Association for the Advancement of Science (AAAS)**
- 2010 - **ACM Distinguished Scientist**
- 2008-
2012 **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 - **IEEE Computer Society Distinguished Visitors Program (DVP)**
2012
- 2009 **Speech Technology Magazine Speech Luminary Award Recipient**
- 2009 **University of Texas at Austin IC² Institute Global Fellow**
- 2009 **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**
- 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 at the GE Global Research Center.**
- 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 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

- 2009 – Present **Clemson University (Clemson, SC), Professor & Chair
Division of Human-Centered Computing**
- 2009 **Auburn University (Auburn, AL), Professor**
- 2005 – 2009 **Auburn University (Auburn, AL), Associate Professor**
- 2007 – Present **President and Chief Technology Officer, Applications Quest, LLC.
-<http://www.ApplicationsQuest.com/>**
- 2009 – Present **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
- 2000 – 2005 **Auburn University (Auburn, AL), Assistant Professor**
- 2000 – Present **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

Consulting

- 2007 **Marquette University, Milwaukee, Wisconsin**
*Science, Technology, Engineering and Mathematics Regional Analyst
- 2007 **Montgomery County Community Corrections, Montgomery, AL**
*Software Development Consultant

- 2007 **Washington University, St. Louis, Missouri**
*Diversity Consultant
- 2006 **Tier Technologies, Inc. Auburn, AL**
*Voice User Interface Consultant
- 2004 – 2005 **College Broadband, Inc.**
*Developed the backend database for CollegeBroadband.com
- 2004 **Trinsic, Inc. (formerly Z-Tel)**
*Conducted usability studies of their voice user interface
- 7/30/2003 **Florida State University College of Education**
*Conducted a workshop on Animated Pedagogical Agents and the Haptik Agent platform.
- 2002 – 2003 **National Center for Supercomputing Applications (NCSA)**
* Developed Voice Interface to elVIAS search engine web portal
- 1997 – 2002 **VideoDesk Productions**
*Website development & Interface Consulting
*20th Century Interactive CD-ROM
-Developed an interactive CD-ROM (30,000 copies)
-<http://www.20thcenturyinteractive.org/>
- 10/16/2000 - **Training Solutions Orlando, FL**
10/18/2000 *Trained IBM/ATT Employees on the Teradata 5100 Database

Memberships

American Association for the Advancement of Science (AAAS)

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

ACM U.S. Public Policy Committee (USACM) (<http://usacm.acm.org/>)

Human Factors and Ergonomics Society (HFES)

Usability Professional's Association (UPA)

IEEE Computer Society

Human Factors Institute at Clemson University
(<http://www.clemson.edu/hfi/>)

Institute for Engaged Aging at Clemson University
(<http://www.hehd.clemson.edu/Aging/>)

American Society for Engineering Education (ASEE)

South Carolina Council for African-American Studies (SCCAAS)

International Artificial Intelligence in Education Society (AIED)

AACE (Association for the Advancement of Computing in Education)

American Association for People with Disabilities (AAPD)

American Education Research Association (AERA)

AVIOS (Applied Voice Input/Output Society)

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

Institute for African American eCulture (iAAEC)

Upsilon Pi Epsilon

BDPA (Black Data Processing Association)

American Association of Blacks in Higher Education (AABHE)

President of Brothers of the Academy Institute 2005 – Present

Kappa Alpha Psi Fraternity Inc.

Service

- 2011 – 2012 **Advisory Board Member for AAAS-NSF 2012 Emerging Researchers National (ERN) Conference in Science, Technology, Engineering and Mathematics (STEM)**
- 2010 – 2012 **NSF Computer & Information Science & Engineering (CISE) Advisory Committee Member**
- 2010 – 2013 **Member of the American Association for the Advancement of Science (AAAS) Board appointed Committee on Opportunities in Science (COOS)**
- 2010 – 2013 **American Association for the Advancement of Science (AAAS) Early Career Award for Public Engagement Selection Committee Member**
- 2011 – 2014 **Serving on Clemson University President’s Commission on the Status of Black Faculty and Staff**
- 2012 - **BMW Steering Circle Committee, Member**
- 2011 - **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 11th 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 **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 – Present **Advisory Board Member for Juxtopia Inc.**
- 2006 – Present **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 1st 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 26th Annual National BDPA Conference.**
- 2004 **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)

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

March 25, 2004 **The 4th 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 25th 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 – Present **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 2nd 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 7th and 8th graders from Loachapoka Junior High School.**

Graduate Students (Major Professor)

	Graduate Student	Graduation Date	Degree
1.	*+Shanee Dawkins	August 25, 2011	Ph.D.
2.	*+Wanda Eugene	March 23, 2011	Ph.D.
3.	+Caio V. Soares	July 28, 2010	Ph.D.
4.	*+Yolanda McMillian	June 15, 2010	Ph.D.
5.	*+Philicity K. Williams	May 21, 2010	Ph.D.
6.	*Lingyan Wang	October 21, 2009	M.S.
7.	*Vasavi Chilamantula	October 21, 2009	M.S.W.E.
8.	*Anjeli Singh	October 20, 2009	M.S.
9.	*+Shanee Dawkins	October 20, 2009	M.S.
10.	*Wanda Moses	August 10, 2009	M.S.
11.	*Yueqin Lin	August 6, 2009	M.S.W.E.
12.	Kenneth Rouse	July 21, 2009	Ph.D.
13.	+Jerome McClendon	July 20, 2009	M.S.
14.	Josh Stephens	June 12, 2009	M.S.W.E.
15.	+Gregory Rogers	May 4, 2009	M.S.
16.	+E. Vincent Cross, II	April 24, 2009	Ph.D.
17.	+Caio Soares	April 11, 2009	M.S.
18.	Jamey White	July 16, 2008	M.S.W.E.
19.	David Thornton	July 14, 2008	Ph.D.
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.	+Kinnis Gosha	April 2, 2007	M.S.
27.	*+Christin Hamilton	December 6, 2006	M.S.W.E.
28.	Spencer Lee	August 4, 2006	M.S.
29.	*+Dale-Marie Wilson	July 12, 2006	Ph.D.
30.	*+Alexandria Williams	June 30, 2006	M.S.
31.	Chao Wang	June 9, 2006	M.S.

32.	Sanjith David	May 12, 2006	M.S.W.E.
33.	Billy T. Baker	July 13, 2005	M.S.W.E.
34.	⁺ Andre Murphy	April 8, 2005	M.S.W.E.
35.	^{*+} Michele Williams	April 8, 2005	M.S.W.E.
36.	⁺ E. Vincent Cross, II	January 14, 2005	M.S.W.E.
37.	⁺ Nicholas J. Parks	November 29, 2004	M.S.W.E.
38.	[*] Tongmin Shen	October 5, 2004	M.S.
39.	[*] Priyanka Gupta	July 7, 2004	M.S.
40.	^{*+} Bettina Cornelius	July 2, 2004	M.S.
41.	[*] Kristie Goss	May 5, 2004	M.S.
42.	[*] Sangeeta Garhyan	May 4, 2004	M.S.
43.	[*] Laura McDonald	April 12, 2004	M.S.W.E.
44.	[*] Michelle Howell	November 6, 2003	M.S.W.E.
45.	Yapin Zhong	September 16, 2003	Ph.D.
46.	⁺ Adeoye O Adeyemo	July 17, 2003	M.S.W.E.
47.	[*] Yifang Gu	July 16, 2003	M.S.W.E.
48.	Yu Zhang	July 16, 2003	M.S.W.E.
49.	^{*+} Tanecia K. Simmons	June 16, 2003	M.S.W.E.
50.	[*] Weihong Hu	May 21, 2003	M.S.
51.	^{*+} Dale-Marie Wilson	December 5, 2002	M.S.
52.	[*] Xiaoyan Qi	October 25, 2002	M.S.W.E.
53.	[*] Yuehua Lin	July 26, 2002	M.S.
54.	Dackral Phillips	July 9, 2002	M.S.
55.	[*] Nupura Kolwalkar	June 26, 2002	M.S.W.E.
56.	Haiyu Qi	May 30, 2002	M.S.W.E.

‘*’ – female; ‘+’ – minority

Postdoctoral Researchers Advised

	Postdoc Researcher and Institution	Dates
1.	^{*+} Deidra Morrison (Northwestern University)	2009 – 2011
2.	⁺ Shaun Gittens (U. of Maryland College-Park)	2007 – 2008