

## Kinnis Gosha, Ph.D.

Assistant Professor  
Department of Computer Science  
Morehouse College  
Culturally Relevant Computing Lab, Director

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830 Westview Drive SW  
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Atlanta, GA 30314

**Areas:** Human Computer Interaction, Embodied Conversational Agents, Telementoring & Technology Entrepreneurship

## Education

August 2009 – May 2013 **Clemson University**  
Doctorate in Human Centered Computing  
Technology Entrepreneurship Certificate from Spiro Institute for Entrepreneurial Leadership  
Research Areas: Advanced Learning Technologies, Technology Entrepreneurship, Service Science, Database Systems & Human Centered Interaction  
Advisor: Dr. Juan E. Gilbert

August 2005 – July 2009 **Auburn University**  
Masters of Science in Computer Science (May 2007)  
Research Areas: Database Systems & Human Centered Interaction  
Advisor: Dr. Juan E. Gilbert

August 2001 – May 2005 **Albany State University** (Albany, Georgia)  
Bachelor of Science in Computer Science (Business Emphasis)

**Total Funding Amount (As PI or Co-PI):** \$7,605,502.00

## Federal Government Grants

1. **Gosha, K.** (2018) Pairing Atlanta High School Teachers with HBCU Computer Science Students to Train Them on AP Computer Science Principles, NSF, CISE, \$299,621. Status: **RECOMMENDED**
2. **Gosha, K.** & Davis, T. (2018) Excellence in Research: Evaluating the Use of Virtual Mentoring for HBCU Undergraduates in Computer Science, NSF, CISE, \$992,892. Status: **RECOMMENDED**
3. Hodge, M., **Gosha, K.**, Muldrow, L., & Blumer, L. (2018) HBCU Identity Research Center for STEM, NSF, HRD Division Of Human Resource Development, \$1,517,139. Status: **AWARDED**
4. Muldrow, L., **Gosha, K.** (2018) Targeted Infusion Project: Creation of a for Credit Online Scientific Literacy Pre-Freshmen Summer Bridge Program. Targeted Infusion Project, HBCU-UP, NSF, 2018-2020, \$399,999. Status: **AWARDED**
5. **Gosha, K.** (2017) HBCU-DCL EAGER: Preparing Underrepresented Students for the Engineering and Computer Science Professoriate Virtually Using Embodied Conversational Agents. Broadening Participation in Engineering, NSF, \$299,932, 2017-2019. Status: **AWARDED**
6. Haynes, C., **Gosha, K.**, Gerhardt, R., Mendez, S., Conley, V. (2017) Increasing Minority Presence within Academia through Continuous Training (IMPACT). Inclusion across the Nation of Communities of Learners of Underrepresented Discoverers in Engineering and Science, NSF. Status: **AWARDED**
7. Marshall, B., **Gosha, K.** (2015) Data Science eXtension (DSX): Incorporating data science fundamentals in computing curriculum at Spelman and Morehouse Colleges. HBCU-UP Targeted Infusion, NSF, \$395,660 (Morehouse Total: \$208,292) 2016-2019. Status: **AWARDED**

8. **Gosha, K.**, Marshall, B. (2015) Collaborative: Planning a Dual Institution Research Center in Socially Relevant Computing, CREST Broadening Participation Research, NSF, \$300,000, 2016-2019. Status: **AWARDED**
9. Muldrow, L., **Gosha, K.** (2015) Increasing Retention by Creating a Growth Mindset Culture with Utilitarian Scientific Literacy Skills, Minority Science and Engineering Improvement Program, Department of Education, \$750,000, 2015-2018. Status: **AWARDED**
10. **Gosha, K.**, Lewis, C., Albert, J. (2015) HBCU-UP Broadening Participation Research Project: Exploring Computing Careers through a Virtual Career Fair Using Embodied Conversational Agents, NSF, \$349,057, 2015-2018. Status: **AWARDED**
11. Muldrow, L., **Gosha, K.**, Crosby, N., Marks, B. (2014) Freshman Intervention and Retention in STEM Through Scientific, NSF, \$250,000, 2015-2017. Status: **AWARDED**

### Other Funded Proposals (including subawards)

12. **Gosha, K.** & Mack, N. (2018) Cyber Spectrum Collaborative Research Environment (C-SCORE). Clarkson Aerospace. Amount: \$250,000. Status: **RECOMMENDED**
13. Muldrow, L., **Gosha K.**, Cain, G. (2018) Verizon Minority Male Program. Amount: \$300,000
14. **Gosha, K.** (2017) Cyber Spectrum Collaborative Research Environment (C-SCORE). Clarkson Aerospace. Amount: \$157,410
15. **Gosha, K.** (2017) Juvenile Detention Alternatives Initiative Data Management and Reporting. Annie E. Casey Foundation. Amount: \$47,552.
16. Joyner, T., **Gosha, K.** (2017) Culturally Relevant Computing. Governor's Office of Student Achievement Innovation Fund Tiny Grant Program. Amount: \$6,998.
17. **Gosha, K.** (2017) Georgia CS Education Resource Center. Google CS4HS Special Topic Award. Amount: \$10,000.
18. Shaw, J., **Gosha, K.**, (2015) Boeing Cyber Grant, Technology Leadership Center. Amount: \$45,000.
19. **Gosha, K.** (2016) Juvenile Detention Alternatives Initiative Data Management and Reporting. Annie E. Casey Foundation. Amount \$60,000.
20. Ericson, B., **Gosha, K.** (2016) RISE Up 4 CS. Google Rise Award. Total Grant Amount: \$25,000.
21. **Gosha, K.**, Cooper, D. (2016) Sphero Coding Racing League Program. Boeing Cyber Grant. Total Grant Amount: \$53,100
22. (Non-Co PI, Subawardee) Gilbert , J. (2016) NSF BPC-A: Institute for African-American Mentoring in Computing Sciences (iAAMCS). Total Grant Amount: \$5,089,295, Subaward Amount (\$60,000).
23. Volcey, J., **Gosha, K.** (2015) Establishment of a Faculty Learning Community Around the Use of Makerspaces, Associated Colleges of the South Faculty Advancement Grant. Amount \$11,000, 1/2016-11/2016.
24. **Gosha, K.** (2015) Academic Year Undergraduate Research. Subaward for the NSF BPC-A: Institute for African-American Mentoring in Computing Sciences (iAAMCS). Amount \$8,500, 8/2015-3/2016.
25. **Gosha, K.** (2015) Juvenile Detention Alternatives Initiative Data Management and Reporting. Annie E. Casey Foundation. Amount \$50,800.

26. Shaw, J., **Gosha, K.**, (2015) Boeing Cyber Grant, Technology Leadership Center. Amount: \$42,750.
27. **Gosha, K.**, (2015) Collaborative Research Experience for Undergraduates Award. CRA-W and CDC, \$10,500.
28. **Gosha, K.**, (2015) Academic Year Undergraduate Research. Subaward for the NSF BPC-A: Institute for African-American Mentoring in Computing Sciences (iAAMCS). Amount \$8,500, 8/2014-8/2015.
29. **Gosha, K.** (2015) Boeing AUC Technology Leadership Center. Amount \$220,000.
30. **Gosha, K.** (2014) Morehouse STARS Leadership Corps. Amount \$7,000.
31. **Gosha, K.**, (2014) Juvenile Detention Alternatives Initiative Data Management and Reporting. Annie E. Casey Foundation. Amount \$66,804.
32. **Gosha, K.**, (2014) Academic Year Undergraduate Research. Subaward for the NSF BPC-A: Institute for African-American Mentoring in Computing Sciences (iAAMCS). Amount \$9,500, 8/2013-8/2014.
33. **Gosha, K.**, (2013) Juvenile Detention Alternatives Initiative Data Management and Reporting. Annie E. Casey Foundation. Amount \$45,000.
34. **Gosha, K.**, (2013) Associated Colleges of the South Faculty Advancement Proposal, Pilot Testing for Virtual Writing Assistants for Enhancing Writing Competency. Amount: \$9,880.
35. **Gosha, K.**, (2013) Associated Colleges of the South Faculty Advancement Proposal, The Creation of an Evening Video and Text Chat Tutorial Service. Amount: \$10,000.
36. **Gosha, K.**, (2013) Collaborative Research Experience for Undergraduates Award. CRA-W and CDC, \$29,500.
37. **Gosha, K.** (2013) Morehouse STARS Leadership Corps. Amount \$28,200.
38. Cooper, D., **Gosha, K.**, (2013) Boeing Cyber Grant, Tutorial Program for the Division of Science and Mathematics. Amount: \$50,000.
39. **Gosha, K.**, (2012) Associated Colleges of the South Faculty Advancement Proposal, Increasing Writing Competency Using Virtual Writing Assistants. Amount: \$8,000.
40. **Gosha, K.**, (2012) CRA-W/CDC Distinguished Lecture Series (DLS), Amount: \$1,967.
41. **Gosha, K.**, (2012) Collaborative Research Experience for Undergraduates Award. CRA-W, CDC, and A4RC, \$30,300.
42. **Gosha, K.** (2012) Morehouse STARS Leadership Corps. Amount \$14,100.

## Book Chapters

1. 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.

## Journal Publications (Morehouse College & Spelman College student coauthors in grey)

2. Huff, E. & **Gosha, K.** (2018). Awareness and Readiness for Graduate School of African American Male Computer Science Students. *Computing in Science & Engineering*, *Accepted for publication*.

3. **Gosha, K.**, Hall, P., Lowens, B., **Forney, M.** (2016) Evaluating the Short Term Effectiveness of Using Culturally Based Animations in Teaching Geometry. Challenge Journal. Atlanta, Georgia. **UNDER REVIEW**
4. **Gosha, K.**, & **Harris, N.** (2017). Pairing High School Teachers with Historically Black College & University (HBCU) Computer Science Students to Teach Advanced Placement Computer Science Principles. IOSR Journal of Computer Engineering (IOSR-JCE), 19(3), 5–9. <https://doi.org/10.9790/0661-1903060509>
5. **Gosha, K.** (2017). Supplemental Instruction Animations to Teach Introductory College Mathematics for Student-Athletes. International Journal of Advanced Research in Computer and Communication Engineering, 6(6). <https://doi.org/10.17148/IJARCCCE.2017.6601>
6. Payton, J., Barnes, T., Buch, K., Rorrer, A., Zuo, H., **Gosha, K.**, ... & Dennis, L. (2016). STARS Computing Corps: Enhancing Engagement of Underrepresented Students and Building Community in Computing. *Computing in Science & Engineering*, 18(3), 44-57.
7. **Gosha, K.**, Gilbert, J., **Middlebrook, K.** (2016) A Qualitative Analysis of Using a Virtual Mentoring Program on Black Computer Science Students. International Journal of Education and Human Developments (ISSN: 2334-2978), 5(1).
8. Gosha, K., Gilbert, J.E., and **Middlebrook, K.** "Virtual Graduate School Mentoring Using Embodied Conversational Agents." *Journal of Computer Science* 3.2 (2015): 15-38.
9. **Gosha, K.**, **Middlebrook, K.** (2015) The Effectiveness of Embodied Conversational Agents in Providing Spiritual Guidance to College Students. International Journal of Emerging Trends in Electrical and Electronics (IJETEE–ISSN: 2320-9569), 11(5).
10. **Gosha, K.**, **Porter, J.**, **Cherry, D.**, Ordu, C. (2014) Spiritual Counseling for Male College Students Using Embodied Conversational Agents. Journal of Progressive Policy and Practice. Spring 2014, Volume 2. Issue 1.
11. Hunter, C., **Gosha, K.** (2013) It's in Black and White: Preservice Teachers' Perceived Abilities to Facilitate Literary Conversations about African-American Picture Books. The Annuals of the Next Generation.
12. **Gosha, K.**, Ekandem, J., (2012) Alabama in Motion: The Development of a Web-based Program Management Application for Alabama Residents to Fight Against Obesity, Annuals of the Next Generation
13. **Gosha, K.** (2005). Creation of a Mobile Database for the Soil Moisture Experiment 2003, The Source, p.115-127, ISSN 1549-8247.

### Full Manuscripts Published in Conference Proceedings

(Morehouse College & Spelman College student coauthors in grey, not including abstract submissions)

14. Hall, P, & **Gosha, K.** (2018) The Effects of Anxiety and Preparation on Performance in Technical Interviews for HBCU Computer Science Majors. In Proceedings of the ACM SIGMIS Computers and People Research. *Accepted for publication.*
15. **Langham, J.** & **Gosha, K.** (2018) The Classification of Aggressive Dialogue in Social Media Platforms. In Proceedings of the ACM SIGMIS Computers and People Research. *Accepted for publication.*
16. **Gosha, K.**, Huff, E. & **Scott, J.** (2018) Computing Careers Exploration For Urban African American Students using Embodied Conversational Agents. In Proceedings of the ACM SIGMIS Computers and People Research. *Accepted for publication.*
17. **Julian, L.** & **Gosha, K.** (2018) Using SMS as an Interface for a Virtual Mentoring System (*Accepted as Extended Abstract*). In *Proceedings of the ACM SouthEast Conference (ACM SE '17)*. ISBN: 978-1-4503-5696-1

18. **Hampton, L. & Gosha, K.** (2018) Development of a Twitter Graduate School Virtual Mentor for HBCU Computer Science Students (*Accepted as Extended Abstract*). In *Proceedings of the ACM SouthEast Conference* (ACM SE '17). ISBN: 978-1-4503-5696-1
19. **Gosha, K., Holmes, E., Ridley, T., Scott, J., Womack, K.** (2017) Introduction to Computer Science for Urban African American Students Using Sphero Robotics Workshop. In *Proceedings of the ACM SouthEast Conference* (ACM SE '17). ACM, New York, NY, USA, 252-254. DOI: <https://doi.org/10.1145/3077286.3077323>
20. **Gosha, K., Abudu, P., Forney, M.** (2017) Evaluation of the Expert Advisement in a Virtual Graduate School Panel for Computer Science Students. In *Proceedings of the SouthEast Conference* (ACM SE '17). ACM, New York, NY, USA, 69-74. DOI: <https://doi.org/10.1145/3077286.3077311>
21. **Gosha, K., Middlebrook, K.** (2016) Exploring Computing Careers through a Virtual Career Exploration Fair using Embodied Conversational Agents. In *Proceedings of ACM Conference for Special Interest Group of Computer Science Education*, Page 708, ISBN: 978-1-4503-4698-6.
22. Mejjias, M., Burge, L., Galloway, K., **Gosha, K.**, Muhammad, J. (2016) Holistic Development of Underrepresented Students through Academic – Industry Partnerships. In *Proceedings of ACM Conference for Special Interest Group of Computer Science Education*, Seattle, WA, Pages 681-682, ISBN: 978-1-4503-4698-6
23. **Gosha, K., Brownlow, B., Gentry, K., Oladele, A.** (2015) The Creation of BullyShutdown.com as a Tool for Bullying Prevention. In *Proceedings of World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education*. Kona, Hawaii, October 19-22, 2015.
24. **Gosha, K.**, White, B., Livingston, S., Jensen, K., Claiborne, C. (2015) Development of the Microsoft Surface Hub for Teaching Socio-Ethical Leadership. In *Proceedings of World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education*. Kona, Hawaii, October 19-22, 2015.
25. **Gosha, K., Okpokowuruk, I.** (2015) Using Embodied Conversational Agents to Teach Bullying Intervention in Schools. In *Proceedings of World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education*. Las Vegas, Nevada, March 2-6, 2015.
26. **Gosha, K., Bassy, R., McCauley, L.**, Bascelli, D., **Porter III, J.** (2014) Measuring the Effectiveness of Embodied Conversational Agents for College Writing Labs. In *Proceedings of World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education*. New Orleans, Louisiana, October 27-30, 2014.
27. **Gosha, K., Jairam, A.** (2014) Using a Brain Computer Interface Activity to Determine How Music Affects the Brain. In *Proceedings of World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education*. New Orleans, Louisiana, October 27-30, 2014.
28. **Gosha, K., Oladele, A., Bassy, R., Porter III, J.** (2014) Using Interactive Storytellers to Broaden Participation in Graduate Computing. In *Proceedings of World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education*. New Orleans, Louisiana, October 27-30, 2014.
29. **Gosha, K., Bassy, R., Falcone, C.**, Bascelli, D., **Porter III, J.** (2013) Utilizing Embodied Conversational Agents for College Writing Labs. In *Proceedings of World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education*. Las Vegas, Nevada, October 21-24, 2013.
30. **Gosha, K.**, Ordu, C., Horace, J., **Turner, M., Cherry, D., Johnson, J., Brickler, D.** (2013) Using Interactive Storytelling Agents to Broaden Participation in Computing. In *Proceedings of World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education*. Las Vegas, Nevada, October 21-24, 2013.
31. **Gosha, K.**, Ordu, C., Horace, J., **Posey, J., Angel, J.** (2013) Measuring the Effectiveness of Additional Functionalities to the Virtual Mentorship System. In *Proceedings of World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education*. Las Vegas, Nevada, October 21-24, 2013.

32. **Gosha, K., Benjamin, T.**, Horace, J., Ordu, C. (2013). Recruiting Students of Color Through Developing Online Graduate Student Panels. Proceedings of Society for Information Technology & Teacher Education International Conference 2013. New Orleans, LA: AACE.
33. **Gosha, K.**, James, M., **Janifer, A.** (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. Honolulu, Hawaii, October 18-21, 2011.
34. Smotherman, J. M., **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 (pp. 2719-2724). Chesapeake, VA: AACE.
35. **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, CD-ROM.
36. **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, CD-ROM.
37. **Gosha, K.**, Billionniere, E., & Gilbert, J.E. (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. 2977-2979). Chesapeake, VA: AACE.
38. **Gosha, K.**, Billionniere, E., Ramsey, M., & Gilbert, J.E. (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. 1449-1454). Chesapeake, VA: AACE
39. Jackson, J. F. L., Gilbert, J. E., Charleston, L. J., George, P. L., Grenell, K. D., & **Gosha, K.** Differential gender effects of a STEM-based intervention: An examination of the African American Researchers in Computing Science program. American Education Research Association (AERA), Denver, CO, April 30 – May 4 (66.040-9).
40. Jackson, J. F. L., Gilbert, J. E., Charleston, L. J., George, P. L., Grenell, K. D., & **Gosha, K.** Multiple Identities for Blacks in Math, Science and Technology. American Education Research Association (AERA), Denver, CO, April 30 – May 4 (66.040-9).
41. Billionniere, E., Greiman, D., & **Gosha, K.** (2009) A Comparison of Social Service Selection Techniques. IEEE International Conference on Dependable, Autonomic and Secure Computing (DASC-09), Chengdu, China, December 12-14, 2009, pp. 260 – 265.
42. **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, pp. 3500-3503. Vancouver, Canada, October 26-30, 2009.
43. **Gosha, K.**, Thomas, J. & Gilbert, J.E. (2008) Exploring the Impact of Queue Management on Quality of Service for SMBs, IEEE International Conference on Services Computing, Honolulu, Hawaii, July 8-11, 2008, Volume 2: p. 551 – 553.
44. **Gosha, K.** & Thomas, J. (2008) Evaluating Service-Based Software Applications, ACM Southeast Conference, Auburn, AL, March 28-29, 2008, CD-ROM.
45. Cross II, E.V., Eugene, W., Hamilton, C. & **Gosha, K.** (2008). Street Legal Customs: A Tool for Teaching Financial Responsibility. In K. McFerrin et al. (Eds.), Proceedings of Society for Information Technology & Teacher Education International Conference 2008 (pp. 4631-4636). Chesapeake, VA: AACE.

46. Cross II, E.V., **Gosha, K.**, Eugene, W., Arcediano, F., Hamilton, C., Hundley, J. (2008) Game Design from the Lens of a Student, ACM Southeast Conference, Auburn, AL, March 28-29, 2008, CD-ROM.

### Research Presentations (Non-Conference Paper/Abstract Only)

1. **Gosha, K.** (2016) "The Creation of Bully Shutdown.com as a Tool for Bullying Prevention" 6th Annual Anti-Bullying Summit, June 23-24, 2016, Peachtree City, GA.
2. **Gosha, K.** (2013) National Laboratories Professional Development Workshop for Underrepresented Participants at the Oak Ridge National Laboratory, June 13-14, 2013, Oak Ridge, TN.
3. **Gosha, K.** (2013) Measuring the Effectiveness of Virtual Graduate School Mentoring for African American Computer Science Majors, The 25<sup>th</sup> Annual National Black Graduate Student Conference (NBGSC), March 7-10<sup>th</sup>, 2013, Deerfield, MI.
4. **Gosha, K.**, Gilbert, J.E. (2010) Increased Procurement Quality and Requirement Analysis for Usable Website Design, The 22nd Annual National Black Graduate Student Conference (NBGSC), March 10-14<sup>th</sup>, 2010, p. 33.
5. **Gosha, K.** (2010) Online Social Networks in Education. Computer Human Interaction Mentoring (CHIME) Workshop, April 9 – 10<sup>th</sup>, 2010. (Poster, *Co-located with CHI 2010*)

### Culturally Relevant Computing Lab Graduates in Doctoral Computing Programs

1. **Andrew Garrett**, (Class of Fall 2018) Computer Science Doctoral Program at Auburn University
2. **Darian Nwankwo**, (Class of 2018) Computer Science Doctoral Program at Cornell University
3. **Anthony Roebuck**, (Class of 2018) Computer Science Doctoral Program at the Colorado School of Mines
4. **Daniel Johnson, III** (Class of 2016) Computer Science Doctoral Program at the University of California in Los Angeles
5. **Simone Smarr** (Class of 2016) Computer Science Doctoral Program at the University of Florida
6. **Joshua Posey** (Class of 2016) Computer Science Doctoral Program at Auburn University
7. **Robertson Bassy** (Class of 2015) Computer Science Doctoral Program at Auburn University
8. **Zaire Ali** (Class of 2015) Computer Science Doctoral Program at University of North Carolina-Charlotte
9. **Jassiem Ifill** (Class of 2015) Computer Science Doctoral Program at Rensselaer Polytechnic Institute
10. **John Angel** (Class of 2015) Computer Science Doctoral Program at Rensselaer Polytechnic Institute
11. **John Porter, III** (Class of 2014) Human Centered Computing Doctoral Program at Clemson University
12. **Cazembe Kennedy** (Class of 2014) Human Centered Computing Doctoral Program at Clemson University
13. **David Cherry** (Class of 2014) Human Centered Computing Doctoral Program at Clemson University
14. **Hakeem Jones** (Class of 2014) Human Centered Computing Doctoral Program at Clemson University
15. **Bernard Dickens, III** (Class of 2014) Computer Science Doctoral Program at University of Chicago
16. **David Brickler** (Class of 2013) Human Centered Computing Doctoral Program at Clemson University

17. **Myles Nicholson** (Class of 2013) Computer Science Doctoral Program at Ohio State University
18. **Joseph Crawford** (Class of 2013) Computer Science Doctoral Program at University of Notre Dame

### **Culturally Relevant Computing Lab Students in National Summer Research Programs**

1. Jordan Scott – 2018 – Temple University
2. Jordan Scott – 2017 – University of Tennessee
3. Kamal Middlebrook – 2016 – San Jose State University
4. Rashad Savage – 2016 – University of North Carolina Charlotte
5. Jovon Corbitt – 2016 – Clemson University
6. Igwe Onumah – 2015 – University of Michigan
7. Akin Oladele – 2013 – University of Michigan
8. Robertson Bassy – 2015 – Auburn University
9. Andrew Garrett – 2015 – University of Florida
10. Daniel Johnson – 2015 - Harvard University
11. Ifreke Okpokowuruk – 2015 – University of California, Berkeley
12. Joshua Posey – 2014 – Oregon State University
13. Darnell Coleman – 2013 – Clemson University
14. Keythe Gentry – 2014 - Rensselaer Polytechnic Institute (RPI)
15. Channing Vanderbilt – 2013 - Rensselaer Polytechnic Institute (RPI)
16. Jassiem Ifill – 2013 – University of Minnesota
17. David Cherry – 2013 – University of Minnesota
18. Jonathan Johnson – 2013 – Auburn University
19. Akin Oladele – 2013 – Stanford University
20. Marvin Turner – 2013 – Georgia Tech
21. Austin Tucker – 2013 – Georgia Tech
22. Justin Grier – 2012 – Clemson University
23. Kenneth McKanders – 2012 – Clemson University
24. Jamal Thorne – 2012 – Clemson University
25. Austin Tucker – 2012 – Clemson University



## Invited Talks and Presentations

1. Gosha, K. "Making a Difference with Tiny Grants" Panelist. Georgia Governor's Office of Student Achievement (GOSA) Innovation Summit. Atlanta, Georgia June 2018
2. Gosha, K., *Data Visualization with Juvenile Youth Detention Alternatives Data*. Atlanta BDPA Meeting. April 18<sup>th</sup>, 2018.
3. Black, J, **Gosha, K.**, Humphries, T., Muhammad, J. *Invited Included Session: A Dream Realized or a Dream Deferred? The Impact and Future of HBCU CS Undergraduate Education*. February 23, 2018.
4. Gosha, K. *Virtual Mentoring Using Embodied Conversational Agents*, STARS Celebration. Atlanta, Georgia. September 23, 2017
5. Gosha, K. *Center for Undergraduate Research Annual Colloquium*, Albany State University, April 22, 2016
6. Gosha, K. Planning a Center in Socially Relevant Computing, AAAS NSF HBCU-UP CREST PI Meeting, Arlington, VA, February 2016.
7. Gosha, K. *Virtual Mentoring Using Embodied Conversational Agents*, Franklin Visiting Scholar Seminar, University of Georgia, Athens, Georgia, February 12, 2016.
8. Gosha, K. *What is Human-Centered Computing?* Hampton University, Hampton, Virginia, March 16, 2013.
9. Gosha, K., *How to Run the Yard as a Graduate Student*, Morehouse College (Hopps Scholars Program Weekly Meeting), Atlanta, Georgia, September 24, 2011.
10. Gosha, K., *Virtual Mentoring Using Embodied Conversational Agents*, Morehouse College (Department of Computer Science), Atlanta, Georgia, May 18, 2011.

## Kinnis Gosha / Culturally Relevant Computing Lab in the Press

**WTVM9** - <http://www.wtvm.com/story/35535818/morehouse-college-aps-partner-for-summer-computing-camp>

**Hawaii News Now** - <http://www.hawaiinewsnow.com/story/35535818/morehouse-college-aps-partner-for-summer-computing-camp#.WTbAWX0iguc.email>

**AZFamily** - <http://www.azfamily.com/story/35535818/morehouse-college-aps-partner-for-summer-computing-camp>

**CBS46** - <http://www.cbs46.com/story/35535818/morehouse-college-aps-partner-for-summer-computing-camp>

**Georgia Public Radio** - <http://gpbnews.org/post/morehouse-lab-uses-data-promote-prison-alternatives>

**CBS46** - <http://www.cbs46.com/story/34265106/newell-brands-donates-1m-to-morehouse-college>

**Communications of the ACM** - <http://cacm.acm.org/magazines/2017/1/211099-bias-in-technology/fulltext>

**WTVM9** - <http://www.wtvm.com/story/34167049/grant-helps-morehouse-students-save-minority-men-from-incarceration>

**CBS46** - <http://www.cbs46.com/story/34167049/grant-helps-morehouse-students-save-minority-men-from-incarceration>

**WBRC6** - <http://www.wbrc.com/story/34167049/grant-helps-morehouse-students-save-minority-men-from-incarceration>

**WTVM9** - [http://m.wtvm.com/wtvm/pm\\_/contentdetail.htm?contentguid=od:5hHiwzp5](http://m.wtvm.com/wtvm/pm_/contentdetail.htm?contentguid=od:5hHiwzp5)

**CBS46** - <http://www.cbs46.com/story/34101275/morehouse-college-exposes-atlanta-students-to-computing-careers>

**Diverse Issues in Higher Education** - <http://diverseeducation.com/article/84807/>

**Communications of the ACM** - <http://cacm.acm.org/careers/192641-morehouse-produced-13-percent-of-african-american-phd-male-computer-science-students/fulltext>

**Morehouse News Center** - <http://www.morehouse.edu/newscenter/morehouse-produces-13-percent-of-african-american-ph-d-students-in-computer-science/>

**Computing Research Association** - <http://cra.org/crn/2015/11/cra-wcdc-reu-programs-encourage-minorities-to-pursue-ph-d-s-in-computing/>

**WSBT (Atlanta)** - <http://www.wsbtv.com/ap/ap/georgia/morehouse-receiving-federal-grant-for-stem-educati/nn9fQ/>

**WRDW-TV (Augusta)** - <http://www.wrdw.com/news/headlines/Morehouse-receiving-federal-grant-for-STEM-education-337401851.html>

**HBCU Buzz** - <http://hbcubuzz.com/morehouse-college-computer-science-pipeline-continues-to-grow/>

**HBCU Digest** - <http://hbcudigest.com/post/126757893466/hbcu-digest-podcast-series-morehouse-professor>

**The Atlantic** - <http://www.theatlantic.com/business/archive/2015/01/why-are-so-few-black-people-using-bitcoin/384268/>

**HBCU Digest** - <http://hbcudigest.com/morehouse-college-reduce-black-incarceration/>

**Atlanta Magazine** - <http://www.atlantamagazine.com/2014/culturally-relevant-computing-lab/>

**Rockdale Citizen** - <http://www.rockdalecitizen.com/news/2014/feb/15/west-newton-students-took-a-field-trip-to/>

**Live Science** - <http://www.livescience.com/38274-kinnis-gosha-be-confident-about-what-you-know-video.html>

**Clemson Newsroom** - <http://www.clemson.edu/ces/computing/news-stories/2013awards.html>

**Morehouse News Center** - <http://www.morehouse.edu/newscenter/morehouse-computing-research-center-lab-uses-latest-technology-to-save-youth-of-color-from-incarceration/>

**Associated Colleges of the South** - <http://colleges.org/morehouse-produces-13-percent-of-african-american-ph-d-students-in-computer-science/>

## Doctoral Student Advisees

- Phillip Hall, M.S. – Human Centered Computing (Clemson University)
- Earl W. Huff Jr, M.S. – Computer Science (Clemson University)

## Graduate Research Assistant Positions

2009 - 2013

### Human-Centered Computing Lab - Clemson University

Team Leader for NSF BPC-DP: Incorporating Cultural Tools for Math and Computing Concepts into the Boys and Girls Clubs of America Project

- Designed and constructed database driven, web-based student assessment tool for culturally based multimedia instruction software
- Lead a multi-university team (one graduate and five undergraduate researchers) in the

creation, testing and verification of culturally based multimedia instruction modules

## Teaching Experience

- 2013 - present **Assistant Professor – Morehouse College (Atlanta, Georgia)**
- Director of the Culturally Relevant Computing Lab
  - Courses Taught: Web Development, Programming II, Database Systems, Operating Systems, Programming Languages and Data Structures and Algorithm Analysis
- 2011 - 2013 **Instructor – Morehouse College (Atlanta, Georgia)**
- Implemented a new course teaching website application development
  - Created the Culturally Relevant Computing Lab: [www.crclab.org](http://www.crclab.org)
  - Over \$100,000 in funding in 14 month period
- 2008 **Adjunct Professor - Columbus State University (Columbus, Georgia)**
- Instructor for 2 sections of the newly implemented "Introduction to Information Technologies"
- 2005 – 2006 **Graduate Teaching Assistant for Personal Computer Applications (COMP1000) – Auburn University (Auburn, Alabama)**
- Instructed courses on non-CS majors on Microsoft Office 2003 versions of Word, Excel, Access, PowerPoint and FrontPage

## Professional Experience

- 2017 **Google Faculty in Residence Program (Mountain View, CA)**
- Learned about Google Outreach Programs, Products and Services
  - Created Curriculum for Google's use, targeted for HBCU students
- 2008 **Summer Intern for the Business Informatics Group – IBM Research (Yorktown, NY)**
- Conducted a preliminary investigation on a visualization protocol for artifact-centric business process modeling
  - Created the outline for a mobile interface for a radically simple artifact-centric business process modeling development tool
- 2007 **Web Application Developer for Auburn University Office of Technology**
- Develop web applications for different departments throughout the university using Visual Studio 2005 (C#) and SQL Server
  - Developed the division's software engineering process (CMM - Level 2)
- 2005 **Systems Engineering Intern, Network Operations Management Group - Synovus Financial Corporation (Columbus, Georgia)**
- Responsible for the patch management for over 1000 desktops
  - Created guidelines, standards and protocols for patch & update deployment
  - Researched and ranked critical updates for the company
  - Constructed testing strategies for company critical applications
- 2004 **IT Executive Intern, Business IT Partnering/ Consulting Group - Synovus Financial Corporation, Columbus, Georgia**
- Created vendor selection scorecard for all procurement projects over \$100K
  - Conducted extensive research in the Balanced Scoringcarding method of evaluating performance and developed a proposal for a company-wide solution
  - Educated key decision makers on fair, unbiased vendor selection with recommendations to the vendor selection process

- Facilitated requirement gathering exercises for the creation of an internal web portal

## Undergraduate Research Experience

- 2003            **Researcher, Center for Hydrology, Soil Climatology and Remote Sensing, Summer Research Program - Alabama Agricultural & Mechanical University**  
- Worked on NASA sponsored projects using knowledge of Artificial Neural Networks in order to predict soil moisture

## Fellowships, Honors and Awards

- 2014            Atlanta Magazine 2014 Groundbreakers Award
- 2013            Albany State University Top 50 Under 50
- 2013            Outstanding Ph.D. Student in Human Centered Computing Award (Clemson University)
- 2010 - 2011    R C Edwards Graduate Fellowship
- 2010 - 2011    George MacDonald Graduate Fellowship
- 2010 - 2011    Clemson Alumni Graduate Fellowship
- 2009            Conference Funding Award - Clemson University School of Computing
- 2009 - 2010    Southeast Alliance for Graduate Education and the Professoriate (SEAGEP) Fellowship
- 2006 – 2008    Southern Regional Educational Board (SREB) Doctoral Scholar Award
- 2008            IEEE Services Society Certified Services Computing Instructor Certificate
- 2005            Auburn University President's Graduate Opportunity Program (PGOP) Award

## Service

- 2018            Local Planning Chair for Black Enterprise's BE SMART HBCU Academy: Tech Prep
- 2018            Session Chair for 2018 the ACM Special Interest Group for Computer Science Education (SIGCSE) Conference (Baltimore, Maryland)
- 2017            Program Committee Member for the is the Third International Conference of the IEEE Special Technical Community on Broadening Participation (RESPECT 2018)
- 2017 - present    Ambassador for the Google CS4HS (Computer Science for High School) Program
- 2017 - present    Curriculum and Educational Policy Committee member ([Morehouse College](#))
- 2017 - present    State of Georgia Computer Science Education Advisory Council member
- 2017 - present    Student Affairs and Services SACS Committee member ([Morehouse College](#))
- 2017            NSF CISE Review Panel (Arlington, VA)

Kinnis Gosha, PhD

- 2017 Morehouse College Non-Traditional Academic Initiatives Committee member ([Morehouse College](#))
- 2017 Reviewer for Morehouse College Journal, *Challenge* ([Morehouse College](#))
- 2017 Co-Coordinator for Morehouse College Graduate School Spring Break Trip ([Morehouse College](#))
- 2016 to present DeKalb High School of Technology - South Computer Science Advisory Committee
- 2016 to present Institute for African-American Mentoring in Computing Sciences (NSF Broadening Participation in Computing Alliance) Leadership Team member
- 2016 to present Science Training Advisory Committee Member ([Morehouse College](#))
- 2016 NSF DHR Review Panel (Arlington, VA)
- 2016 to present Conference Planning Committee, National Society for Blacks in Computing, Atlanta, Georgia
- 2016 Poster Judge, STARS Celebration Computing Conference, Atlanta, Georgia
- 2016 Local Arrangements Co-Chair, STARS Celebration Computing Conference, Atlanta, Georgia
- 2015 – 2016 Webmaster for the Atlanta Center for Creative Inquiry
- 2016 - present Travel Scholarship Reviewer for the Tapia Celebration for Diversity
- 2016 - 2017 Broadening Participation Research Center Planning Committee member ([Morehouse College](#))
- 2016 UNCF Code Warriors Camp Coordinator
- 2016 to 2017 Morehouse College Institutional Review Board member ([Morehouse College](#))
- 2016 Speaker, Delta Academy Anti-Bullying and Self Esteem Building Workshop
- 2015 – present Moderator of the Morehouse CS Department Facebook group ([Morehouse College](#))
- 2015 Technical Advisory Committee (TAC) Member for the NSF Funded "Creating Pathways for Big Data Careers" Program
- 2015 - present STARS Computing Corps (NSF Broadening Participation in Computing Alliance) Leadership Team member
- 2015 Coordinator for the Morehouse College University of Georgia Graduate Feeder Program ([Morehouse College](#))
- 2015 to present Morehouse College Faculty Development Committee member ([Morehouse College](#))
- 2015 Webmaster for the Brothers of the Academy Web Portal
- 2015 Judge for the 2015 Morehouse College Makerspace Exploration Center Drone Competition ([Morehouse College](#))
- 2015 Advisory Board Member and Webmaster for the Morehouse College Makerspace Exploration Center ([Morehouse College](#))

- 2015 Provost's Committee for Science, Technology, Engineering, Arts and Math (STEAM) ([Morehouse College](#))
- 2015 Poster Presentation Judge for the Association of Computer and Information Science/Engineering Departments at Minority Institutions (ADMI) 2015 National Conference
- 2014 - 2015 Action Research Team for the Southern Regional Education Board member
- 2014 & 2015 Proctor & Gamble Summer Leadership Academy Faculty and Curriculum Developer
- 2014 Delta Psi Boule of Sigma Pi Phi Fraternity (Athens, GA) Junior Scholars Program Morehouse Visitation Coordinator
- 2014 Poster Presentation Judge for the 2014 Morehouse College Dreams to Teach Program ([Morehouse College](#))
- 2014 Research Mentor for the 2014 Morehouse College Dreams to Teach Program ([Morehouse College](#))
- 2013 & 2014 Summer Greater Orlando Upward Bound Math/Science Program Computer Science Instructor ([Morehouse College](#))
- 2013 & 2014 Panelist for the SAEOPP McNair/SSS Scholars Research Conference (Atlanta, GA)
- 2014 Oral Presentation Judge for the SAEOPP McNair/SSS Scholars Research Conference (Atlanta, GA)
- 2013 - 2014 Coordinator for the Division of Science and Mathematics Tutorial Program ([Morehouse College](#))
- 2013 – 2014 Paper Reviewer – ACM Computer Science Education Conference
- 2013 – 2014 Reviewer – Richard Tapia Celebration of Diversity in Computing Conference Poster Competition
- 2013 Coordinator for West Newton Elementary School 2<sup>nd</sup> Grade Gifted Program CRC Lab Visitation
- 2011 – 2012 Member – Empowering Leadership Alliance Student Advisory Board – Funded by the National Science Foundation
- 2011 Panelist for the Delta Sigma Theta Sorority, Inc. (SM -LAC) - Debutante Program & Educational Development Career Panel
- 2010 – 2011 ~~Editor, *Annals of the Next Generation of African American scholars that publishes the a*~~  
~~*Journal of the Next Generation of African American scholars that publishes the a*~~
- 2010 - 2011 Webmaster – Kappa Gamma Gamma Chapter of Omega Psi Phi Fraternity, Incorporated, Anderson, SC
- 2010 - 2011 Webmaster – Clemson Black Graduate Student Association
- 2010 Group 2-A Documenter – Computer & Information Science & Engineering NSF Broader Impacts for Research and Diversity Summit, Washington D.C.
- 2010 Program Committee – E-Learn: World Conference on E-Learning in Corporate, Government, Healthcare & Higher Education, *Orlando, FL*

Kinnis Gosha, PhD

- 2010 Chair – Student Planning Committee for the South East Alliance for Graduate Education and the Professoriate (SEAGEP) 2010 Annual Conference, *Atlanta, GA*
- 2010 Course Instructor – Clemson University Career Workshop II: Discover Clemson
- 2009 – 2010 Member – Empowering Leadership Alliance Student Advisory Board – Funded by NSF
- 2009 Webmaster – National Teacher Education Journal, *Meridian, MS*
- 2009 Webmaster – Journal of Technology Integration in the Classroom
- 2009 Webmaster – School of Computing Alliance, *Clemson, SC*
- 2009 Technical Reviewer - The 41st ACM Technical Symposium on Computer Science Education, *Milwaukee, WI USA*
- 2009 Technical Reviewer & Program Committee Member - E-Learn - World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education, *Vancouver, Canada*
- 2009 Technical Reviewer - 14th ACM–SIGCSE Annual Conference on Innovation and Technology in Computer Science – Paris, France
- 2008 Session Chair – Frontiers in Service Conference – *University of Maryland, USA*
- 2008 Technical Reviewer – Tapia 2009 Diversity in Computing Conference – *Portland, Oregon USA*
- 2006 Webmaster - Auburn World Usability Day Committee
- 2005 – 2006 Publications Chair for the National Society for Black Engineers (Region III)
- 2005 Spring 2005 Graduating Class President, Albany State University, *Albany, Georgia*
- 2004 - 2005 Telecommunications Chair for the National Society for Black Engineers (Region III)

### Technical Workshops

Below are technical workshops offered by my research lab for K-12 students with the goal of outreach and recruitment.

- April 2017 – Archer Middle School - Sphero Coding Workshop (21 students)
- February 2017 – South Atlanta High School - Sphero Coding Workshop (26 Students)
- February 2017 – Stevenson High School - Sphero Coding Workshop (48 Students)
- October 2016 - Maynard Jackson High School - Sphero Coding Workshop (50 Students)
- April 2016 – West Elm Elementary School (Covington, GA) - Sphero Coding Workshop (21 Students)

### Professional Organizations

- Association for Computing Machinery (ACM)
- IEEE Special Technical Community on Broadening Participation
- Black Data Processing Associates (BDPA)
- National Society for Blacks in Computing
- Institute for African Americans Mentoring in Computer Science (iAAMCS)

\* See Honors and Awards

Kinnis Gosha, PhD

- Brothers of the Academy
- Service Research and Innovation Institute (SRII)
- Institute of Electrical and Electronics Engineers (IEEE) Computer Society
- ACM Special Interest Group for Computer Science Education (SIGCSE)
- Human Factor Ergonomics Society (HFES) – Clemson Chapter & National Member
- National Society of Black Engineers (NSBE)
- National Black Graduate Students Association (NBGSA)
- Empowering Leadership Alliance (EL Alliance)