

Biographical Sketch-CV

Alicia Nicki Washington

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Education

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| Ph.D. | Computer Science, North Carolina State University
Concentration: Networking
Dissertation Title: Performance Analysis of Traffic-Groomed Optical Networks | May 2005 |
| M.S. | Computer Science, North Carolina State University
Concentration: Networking
Non-Thesis Title: Optical Network Survivability | August 2002 |
| B.S. | Computer Science, Johnson C. Smith University | May 2000 |

Employment History

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|-----------|---|
| 8/15-date | Associate Professor, Department of Computer Science and Quantitative Methods,
Winthrop University, Rock Hill, SC |
| 6/11-8/15 | Associate Professor, Department of Systems and Computer Science
Howard University, Washington, DC |
| 8/06-5/11 | Assistant Professor, Department of Systems and Computer Science
Howard University, Washington, DC |
| 8/05-8/06 | Senior Member, Technical Staff
The Aerospace Corporation, Chantilly, VA |
| 1996-2004 | Software Engineering Intern
IBM, RTP, NC |

Journal Publications

1. Washington, A.N. and Romanova, A. "The Importance of Identity in Preparing a Diverse Computing Workforce." *Journal of Business, Industry, and Economics*, pending publication, 2018.

2. Malveaux, A. and Washington, A. N. "A Survey of Emergency Preparedness." *International Journal of Advanced Computer Science and Applications*, Vol. 6, No. 7, July, 2015.
3. Washington, A.N. and Burge, L. "Closing the Gap: Using Cultural Relevance to Attract and Retain African-American and Hispanic Students in the Computer Science Pipeline." *Journal of Negro Education*, 2015.
4. Washington, A.N., Burge, L. "Partnership for Early Engagement in Computer Science (PEECS): Exposing and Retaining African-American Middle and High-School Students in the Computer Science (CS) Pipeline," *National Technical Association Journal*, 2011.
5. *Atkinson, M., Washington, A., Burge, L. "Network and Non-Network-Based Simulation Models for Creating Crowd Synthesis Motion," *International Journal of Research and Reviews in Computer Science (IJRRCS)*, Vol. 2, No. 2, April, 2011.
6. ¥iziduh, R., ¥Sueing, H., ¥Jackson, J., Washington, A., Rwebangira, R., and Burge, L. "The Design of a Simulation for the Modeling and Analysis of Public Transportation Systems as Opportunistic Networks," *International Journal of Computer Networks*, v. 2, no. 4, 2010.
7. *Martin, J., Burge, L., Gill, J., Alfred, M., and Washington, A. "Modeling the Spread of Mobile Malware," *International Journal of Computer-Aided Engineering and Technology*, 2010, vol. 2, no. 1, pp. 3-14.
8. Washington, A.N. and Perros, H.G. "Alternate Routing in Tandem Traffic-Groomed Optical Networks," *Journal of Networks*, 2007, v. 2, no. 5, pp. 69-77.
9. Washington, A.N. and Perros, H. "Call Blocking Probabilities in a Traffic-Groomed Optical Network," *Computer Networks*, 45 (3), 2004.

Conference Publications

1. Parcham, E.⁺, Mandami, N., Washington, A.N, and Arabnia, H. (2017) "Facial Expression Recognition based on Fuzzy Networks," *2017 International Conference on Computational Science and Computational Intelligence*, 2017, USA.
2. Washington, A. N., Grays, S., and Dasmohaptara, S. "The Computer Science Attitude and Identity Survey (CSAIS): A Novel Tool for Measuring the Impact of Ethnic Identity in Underrepresented Computer Science Students," *American Society of Engineering Education 123rd Annual Conference and Exposition*, 2016, USA.
3. Mejias, M. ⁺, Jean-Pierre, K. ⁺, Knox, Q. ⁺, Ricks, E., Burge, L., and Washington, A.N. "Meaningful Gamification of a Computer Science Department: Considerations and Challenges," *Proceedings of the 2015 International Conference on Frontiers in Education: Computer Science and Computer Engineering (FECS'15)*, 2015, USA.
4. Lomax, R. H.*, Alston, L.*, and Washington, A.N. "Bridging the Gap: A Virtual Pre-College Program for Incoming Computer Science Students," *Proceedings of the 2015 International Conference on Frontiers in Education: Computer Science and Computer Engineering (FECS'15)*, 2015, USA.

5. Knox, Q.⁺ and Washington, A. N. “Identifying and Addressing the Challenges of Industry-Academic Partnerships at Minority-Serving Institutions,” *Proceedings of the 2015 International Conference on Frontiers in Education: Computer Science and Computer Engineering (FECS'15)*, 2015, USA.
6. Washington, A. N., Burge, L., Mejias, M. ⁺, Jean-Pierre, K.⁺, and Knox, Q.⁺ “Improving Undergraduate Student Performance in Computer Science at Historically Black Colleges and Universities (HBCUs) through Industry Partnerships,” *Proceedings of the ACM Special Interest Group on Computer Science Education (SIGSCE)*, 2015, USA.
7. Washington, A. N. and Burge, L. “Increasing and Improving K-12 Computer Science Education through Partnerships,” *Proceedings of the Hawaii University International Conference on Education and Technology*, 2013, USA.
8. Washington, A. N. and Burge, L., Mejias, M.⁺, and Jean-Pierre, K.⁺ “The Partnership for Early Engagement in Computer Science (PEECS) Program: Teaching African-American Middle-School Students Computer Science,” *Proceedings of the 2012 International Conference on Frontiers in Education: Computer Science and Computer Engineering (FECS'12)*, 2012, USA.
9. Knox, Q.⁺ and Washington, A.N. “A Survey of Dedicated Short Range Communication in Crash Avoidance Technologies,” *Proceedings of the 2011 National Technical Association Conference*, 2011, USA.
10. Howard, M.*, Washington, A., Shurn, T., Warner, G., Burge, L. “The Tricked-Out Virtual Body Shop: Recruiting African-American High-School Students to STEM through Virtual Automotive Design,” *Proceedings of the 2011 International Conference on Frontiers in Education: Computer Science and Computer Engineering (FECS'11)*, 2011, USA.
11. *Sueing, H., Jackson, J.*, Washington, A.N., Rwebangira, R., and Burge, L. “The Modeling and Analysis of the Washington Metropolitan Area Bus Network,” *Proceedings of the International Conference on Modeling, Simulation, and Visualization Methods Conference*, 2010.
12. Washington, A., Anderson, K., Warner, G., and Burge, L. “Graduating Engineers in the U.S.: Bridging Engineering and Entrepreneurship for African-American High School Students” *Proceedings of the Frontiers in Education: Computer Science and Computer Engineering International Conference*, 2010.
13. Washington, A.N. and Iziduh, R.* “Modeling of Military Networks Using Group Mobility Models,” 2009 Sixth *Proceedings of the International Conference on Information Technology: New Generations*, 2009, pp. 1670-1671.
14. Iziduh, R.*, Adike, L.*, and Washington, A.N. “Modeling Disruption Tolerant Networks with Random Location Barriers,” *Proceedings of the International Conference on Information Technology: New Generations*, 2008, pp. 1077-1080.
15. Oladiye, T.⁺ and Washington, A.N. “Epidemic Routing of Military Networks Using Group and Entity Mobility Models,” *Proceedings of the International Conference on Information Technology: New Generations*, 2008, pp.1303-1304.
16. Martin, J.⁺, Burge, L., Washington, A.N., and Alfred, M. “Modeling the Spread of Mobile Malware,” *Proceedings of the International Conference on Modeling, Simulation & Visualization Methods*, 2008, pp.3-9.
17. Garuba, M., Liu, C., and Washington, N. “A Comparative Analysis of Anti-Malware Software, Patch Management, and Host-Based Firewalls in Preventing Malware Infections on

- Client Computers,” *Proceedings of the International Conference on Information Technology: New Generations*, 2008, pp.628-632.
18. Guo, H., Li, J., Washington, N. et al, "Performance Analysis on Homing Pigeon-Based Delay Tolerant Networks", *Proceedings of IEEE Military Communications Conference*, 2007, pp.1-7.
 19. Ndimubanzi, I.⁺, Washington, A.N., and Burge, L. “ERDR: Achieving Event Reliability in Wireless Sensor Networks Using Distributed Data Redundancy,” *Proceedings of the International Conference on Wireless Networks*, 2007, pp. 439-443.
 20. Washington, A.N. and Perros, H. “Analysis of a Traffic-Groomed Optical Network with Alternate Routing,” *Proceedings of the International Conference on Information Technology: New Generations*, 2007, pp.854-862.
 21. Washington, A.N. and Perros, H.G. “Performance Analysis of Traffic-Groomed Optical Networks Employing Alternate Routing Techniques,” *Lecture Notes in Computer Science: Managing Traffic Performance in Converged Networks*, v. 4516, 2007, pp.1048-1059
 22. Bell, T.* , Washington, A.N. “Getting Things Done the Software Way with Ruby on Rails,” 2007 Proceedings of the National Black Data Processors Convention, August, 2007.
 23. Washington, Nicki. “Bridging the Gap: The Importance of Outreach Activities by Young Scientists and Engineers in the African-American Community.” *African-Americans in Space Mini-Conference Proceedings*, 2006.
 24. Washington, A. N., et. al. “Approximation Techniques for the Analysis of Large Traffic-Groomed Tandem Optical Networks,” *Annual Simulation Symposium Proceedings*, 2005.

Book Publications

1. Washington, et al. *South Carolina Computer Science Standards-Grades K-8*, pending publication April 2017. Retrieved from <http://ed.sc.gov/instruction/standards-learning/computer-science/computer-science-standards-public-review-draft-2016/>, April, 2017.
2. Washington, et al. *K12 Computer Science Framework*. Retrieved from <https://k12cs.org/wp-content/uploads/2016/09/K%E2%80%93Computer-Science-Framework.pdf>, 2016.
3. *Prepped for Success: What Every Parent Should Know About the College Application Process, Second Edition* 2014.
4. *Stay Prepped: 10 Steps to Succeeding in College (And Having a Ball Doing It)*, 2013.
5. *Preparado Para El Éxito: Lo Que Todo Padre Debe Saber Sobre el Proceso de Admisión Universitaria*, 2011.
6. *Prepped for Success: What Every Parent Should Know About the College Application Process*, 2010.

Research Experience

- Computer Science and Quantitative Methods Department, Winthrop University (August 2015-date)
- Systems and Computer Science Department, Howard University (August 2006-2015)
- Computer Science Attitude and Identity Survey (CSAIS)- The Computer Science Cultural Attitude and Identity Survey (CSAIS) was developed to measure five important constructs that influence the attitudes and identity of undergraduate students of color in computer science: confidence, interest, gender, professional, and identity. The tool currently targets freshmen and sophomores either entering the university as first-time college students or enrolling in their first CS course. The research results (including validation) indicate that the tool, specifically the identity construct, is a valid and reliable measure of ethnic identity in relation to CS. It is currently being used to measure ethnic identity.
- Principal Investigator, Targeted Infusion: Transforming Undergraduate Computer Science Education at Howard University (2013-2016) – Partnered with Google, Inc. to create a multi-layered approach to increasing the number of undergraduate CS students at Howard University and improve their academic performance in the first two years of study. This project included the first Googler-In-Residence program, where a Googler is a full-time faculty member in the department, virtual pre-college program and curriculum for incoming freshmen (inspired by the Google CSSI curriculum), faculty professional development, and undergraduate CS researchers focused on CS education. This effort is funded by a \$375,000 Historically Black Colleges and Universities-Undergraduate Program (HBCU-UP) grant from the National Science Foundation.
- Principal Investigator, *Partnership for Early Engagement in CS (PEECS) High School Program* (2012-2015) - Howard University Department of Systems and Computer Science partnered with Exploring CS, Google, and Washington, DC Public Schools (DCPS) to introduce the Exploring CS course in 15 DCPS high schools. Identified teachers at each high school will receive quarterly professional development on course implementation. In addition, the PIs and research team of CS Education Ph.D. students and undergraduate pre-service teachers will participate in classroom observations and instructional coaching throughout the academic year. The course will be implemented at the 9th and 10th-grade level across all DCPS high schools, with every DCPS student being required to take the course prior to graduating from high school. This effort is funded by a \$1M Computing Education for the 21st Century grant from the National Science Foundation
- Principal Investigator, *Graduating Engineers in the US-Department of Homeland Security (GENIUS-DHS) Program* (2011-2015) - To increase the number of undergraduates completing computer science graduates and entering DHS-related careers, the GENIUS-DHS program introduced the following components: undergraduate research/mentoring program in emergency preparedness, DHS-related workshops, and the introduction of course modules focused on emergency preparedness in the context of computer science. This effort is funded by a \$500,000 grant from the Department of Homeland Security.
- Principal Investigator, *Partnership for Early Engagement in CS (PEECS) Middle School Program* (2011-2012) - Developed and implemented a middle-school CS curriculum using

culturally-relevant pedagogy to teach CS fundamentals to 120 6th-8th grade students at the Howard University Middle School of Mathematics and Science. The effort was funded by a \$60,000 grant from Google, as part of the Inspired by CAPE program.

- Principal Investigator, *Showing Her Research Opportunities and Experiences (SHEROES)* (2010-2011) - An all-female undergraduate research team of four students participated in a year-long research project on wireless networking. In addition, students were mentored on the research process, pursuing graduate school, and opportunities within. The group produced two research papers, two presentations, and resulted in one student pursuing Ph.D. studies, beginning with the fall 2013-2014 academic year. This effort was funded by a \$40,000 grant from the Computing Research Association.
- Co-Principal Investigator, *Graduating Engineers In the US (GENIUS) Scholarship Program* (2008-2013) - Financial assistance was provided to incoming freshman with unmet financial need in the five departments in Howard University's School of Engineering and Computer Sciences for two years. Students participate in a series of programmatic events throughout the school year, including workshops on time management, study skills, preparing for interviews, and social activities designed to increase undergraduate retention in STEM in their first two years of study. Students also participated in monthly progress report meetings with the PI, co-PIs, and faculty members of each course they were enrolled in. This effort was funded by a \$600,000 grant from the National Science Foundation's Scholarships in STEM program.
- Co-Principal Investigator, *Graduating Engineers In the US (GENIUS) Summer Program-Inter-Department Level* (2008-2009)-The GENIUS Summer Program was four-week summer program, designed to introduce rising high school seniors in the Washington, DC area to computer science and mechanical engineering. Students participated in a robotics-based project and competition, entrepreneurial-based workshops, and SAT preparation sessions. This effort was funded by a \$99,000 grant from the National Science Foundation.
- Junior Faculty Summer Research, Army Research Lab Computational and Information Sciences Directorate (June-August 2007)
- Ph.D. Dissertation, Computer Science Department, North Carolina State University (August 2002-May 2005)

Courses Taught

- Introduction to Programming I
- The C# Language
- Introduction to Computers and Information Processing
- Computer Science 0 (Introduction to Systems and Computer Science)
- Computer Science I (Introduction to Programming)
- Computer Science II (Elementary Data Structures)
- Mobile Application Development
- Modeling and Simulation
- Network Modeling and Analysis (Graduate)

- Computer Science Teaching Methodologies (Graduate)
- Foundations in Computer Science Education (Graduate)
- Assessment Techniques in CS Education (Graduate)
- Computer Science Education Practicum (Graduate)
- Computer Science Education Research Methods (Graduate)
- Special Topics in Computer Science Education (Graduate)
- Master's Thesis
- Master's Project
- Special Topics

Graduate Students

- Marlon Mejias, Ph.D. (Graduated May, 2017)
- Ketly Jean-Pierre, Ph.D. (Graduated May, 2017)
- Qi'Anne Knox, Ph.D. (Anticipated Graduation-May 2019)
- Mark Howard, M.S. (Graduated May 2010)
- Geremew Begna, M.S. (Graduated May 2010)
- Temitayo Olajide, M.S. (Graduated May 2008)
- Innocent Ndimubanzi, M.S. (Graduated Dec. 2006)

Academic and Professional Activities

- SC Grades 9-12 CS Standards Writing Team Lead, 2018
- Committee on Undergraduate Curriculum, Winthrop University, 2018-2021
- SACSCOC 5th-Year Report Steering Committee, Winthrop University, 2016-2017
- SC Grades K-8 CS Standards Writing Team Lead, 2016-2017
- Computer Science Steering Committee for SC, 2015-date
- Computer Science Teachers Association, 2015-date
- Lead Writer and Thought Leader, Code.org K-12 CS National Framework, 2015-2016
- Non-Fraternity Advisor, Xi Phi Chapter, Alpha Phi Alpha Fraternity, Inc.-2016-date
- Session Chair, American Society of Engineering Education Conference, M740: Pathways to Success in STEM through Computer Science and Making, 2016
- Graduation Rate Planning Group, Winthrop University, 2015-2016
- CSCI Petitions Committee, Winthrop University, 2015-2017
- Health and Happiness Committee, Winthrop University, 2015-2017
- MBM Networking Event Volunteer, Chima's Steakhouse, 2016
- Session Chair and Committee Member, WORLDCOMP Frontiers in Computer Science/Computer Engineering, 2015

- Undergraduate Student Affairs Committee, Howard University, 2014-2015
- Appointment, Promotion, and Tenure Committee, Howard University, 2013-2014
- Program Committee, CSCI International Conference, 2014
- Assessment Committee and Secretary, Howard University, 2012-2015
- Undergraduate Curriculum Committee, Howard University, 2006-2015
- Advisory Committee on Computer Utilization Committee Member, 2006-2008, 2009-15.
- Reviewer, Scholarship Applications, Richard Tapia Conference on Diversity, 2016-date.
- Workshop Creator and Leader, “Bridging the Divide: Developing Culturally-Responsive Curriculum for K-16 Computer Science Education,” ACM Special Interest Group on Computer Science Education (SIGSCE), 2015.
- Reviewer, Journal of Negro Education - JNE15048, 2015
- Panelist, National Science Foundation HBCU-UP Review Panel, 2014.
- Workshop Creator and Panelist, “Finding Your Fit: Exploring Non-Traditional Computer Science Careers and Opportunities,” Grace Hopper Student Opportunity Lab, Grace Hopper Conference, 2013.
- Higher Education Resource Services (HERS)-Wellesley Institute, Class of 2013-2014.
- Member, Appointment, Promotion, and Tenure Committee, School of Engineering and Computer Sciences, 2011-2014.
- Google CS Faculty Summit, 2008-2012.
- Secretary, College of Engineering, Architecture, and Computer Sciences, 2011-2013.
- Reviewer, IEEE Transactions on Education, 2010-present.
- Panelist, Google HBCU Faculty Summit, 2010-2012.
- Panelist, NASA Education Stakeholders Summit, 2010.
- Cisco TTP Academy Symposium, 2010.
- MIT Minority Faculty Development Workshop, 2010.
- Reviewer, National Science Foundation’s Scholarship for Service (SFS) program, 2010.
- QEM Leadership Development Institute Cohort Member, 2009-2010.
- Track Chair, Frontiers in Education: Computer Science and Computer Engineering (FECS). The World Conference in Computer Science, Computer Engineering, and Applied Computing, Las Vegas, 2010.
- National Science Foundation’s Course, Curriculum, and Laboratory Improvement (CCLI) program, 2009.
- Faculty Research Advisory Council, 2008-2009.
- Track Chair, Network Modeling and Analysis Track Chair, International Conference on Information Technology: Next Generation International Conference, Las Vegas, 2008.
- National Science Foundation Networking Technology and Systems, 2008.
- National Science Foundation Broadening Participation in Computing Panel Member, 2007.
- Information Technology: Next Generation Track Chair, TC4: Information Security and Privacy III, 2007.
- National Society of Black Engineers National Convention Workshop Presenter, “Survival of the Fittest,” 2007.

- Optical Network and Design Modeling Conference Reviewer, 2007
- Center for Excellence in Teaching, Learning, and Assessment Teaching and Learning Technology Committee Member, 2006-date.
- Graduate Faculty, 2006-date.
- Undergraduate Advisory Committee Member, 2006-2008.
- Sabbatical Leave Committee Chair, 2006-2008.
- Tau Beta Pi National Honor Society
- Upsilon Pi Epsilon National Honor Society
- Institute of Electrical and Electronics Engineers.
- National Society of Black Engineers.
- Society of Women Engineers.
- American Association for the Advancement of Science.
- Association of Computing Machinery (ACM)
- ACM Special Interest Group in Computer Science Education.
- American Society of Engineering Education

Community and Outreach Activities

- Guest Speaker/Panelist, Sullivan Middle School Hour of Code, 2016
- Guest Speaker, iSchool Inclusion Institute of Information Sciences, University of Pittsburgh, 2015
- Guest Speaker, Project CS Girls, 2015
- Panelist and Judge, National Science Foundation's Emerging Researchers Network Conference, 2009-2015.
- Interview, "Blacks in Technology Podcast"-(June, 2015) (podcast)-
<http://www.newyorker.com/tech/elements/pandora-white-male>
- Interview, "Pandora and the White Male"-The New Yorker (Aug, 2014) (print article)-
<https://www.blacksintechology.net/bittechtalk-ep-74-w-computer-scientist-dr-nicki-washington/>
- Panelist, The Acting Black Theory: Scientific Discoveries at HBCUs that Change the Narrative of Black Students and Change the World as We Know It, 2012.
- Panelist, "What is Computer Science" at AAAS Family Day's "Meet the Scientist"-Feb. 2011
- Keynote Speaker, National Education Week, Benjamin Banneker High School, 2011.
- ACM Regional Programming Competition Judge, 2010-present.
- Keynote Speaker, Academic Cultural Enrichment Series, Bennett College for Women, 2010.
- Judge, HBCU-UP National Research Conference, 2009-2011.
- Charles H. Flowers High School Science Fair Judge, 2008.
- Benjamin Banneker High School Career Day Speaker, 2007, 2008.
- Microsoft Skins Challenge Speaker, 2007.
- Howard University Society of Women Engineers Speaker, "Women in Engineering," 2007.

Awards

- Most Valuable Professor, Department of Systems and Computer Science, Howard University, 2015.
- Howard University Faculty Senate Inspirational Interdisciplinary Research Award, 2011.
- Howard University Faculty Senate Exemplary Mentoring Award, 2010.
- NASA Harriet G. Jenkins Pre-Doctoral Fellow, 2003-2005.
- David and Lucille Packard Fellow, 2000-2005.

Presentations

- “The CSAIS: A Novel Tool for Measuring the Impact of Ethnic Identity in Underrepresented Computer Science Students,” *American Society of Engineering Education 123rd Annual Conference and Exposition*, 2016, USA.
- “Bridging the Gap: A Virtual Pre-College Program for Incoming Computer Science Students,” *2015 International Conference on Frontiers in Education: Computer Science and Computer Engineering (FECS'15)*, 2015.
- “Identifying and Addressing the Challenges of Industry-Academic Partnerships at Minority-Serving Institutions,” *2015 International Conference on Frontiers in Education: Computer Science and Computer Engineering (FECS'15)*, 2015.
- “Improving Undergraduate Student Performance in Computer Science at Historically Black Colleges and Universities (HBCUs) through Industry Partnerships,” *ACM Special Interest Group on Computer Science Education (SIGSCE)*, 2015.
- “Leveling the Playing Field: Why Cultural Relevance Matters in Computer Science,” Annual American Association for the Advancement of Science Meeting, 2014.
- “Increasing and Improving K-12 Computer Science Education through Partnerships,” *Hawaii University International Conference on Education and Technology*, 2013.
- “The Partnership for Early Engagement in Computer Science (PEECS) Program: Teaching African-American Middle-School Students Computer Science,” *2012 International Conference on Frontiers in Education: Computer Science and Computer Engineering (FECS'12)*, 2012.
- *Graduating Engineers in the U.S.* In *Frontiers in Education: Computer Science and Computer Engineering (FECS) Conference*, 2010.
- *Performance Analysis of Traffic-Groomed Optical Networks Employing Alternate Routing Techniques*, Proceedings, 20th International Teletraffic Conference, 2007.
- *Analysis of a Traffic-Groomed Optical Network with Alternate Routing*. Proceedings of the International Conference on Information Technology: New Generations, 2007.
- Washington, N. *Survival of the Fittest: Successfully Navigating Graduate School*. National Society of Black Engineers National Convention, 2007.
- Washington, A.N. “Analysis of Traffic-Groomed Optical Networks with Alternate Routing,” *Information Technology: Next Generation Conference*, 2007.

- Washington, A.N. “Performance Analysis of Traffic-Groomed Optical Networks Employing Alternate Routing Techniques,” *20th International Teletraffic Conference Proceedings*, 2007.
 - Washington, Nicki. Successfully Completing the Graduate Degree. NASA Harriet G. Jenkins Pre-Doctoral Fellowship Symposium, 2006.
 - Washington, Nicki. Bridging the Gap: The Importance of Outreach Activities by Young Scientists and Engineers in the African-American Community. African-Americans in Space Mini-Conference, 2006.
 - Washington, Nicki. The Importance of Minorities in STEM Disciplines. DC STEM Summit, 2005.
 - Washington, Nicki. Professionalism 101. Howard University Science, Engineering, and Mathematics Workshop, 2005.
 - Washington, Nicki. Choosing Career Options. INROADS Rising Seniors Development Workshop, 2005.
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Collaborators and Other Affiliations

- Shaefny Grays and Sudipta Dasmohapatra, North Carolina State University
- Tracy Griggs, Anna Romanova, and Beth Costner, Winthrop University
- Hamid Arabnia and Ebrahim Parcham, University of Georgia
- Neda Mendami, Islamic Azad University
- Mark Howard, Marlon Mejias, Qi’ Anne Knox, Ketly Jean-Pierre, Howard Sueing, Jahmarae Jackson, Temitayo Olajide, Rotimi Iziduh, and Lucky Adike, Students, Department of Systems and Computer Science, Howard University, Washington, DC.
- Harry G. Perros (Graduate/Thesis Advisor), Professor, Department of Computer Science, North Carolina State University, Raleigh, NC
- Legand Burge, Professor and Chair, Department of Systems and Computer Science, Howard University, Washington, DC.
- Grant Warner, Associate Professor, Department of Mechanical Engineering, Howard University, Washington, DC.