

Professor of the Practice
Duke University
Electrical and Computer Engineering
Computer Science
130 Hudson Hall
Durham, NC 27710
Email: shani.b@duke.edu
URL: www.shanibphd.com

Areas of Specialization

Human-centered design & engineering; Design, implementation, and evaluation of technologies, programs, and curricula to broaden participation in computing and engineering; affective computing

PROFESSIONAL APPOINTMENTS

Duke University, Electrical and Computer Engineering & Computer Science

Cue Family Professor of the Practice, Special Assistant to the Vice Provost of Undergraduate Education and Student Affairs	2023-Pres.
Professor of the Practice, Levitan Faculty Fellow and Special Assistant to the Vice Provosts	2021-2022
Associate Professor of the Practice	2017-2021

University of Florida, Computing and Information Science and Engineering

Associate Professor (tenured)	2015-2017
Program Director of Digital Arts and Sciences & Human-Centered Computing	

Clemson University, School of Computing

Associate Professor, Interim Co-Chair Human-Centered Computing Division	2014-2015
Assistant Professor	2011-2014

Massachusetts Institute of Technology, Media Lab

Research Assistant	2003-2010
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EDUCATION

Massachusetts Institute of Technology, Media Lab	2010
Ph.D., Media Arts and Sciences Advisors: Rosalind W. Picard & Mitchel Resnick	
Massachusetts Institute of Technology, Media Lab	2005
S.M., Media Technology Advisors: Rosalind W. Picard & David Cavallo	
Florida Agricultural Mechanical University	2003
M.S., Electrical Engineering	
Florida State University	2001
B.S., Electrical Engineering	

SPONSORED RESEARCH

Multi-layer Model for STEM Identity Development, Lord Family Foundation, Duke University, PI, \$35,000 (2023-2024)

Inspiring the Next Generation of STEM Learners, Duke University Racial and Social Equity, PI, \$53,531 (2023-2024)

3C Fellows Program, Rathmann Family Foundation, Co-PI, \$50,000 (2022-2023)

The Alliance for Identity-Inclusive Computing Education-Postdoctoral Research Fellowship (AIICE-PRF), National Science Foundation, Co-PI, \$1,250,000 (2022-2026)

Understanding Undergraduate Computing Student Perceptions of Race, Bass Connections, Co-PI, \$25,000 (2022-2023)

NSF INCLUDES Alliance: The Alliance for Identity-Inclusive Computing Education (AIICE): A Collective Impact Approach to Broadening Participation in Computing, National Science Foundation, Co-PI, \$9,965,852 (2021-2026)

AI Institute for Edge Computing Leveraging Next Generation Networks (Athena), Co-PI, \$20,000,000 (2021-2026)

Phase I Small Business Innovation Research: An Intelligent Application for Emotional Support During the COVID-19 Crisis, National Science Foundation, Company Founder & Senior Personnel, \$256,000 (2021-2022)

Google Explore Computer Science Research in the Triangle, Collaborator, \$18,000 (2020-2021)

Phase I Small Business Innovation Research Grant, National Science Foundation, Company Founder & Senior Personnel, \$224,986 (2019-2020)

Women of Color in Computing Collaborative Landscape and Trends Studies, Kapoor Center, \$50,710, PI (2019-2020)

(Prior to Duke)

Virtual Environment Interactions: Exploring Grounded Embodied Pedagogy in Support of Computational Thinking, National Science Foundation, Principal Investigator, \$579,673 (2013 – 2016).

Broadening Participation in Computing-Alliance: Institute for African American Mentoring in Computing Sciences (iAAMCS), National Science Foundation, Co-PI, \$5,089,293 (2013-2018).

Human-Centered Computing Scholars: Fostering a New Generation of Underrepresented and Financially Disadvantaged Researchers, National Science Foundation Division of Undergraduate Education, Co-Principal Investigator, \$551,998 (2012-2014).

Field Studies for the Development and Deployment of a Classroom Engagement Pedometer, Bill and Melinda Gates Foundation, Principal Investigator, \$498,055 (2011-2013).

Immediacy Behaviors in the Classroom, College of Architecture Arts and Humanities, Co-Principal Investigator, \$7,500 (2013).

Environmental Approaches to Increase Engagement and Reduce Dementia-related Disordered Behaviors of those with ADRD, GHS/CU Institute for the Advancement of Healthcare, Co-Principal Investigator, \$29,922 (2013).

The Dancing Alice Project: Choreography & Computer Programming in Middle School, Co-Principal Investigator, \$20,000 (2013).

Dancing Alice, Clemson University, Principal Investigator, \$10,000 (2013).

Integrating App Inventor Across K-12 Activities, Google, Subcontractor, \$15,000 (\$1,000), (2011).

Developing Computational Thinking through Digital Storytelling: Coping with the Effects of the Oil Spill, National Science Foundation, Principal Investigator, \$169,399 (2011).

BPC-DP: A Multi-tiered Mentoring Model for Increasing Minority and Women Participation in Computing (M3), National Science Foundation, Co-Investigator, \$ 499,705 (\$105,000), (2010-2012).

Integrating Computing Across the Curriculum (ICAC): Incorporating Technology into STEM Education Using XO Laptops, National Science Foundation, Subcontract, \$2,809,612, (\$117,886), (2009-2012).

Online Application to Support Inquiry-based Science (OASIS) Teaching in High Density Computing Environments. Department of Education Small Business Innovation Research, Senior Personnel, \$749,510 (2009-2011).

HONORS & AWARDS

Duke University, Presidential Service Award, QuadEX Implementation	2023
ACHI Magazine, Educator of the Year	2022
Governor Roy Cooper Honoree, North Carolina Black STEM Leaders	2022
Program of the Year, 3C Fellows, CoNECD Conference	2022
Caper and Marion McDonald Award for Excellence in Mentoring and Advising, Pratt School of Engineering	2021
Undergraduate Mentor of the Year, Duke University Mary Lou Williams Center for Black Culture	2020
American Education Research Association, Technology, Instruction, Cognition and Learning	2015
Early Career Research Award	
Delta Alpha Pi, Extraordinary Educator Award	2015
University of Florida, Rising to National Preeminence Hire	2015
Clemson University, Professor of the Game	2014
BDPA Epsilon Award, Most Promising Technologist	2013
Diverse Issues in Higher Education, Emerging Scholar	2013
Clemson University, Institute for the Advancement of Healthcare Scholar	2012
Stanford Learning in Formal and Informal Environments Center, Fellow	2007
Samsung, Fellow	2007
Massachusetts Institute of Technology, Graduate Community Fellow, Women's Initiatives	2006
Delta Airline, Fellow	2003
Sean A. Pittman Award for Outstanding Service to the African American Community	2001

National Society of Black Engineers, Torchbearer	2000
Florida State University, Seminole Torchbearer	2000
National Achievement Scholar	1997

PUBLICATIONS

Journal Articles & Book Chapters

1. Chikwetu, L., **Daily, S.B.**, Mortazavi, B.J., Dunn, J. (2023) Automated diet capture using voice alerts and speech recognition on smartphones: A pilot study. *Journal of Medical Internet Research: Formative Research*
2. Parmar, D., Babu, S., **Daily, S.B.** (2022) How Immersive Viewing and Self-Embodiment in VR Learning Experiences Affect Computational Thinking in Middle School Education. *Transactions on Visualization and Computer Graphics*.
3. National Academies of Sciences, Engineering, and Medicine. (2021) Cultivating Interest and Competencies in Computing: Authentic Experiences and Design Factors. Washington, DC: The National Academies Press. <https://doi.org/10.17226/25912>.¹
4. Leonard, A.E., **Daily, S.B.**, Babu, S., Jörg, S. (2020) Coding Moves: Design and Research on Teaching Computational thinking through Dance Choreography and Virtual Interactions. *Journal of Research on Technology Education*.
5. Brinkley, J., Huff, E., Posadas, B., Woodward, J., **Daily, S.B.**, Gilbert, J.E. (2020) Exploring the Needs, Preferences, and Concerns of Persons with Visual Impairments Regarding Self-Driving Vehicles. *Transactions on Accessible Computing*. 13,1, Article 3.
6. Brinkley, J., Posadas, B., Sherman, I., **Daily, S.B.**, Gilbert, J.E. (2019) An Open Road Evaluation of a Self-Driving Vehicle Human-Machine Interface Designed for Visually Impaired Users, *International Journal of Human-Computer Interaction*.
7. Brinkley, J., **Daily, S.B.**, & Gilbert, J. (2019). A policy proposal to support Self-Driving Vehicle Accessibility. *Journal on Technology and Persons with Disabilities*. 7, 35-43.
8. Brinkley, J., **Daily, S.B.**, & Gilbert, J. (2019). Implementing the ATLAS Self-Driving Vehicle Voice User Interface. *Journal on Technology and Persons with Disabilities*. 7, 133-140.
9. Brinkley, J., **Daily, S.B.**, & Gilbert, J.E. (2018). A Survey of Visually Impaired Consumers About Self-Driving Vehicles. *Journal on Technology and Persons with Disabilities*. 6, 273-282.
10. **Daily, S.B.** et al. (2017). Affective Computing: Historical Foundations, Current Applications, and Future Trends. In Jeon, M. (Ed), *Affective Sciences in Human Factors and Human-Computer Interaction*. Elsevier Press.

¹ Book produced as a member of the Committee on the Role of Authentic STEM Learning Experiences in Developing Interest and Competencies for Computing

(Prior to Duke)

11. **Daily, S.B.**, James, M.T., Roy, T., Darnell, S.S. (2015) EngageMe: Designing A Visualization Tool Utilizing Physiological Feedback to Support Instruction. *Technology, Cognition, Instruction, and Learning*. 10(2), 107-126.
12. Leonard, A.E., DeSouza, N., **Daily, S.B.**, Jörg, S., Gundersen, K., Waddell, C., Parmar, D., Xian, X., Gestring, J., Boggs, K. (2015) Embodying and Programming a “Constellation” of Multimodal Literacy Practices: Computational Thinking, Movement, Biology, & Virtual Environment Interactions. *Journal of Language and Literacy Education*, 11(2), 65-93.
13. Hurley, R.A., Hutcherson, D.E., Tonkin, C.E., **Daily, S.B.**, and Rice, J.C. (2016) Measuring physiological arousal towards packaging: tracking electrodermal activity within the consumer shopping environment, *Journal of Applied Packaging Research*, Vol. 8: No. 1, Article 1.
14. Eggert, J., Dye, C.J., Vincent, E., Parker, V., **Daily, S.B.**, Pham, H., Watson, A.T., Summey, H., Roy, T. (2015) Effects of Viewing a Preferred Nature Image and Hearing Preferred Music on Engagement, Agitation and Mental Status in Persons with Dementia. *SAGE Open Medicine*, January-December 2015; Vol. 3.
15. **Daily, S.B.**, Leonard, A.E., Jörg, S., Babu, S., Gundersen, K., Parma, D. (2015) Embodying Computational Thinking: Initial Design of an Emerging Technological Learning Tool. *Technology, Knowledge and Learning*. 20(1), 79-84.
16. Wu, Y., Babu, S. V., Armstrong, R., Bertrand, J. W., Luo, J., Roy, T., **Daily, S.B.**, Dukes, L.C., Hodges, L.F., Fasolino, T. (2014). Effects of virtual human animation on emotion contagion in simulated inter-personal experiences. *IEEE Transactions on Visualization and Computer Graphics*, 20(4), 626-635.
17. Eugene, W., **Daily, S.B.**, Burns, R., Barnes, T. (2014) Building Technological Fluency: Fostering Agents of Change. *Computers in Education Journal*. 5(3). July – September.
18. Hutcherson, D.E., Hurley, R.A., **Daily, S.B.**, Ouzts, A.D. (2013) Talk to Me: Biometrically Adaptive Consumer Packaging. *The International Journal of Society in Society*. 4(3), 109-131.
19. Leonard, A., **Daily, S.B.**, Gundersen, K., (2013) Dancing in Virtual Environments (DIVE): Computational and Embodied Arts Research in Middle School Education. *Voke*. 1(1), 1-26.
20. **Daily, S.B.**, & Eugene, W. (2013) Preparing the Future STEM Workforce for Diverse Environments. *Urban Education*. 48(5), 682-704.
21. Eugene, W., **Daily, S. B.**, & Langer, E. (2012). XO integration: voices from the field. *International Journal of Services, Economics and Management*, 4(1), 62 – 74.
22. Millner, A., & **Daily, S. B.** (2008). *Creating an Educational Ecosystem for Design, Fabrication, and Invention*. In P. Hildreth & C. Kimble (Eds.), *Communities of Practice: Creating Learning Environments for Educators* (Vol. 1). Charlotte, NC: Information Age Publishing Inc.

23. **Daily, S. B.,** & Picard, R. W. (2007). Girls involved in real life sharing: Utilizing technology to support the emotional development of teenaged girls. *Journal of School Counseling*, 5(20).

Conference Papers

1. Peoples, C. Washington, A.N., **Daily, S.B.**, (2023) Race and Collaboration in Computer Science: A Network Science Approach. Paper Presented at *2023 American Society of Engineering Education Annual Conference and Exposition*. Baltimore, MD.
2. Washington, A.N., **Daily, S.B.**, Sadler, C. (2023) A Collective Action Approach to Broadening Participation in Computing. Poster presented at *2023 American Society of Engineering Education Annual Conference and Exposition*. Baltimore, MD.
3. McFalls,E., Xiao, H., Kwesi, J., Fairfax, F. Rogers, A., Washington, A.N., **Daily, S.B.**, Peoples, C., and Bonilla-Silva, E. (2023) Work In Progress: A Novel Approach to Understanding Perceptions of Race Among Computing Undergraduates. Paper presented at *2023 American Society of Engineering Education Annual Conference and Exposition*. Baltimore, MD.
4. **Daily, S.B.**, Eugene, W., He, A., Shelton, C., Thomas, J.O., Orozco, T. (2022, June) Graduating in the Margins: An Analysis of Graduation Rates of Minoritized Women in Computing. Paper Presented at *2022 American Society of Engineering Education Annual Conference and Exposition*, Minneapolis, MN.
5. Sadler, C., **Daily, S.B.**, Washington, A.N. (2022, June) Work in Progress: A Novel Professional Development Program for Addressing Systemic Barriers to Computing Participation. Paper Presented at *2022 American Society of Engineering Education Annual Conference and Exposition*, Minneapolis, MN.
6. Washington, G., **Daily, S.B.**, Mejias, M., McClendon, J. (2021) *Workshop on Broadening Participation in Affective Computing. 9th International Conference on Affective Computing & Intelligent Interaction*. (virtual)
7. **Daily, S.B.**, Gupta, M., Sperling, J., Gray, M., Arnold, A., Perri, K., (2020) Addressing Gender Disparities in Computing Majors and Careers. Paper Presented at *2020 American Society of Engineering Education Annual Conference and Exposition* (virtual).
8. Brinkley, J., **Daily, S. B.** & Gilbert, J. E. (2019). Quick Reply Messaging: A Study of a Core Feature Modification in the Apple CarPlay Automotive Infotainment System and the Impact on System Usability. *Proceedings of the 9th International Conference on Applied Human Factors and Ergonomics and Affiliated Conferences*. Orlando, FL.
9. Parmar, D., Isaac J., Jörg, S., Babu, S., Gundersen, K., DSouza, N., **Daily, S.B.**, Leonard, A.E. (2017) Programming Moves: Design and Evaluation of Applying Embodied Interaction in Virtual Environments to Enhance Computational Thinking in Middle School Students. *Proceedings of IEEE Virtual Reality*, Greenville, SC.

(Prior to Duke)

10. Leonard, A.E., **Daily, S.B.**, Jörg, S., Babu, S. Gundersen, K., Parmar, D., Dsouza, N., Gestring, J., Linn, L., Isaac, J. (2017) Coding Moves: Design-based Research of Virtual Environment Interactions with Middle School Students. *Proceedings of American Educational Research Association*, Washington, D.C.
11. Hurley, R.A., Hutcherson, D., Tonkin, C., **Daily, S.B.**, Rice, J. (2015, June) *Measuring Physiological Arousal Towards Packaging: A Real-time Analysis Within the Consumer Shopping Environment*. Proceedings of the International Association of Packaging Research Institutes, Valencia, Spain.
12. Leonard, A.E., **Daily, S.B.**, Jörg, S., Babu, S. (2015, April). *Designing Embodied Pedagogical Strategies for Learning Computational Thinking: A Design-based*. Paper presented at the meeting of the American Educational Research Association, Chicago, IL.
13. Newsome, N., Chaturvedi, H., Babu, S.V., Luo, J., Ebrahimi, E., Roy, T., **Daily, S.B.**, Fasolino, T. (2015, March). *Comparative Evaluation of Stylized versus Realistic Representation of Virtual Humans on Users' Emotional Responses in Simulated Interpersonal Experiences*. Presented at the meeting of the IEEE International Conference on Virtual Reality, Arles, France.
14. Gilbert, J.E., Moon, D., Dunbar, J., Solomon, A., & **Daily, S.B.** (2014, November) *Lab Daze: A Web-Series Aimed at Changing the Student's Perceptions of Scientist*, Paper presented at the meeting of the International Conference of Urban Education, Montego Bay, Jamaica.
15. Leonard, A.E., **Daily, S.B.**, Gundersen, K. DSouza, N. (2014, October) *A Digital Map: Locating Embodied Cognition and Computational Thinking Research Within the Field*. National Dance Education Organization, Chicago, IL.
16. Jörg, S., Leonard, A., Babu, S., Gundersen, K., Parmar, D., Boggs, K., and **Daily, S.B.** (2014). *Character animation and embodiment in teaching computational thinking*. In ACM SIGGRAPH 2014 Posters (SIGGRAPH '14). ACM, New York, NY, USA, Article 4.
17. **Daily, S.B.**, Leonard, A., Jörg, S., Babu, S. Gundersen, K. (2014, March) *Dancing Alice: Exploring Embodied Pedagogical Strategies for Learning Computational Thinking*. Paper presented at the meeting of the ACM SIG on Computer Science Education, Atlanta, GA.
18. **Daily, S.B.**, Leonard, A., Jörg, S. Babu, S. (2014, April). *Dancing in Virtual Environments: Exploring Grounded Embodied Pedagogy in Support of Computational Thinking* Paper presented at the meeting of the American Educational Research Association, Philadelphia, PA.
19. Leonard, A., **Daily, S.B.** (2014, April). *The Dancing Alice Project: Computational and Embodied Arts Research in Middle School Education*. Paper presented at the meeting of the American Educational Research Association, Philadelphia, PA.
20. Eugene, W. Gilbert, J. **Daily, S.B.** (2013, October) *AADMLSS: Improving Mathematical Skills by Using a Cultural Relevant Learning System*. Paper presented at Pursuing Extraordinary Outcomes in Public Education National, Charlotte, NC.
21. **Daily, S.B.**, Myers, D., Darnell, S. Roy, T., James, M. (2013, July). *Understanding Privacy and Trust Issues in a Classroom Affective Computing System Deployment*. Paper presented at meeting of HCI International, Las Vegas, NV.

22. **Daily, S.B.**, Gardner-McCune, C., Gilbert, J., Hall, P.W., McMullen, K., Remy, S.L., Woodard, D. (2013, June). *Alternate Pathways to Careers in Computing: Recruiting and Retaining Women Students*. Paper presented at the meeting of American Society for Engineering Education (ASEE) Annual Conference, Atlanta, GA.
23. Eugene, W. **Daily, S.B.**, Burns, R., Barnes, T. (2013, June) *Building Technological Fluency: Fostering Agents of Change*. Paper presented at the meeting of American Society for Engineering Education (ASEE) Annual Conference, Atlanta, GA.
24. Boyer, M. Herro, D., **Daily, S.B.**, Gilbert, J. (2013, June) *Collaboration in Context: A Working Example for Connecting University Stakeholders in Digital Media & Learning*. Paper presented at the meeting of Games+Learning+Society Conference 9.0, Madison, WI.
25. **Daily, S.B.**, Cotten, S., Gibson, P.A., Howell-Moroney, M., O'Neal, L.J. (2013, March). *Teacher Self-Efficacy And Usage: The Case Of The XO Laptop In Alabama*. Paper presented at the meeting of the Society for Information Technology and Teacher Education, New Orleans, LA.
26. Roy, T., Gupta, A., James, M., Darnell, S., **Daily, S.B.** (2013, February) *A Participatory Design Process for Developing a Tool to Visualize Classroom Engagement*. Richard Tapia Celebration of Diversity in Computing, Washington, D.C.
27. Alvarez I., Lopez-de Ipiña, K., **Daily, S.B.**, Gilbert, J.E. (2012, October). *Emotional Adaptive Vehicle User Interfaces: moderating negative effects of failed technology interactions while driving*. Paper presented at the 2nd Workshop of Automotive Natural Interfaces together with 4th International Conference on Automotive User Interfaces, AutoUI'12, Portsmouth, NH.
28. Scott, K., Gomez, K. **Daily, S.B.** (2012, July). *Developing Students' Disciplinary Historical Thinking: The Role of Textual and Instructional Resources*. Paper presented at the 10th International Conference of the Learning Sciences, Sydney, Australia.
29. **Daily, S.B.** (2012, June) *ChangeLab: Computational Expression For Community Engagement*. Paper presented at the meeting of Technoscience as Activism, Troy, New York.
30. Gray, J. Johnson, D. Wyss, M. **Daily, S.B.** (2012, March). *Broadening Participation in Computing: The Multi-tiered Approach*. Paper presented at the 50th Association for Computing Machinery Southeast Conference, Tuscaloosa, AL.
31. Wyss, J., Gray, J., **Daily, S.B.**, Abbott, G., Shih, A., Snyder, S., Bester, K. Stevens, J. (2012, February) *BPC-DP: A Multi-tiered Mentoring Model (M3) for Increasing Minority and Women Participation in Computing*. Presented at the CE21 Community Meeting, Washington, D.C.
32. Chapman, R., & **Daily, S.B.** (2011, July). *OASIS: An online professional learning community for inquiry-based teaching*. Poster presented at the meeting of the 9th International Computer-Supported Collaborative Learning Conference, Hong Kong, China, Vol. 2, pp. 974-975.
33. **Daily, S.B.**, Brennan, K. (2011, April) *Empathy Development Environments: A Framework for Supporting the Cultivation of Empathic Capacities*. Paper presented at the meeting of the American Education Research Association, New Orleans, LA.

34. **Daily, S.B.**, Brennan, K. (2010, April). *Trajectories of Identity: Designing a Collaborative Learning Environment That Supports the Development of Empathy*. Paper presented at the meeting of the American Education Research Association, Denver, CO.
35. Carter, A. **Daily, S.B.**, Daily, J. (2010, March). *ScratchLabs: A Novel Professional Development Program for Technology Integration*. Paper presented at the meeting of the *Society for Information Technology and Teacher Education*, San Diego, CA.
36. **Daily, S. B.** (2010, March). *Three Iterations: A Research Study Generating Design Principles for Empathy Development Environments*. Paper presented at the meeting of the Educational Design Research Conference: Local Impact and Global Change, Athens, GA.
37. **Daily, S.B.**, Brennan, K. (2008, June). *Utilizing Technology to Support the Development of Empathy*. Presented at the meeting of the Proceedings of Interaction Design and Children, Doctoral Consortium. Evanston, IL.
38. **Daily, S.B.**, Headen, I. (2008, March). *Toward the design of a computational platform to foster student-teacher relationships*. Proceedings of the Harvard Student Research Conference Cambridge, MA.
39. Forssell, K., **Daily, S.B.**, Eugene, W. (2008, March). *Measuring Impact: A game design workshop changes attitudes toward computer science*. Presented at the meeting of the ACM SIG on Computer Science Education, Portland, OR.
40. **Daily, S.B.**, Eugene, W., & Prewitt, A. (2007, April). *The Development of Social Capital in Engineering Education to Improve Student Retention*. Presented at the meeting of the 2007 ASEE Southeastern Section Annual Conference, Louisville, KY.
41. Prewitt, A., **Daily, S.B.**, and Eugene, W. (2007, June) *Minority Retention and Success in Engineering: Diversifying the Pipeline through the Development of Social Capital*. Presented at the meeting of the 2007 ASEE Annual Conference, Honolulu, HI. [Awarded Best Paper]
42. Mills-Henry, I., Chapman, R., Brittain, E.B., Hampton, M., **Daily, S.B.**, Walcott, A., Bryant, R. (2007, June). *The Academy of Courageous Minority Engineers: A Model For Supporting Minority Graduate Students in the Completion of Science and Engineering*. Presented at the meeting of the 2007 ASEE Annual Conference, Honolulu, HI.
43. **Daily, S.B.**, & Picard, R. W. (2006, April) *G.I.R.L.S. Talk, A Proactive Emotional Health Technology*. Presented at the American Educational Research Association, New Members Poster Session, San Francisco, CA.
44. Picard, R. W., & **Daily, S. B.** (2005, April) *Evaluating affective interactions: Alternatives to asking what users feel*. Presented at the SIGCHI Workshop on Evaluating Affective Interactions: Innovative Approaches, Portland, OR.
45. Cavallo, D., Sipitakiat, A., Basu, A., **Bryant, S.**, Welti-Santos, L., Maloney, J., et al. (2004, June). *Roballet: Exploring Learning Through Expression in the Arts through constructing in a Technologically Immersive Environment*. Presented at the meeting of the International Conference on Learning Sciences, Santa Monica, CA.

46. Cavallo, D., Basu, A., **Bryant, S.**, & Sipitakiat, A. (2004, June). *Opening Pathways to Higher Education Through Engineering Projects*. Presented at the meeting of the ASEE Annual Conference, Salt Lake City, UT.
47. **Daily, S.B.**, & Picard, R. W. (2004, October). *INNER-active Journal*. Presented at the 12th ACM International Conference on Multimedia, Workshop on Story Representation, New York, NY.

PRESENTATIONS & INVITED TALKS

1. **Daily, S.B.** “Broadening Participation from the Top Down” Keynote Address. Computing Research Association LEVEL-up convening. (January 2024)
2. **Daily, S.B.**, Parham, P. “AI & Ethics in Entrepreneurship” Panel Presentation. Durham American Underground and Google for Startups. (October 2023).
3. **Daily, S.B.**, Nkonde, M., Thomas, J.O “Curbing Disenfranchisement: Afrofuturism, Predictive Algorithms, and Creative Tech”. Featured Closing Panel. BlackComputeHer (March 2023)
4. **Daily, S.B.** “Diversifying Computing: Real Change Must Come from Within”. Keynote Address. SIG Computer Science Education (March 2022)
5. Camano, C., Brown, D., Kennedy, A., **Daily, S.B.** “Current and future trends impacting inclusivity in high-performance scientific computing” Plenary Panel Session at Society for Industrial and Applied Mathematics (February 2022)
6. Washington, A.N., **Daily, S.B.**, Sadler, C., Truskey, G. “AiiCE: A Large-Scale Effort to Cultivate Inclusive Excellence in Computing” Duke Research Week (February 2022)
7. Day, S., Washington, A.N., **Daily, S.B.**, Washington, G. “Flowing, Not Forcing: Finding and Maintaining Authenticity as Black Women in Academia. Grace Hopper Celebration of Diversity in Computing. (September 2021)
8. **Daily, S.B.** “Cultivating Computing Competence” CONNECT Conference Keynote (June 2021)
9. Washington, A.N., **Daily, S.B.**, Sadler, C. “Cultural Competence in Computing: A Case Study on a Systemic Approach to Addressing Tech Diversity Issues” URx Forward (May 2021)
10. Daily, S.B., Daniels, Y., Roach, S., Worthy, R. “Social Impact Panel” National Society of Black Engineers Technical Professional Conference 2021 Black Technology & Innovation Symposium (April 2020)
11. Daily, S.B., Streater, J.L., McMullen, K., Ola, K. “Empowering Modern Figures” ACM-W North America Panel (March 2020)
12. Day, S., Washington, A.N., **Daily, S.B.**, McMullen, K., Marshall, B. “Flowing, Not Forcing: Finding and Maintaining Authenticity as Black Women in Academia. SIG Computer Science Education. (March 2020)
13. Blank, A., **Daily, S.B.**, Ellis, M. “Teaching Faculty Careers” SIG Computer Science Education (March 2020)

14. **Daily, S.B.** “My Journey in STEM and Entrepreneurship” Bouncing Bulldogs Intellectual Property Group. Chapel Hill, NC (November 2019)
15. Washington, N., **Daily, S.B.**, Burge, J., Marshall, B. “Flowing, Not Forcing: Finding and Maintaining Authenticity as Black Women in Academia. Grace Hopper Celebration”. Orlando, FL (October 2019)
16. Eugene, W., **Daily, S.B.** “Examining the Double Bind” Women of Color in Computing Collaborative Convening (July 2019).
17. **Daily, S.B.**, Johnson, L.D. “Black Women in Computing” University of Alabama Legacy Project. Virtual Panel (July 2019)
18. **Daily, S.B.**, “Mistakes I’ve Made Along My STEM Journey” Miles College Convocation. Fairfield, AL (April, 2019).
19. **Daily, S.B.** “We Got Next: Expanding Opportunities for Science Participation” Science Teachers Association of the State of New York, Rochester, NY (November, 2018).

(Prior to Duke)

20. **Daily, S.B.**, “Me, You, and Technology Around the World” Bethel University Convocation (October, 2016)
21. Rogers, C., **Daily, S.B.**, Millner, A., Moriarty, E. “Steaming Ahead: Strategies for Bringing Science, Technology, Engineering, Arts, and Math Learning to All Students,” 8th Annual Breakthroughs in Education, Cambridge, MA (December, 2015).
22. Leonard, A.E., **Daily, S.B.** “I am a cell: Artistic processes of 5th graders merging computational thinking, movement, & biology,” National Dance Education Conference, Phoenix, AZ, (October, 2015).
23. **Daily, S.B.** “Introducing Computational Thinking Through Movement and Interaction with a Virtual Environment” STEM Think Tank and Conference Nashville, TN, (July, 2015).
24. **Daily, S.B.**, “IT is Interdisciplinary,” South Carolina Technical Schools, Code-IT Academy (June, 2015)
25. **Daily, S.B.**, “Affective Computing,” MIT Online Science, Technology, & Engineering, Community (December, 2014)
26. **Daily, S.B.** “Affective Computing: Emotion Detection, Reflection, Interactivity,” Florida State University, ACC Road Scholars (September, 2014).
27. **Daily, S.B.**, “Dance and Technology,” Florida State University, Department of Dance Guest Lecture (September, 2014).
28. **Daily, S.B.**, “Affective Computing,” A.J. Whittenberg Elementary School, Lunch and Learn Speaker Series (September, 2014).

29. **Daily, S.B.**, “Virtual Environment Interactions: Alternative Pathways to Interest in Computing,” Tufts University, Center for Engineering Education Outreach Lecture Series (May, 2014)
30. **Daily, S.B.**, “One Body, Many Parts: The Constructionist Strategy for Education,” Bethel University Convocation Address, (March, 2014).
31. **Daily, S.B.**, “More Than a Feeling: Utilizing technologies to Support Social, Emotional, and Computational Learning,” University of Florida, (February, 2014).
32. James, M. T. & **Daily, S. B.** *Design of a Mobile Application to Support Food Consumption Monitoring and Decision Making*. Poster presented at the 2014 meeting of the Association of Computing Machinery (ACM) Richard Tapia Celebration of Diversity in Computing, Seattle, WA. (2014, February).
33. Dotson, J., Gundersen, K., **Daily, S.B.** *DIVE: Developing a Virtual Environment to Teach Computational Thinking*. Richard Tapia Celebration of Diversity in Computing, Seattle, WA. (2014, February)
34. **Daily, S.B.**, “Dancing In Virtual Environments: Alternative Pathways to Interest in Computing,” Virginia State University, Science, Technology, Engineering, Agriculture, Mathematics and Health Colloquium Series (October, 2013).
35. **Daily, S.B.**, “What if a Computer Could Learn Your Feelings?,” *Virginia State University Kid’s Tech University* (October, 2013).
36. Leonard, A., **Daily, S.B.**, Gundersen, K., “The Dancing Alice Project: Choreography and Computer Programming in Middle School,” *National Dance Education Organization*, Miami, Florida (October, 2013).
37. **Daily S.B.**, Raven, C., Mitchell, C. Rankin, Y., Reichgelt, Han, “Why STEM Matter,” *Black Girls Code Robot Expo*, Atlanta, Georgia, (February, 2013).
38. **Daily, S.B.**, “Towards the Development of a Physiological Measure for Engagement,” *What is Engagement in Math and Science Learning Workshop at the 10th International Conference of the Learning Sciences*, Sydney, Australia, (July, 2012).
39. **Daily, S.B.** “Computing 2 Connect: Utilizing Technologies to Blend Social, Emotional, and Computational Learning,” *Spelman College ASPIRE*, Atlanta, Georgia, (April, 2012).
40. **Daily, S.B.**, Eugene, W., Roach, S., Tangle, J. “Why I left Engineering: Stories of Non-Traditional Careers,” *National Society of Black Engineers*, Pittsburgh, Pennsylvania, (March, 2012).
41. **Daily, S.B.** “Interdisciplinary Teaching with Scratch,” Teaching with Technology Symposium. Clemson, SC, (December, 2011).

42. **Daily, S.B.** “Scratch Across the Curriculum,” *22nd Annual Society for Information Technology and Teacher Education Conference*, Nashville, TN, (March, 2011).
43. Brennan, K., **Daily, S.B.**, & Resnick, M. “Programming and pluralism: Diversifying participation in computational creation,” *Digital Media and Learning Conference*, La Jolla, CA, (February, 2010).
44. **Daily, S.B.**, Carter, A., Daily, J. “Laptops and K-12 Education in the US: Diversifying Participation,” *Digital Media and Learning Conference*, La Jolla, CA, (February, 2010).
45. Daily, S.B., Carter, A., Daily, J. “ChangeLab,” *Digital Media and Learning Conference, La Jolla, CA*, (February, 2010)
46. Rogers, M., Forssell, K., Martin, C.K., Barron, B., Eugene, W., **Daily, S.B.**, Acholonu, U., Takeuchi, L. Walter, S., Briggs, K. “Collaborative Game Design: Analysis from a Middle School Programming Project” *American Educational Research Association*, New York, NY (April, 2008).
47. Cavallo, D., Weusijana, K., **Daily, S.B.**, Eugene, W. “Low-Cost Advanced Education Technologies,” *National Society of Black Engineers Annual Conference*, Columbus, OH (March, 2007).
48. **Daily, S.B.**, Gosha, K., McMullen, K., Andrews, S. “Navigating Graduate School,” *African American Researchers in Computer Science Conference*, Auburn, AL, (July, 2007).
49. Wilkerson, D., Francis, J.O., King, M.H., **Daily, S.B.** “Sustainability in Communities of Color: Creating Inclusion,” *Northeast Sustainable Energy Association Building Energy*, Boston, MA, (March, 2006).
50. **Daily, S.B.** “Digital Story Explication as it Relates to Emotional Needs and Learning,” *Robert Woods Johnson Foundation*, Princeton, NJ (June, 2005).

PRESS COVERAGE

CSEd Podcast, <i>Alliance for Identity-Inclusive Computing Education</i>	2023
Modern Figures Podcast, <i>Affective and Effective</i>	2023
Nature, <i>Computer science has a racism problem: these researchers want to fix it</i>	2022
Duke University, <i>Duke Team Awarded Wins \$1.25 Million to Create New Identity-Inclusive Postdoc Program</i>	2022
Duke Today, <i>Meet the QuadEx Faculty Fellows</i>	2022
Duke Chronicle, <i>Duke’s QuadEx Faculty Fellow Program looks to bring the classroom to the dorms</i>	2022
Duke Government Relations, <i>Creating Pathways to Diversify STEM: Get to Know Shani Daily</i>	2022
Press Release, <i>Governor Cooper Honors North Carolina’s Black STEM Leaders During Black History Month</i>	2022
Duke Today, <i>NC Honors Two Duke Faculty as Black Leaders in STEM</i>	2022
ZDNet, <i>Honoring Black History Month in tech companies</i>	2022

ZDNet, <i>How much of tech history involves Black history?</i>	2022
Diverse Issues in Higher Education, <i>The National Science Foundation Awards \$10 Million to Duke to Diversify STEM</i>	2021
National Cybersecurity Today, <i>N.C. Professors awarded \$10 million to increase diversity in computing</i>	2021
Communications of the ACM, <i>Duke Professors Awarded \$10M NSF Grant to Increase Diversity in Computing</i>	2021
QCity Metro, <i>N.C. professors awarded \$10 million grant to increase diversity in computing</i>	2021
Duke Chronicle, <i>National Science Foundation launches artificial intelligence center at Duke</i>	2021
WRAL Tech Wire, <i>Duke U. kicks off Cultural Competence in Computing program</i>	2021
The Chronicle, <i>'Really about educating educators': New initiatives aim to improve diversity in computer science department</i>	2021
DukeEngineer, <i>Uplifting, Educating, and Listening: It's not Over</i>	2021
After Office Hours Podcast, <i>Season 2 Episode 3</i>	2020
Raleigh News & Observer, <i>Duke's Technology Scholars Program Helps Women Succeed in a Technology Path</i>	2018
Duke Today, <i>For Women Student Coders, DTech Provides Strength in Numbers</i>	2018
Duke, Pratt School of Engineering, <i>From Durham to Silicon Valley: Duke Technology Scholars Program Helps Women Thrive in Tech</i>	2017
Chronicle of Higher Education, <i>Steering More Women to Silicon Valley</i>	2017
Science Magazine, <i>Changing the Face of Computer Science</i>	2016
ASEE Prism, <i>National African American History Month Remarkable Engineers</i>	2016
USAToday, <i>Bridging Technology's Gender Gap</i>	2015
Chicago Tribune, <i>Digital Divas weave STEM into fashion and dance challenges</i>	2015
Book Chapter Feature, <i>Technology, Cool Women Who Code (Girls in Science)</i>	2015
WNCT, <i>Powerful Women Summit in Greenville</i>	2015
ASEE Prism, <i>STEM Education – Shall We Dance?</i>	2015
Science Codex, <i>Dance Choreography Improves Girls' Computational Skills</i>	2015
Web Daily, <i>Female Students' Computer Skills Improve with Dance Choreography</i>	2015
Science World Report, <i>Dance Choreography May Improve Computation Skills</i>	2015
Nation Swell, <i>Can Girls Dance Their Way Toward Computer Programming Careers?</i>	2015
Atlanta Blackstar, <i>7 Black Innovators and Inventors in STEM Fields Who Blerds Should Know About</i>	2014
La Nacion Technologia, <i>Danza y programación pueden atraer niñas a carreras informáticas</i>	2014
Clemson Newsstand, <i>Morph Than Meets the Eye – Head On Campaign</i>	2014
Clemson Newsstand, <i>Clemson University brings together technology and art at Artisphere</i>	2014
Greenville News, <i>Virtual character designed to spark girls' interest in science; Research aimed at 5-6 graders</i>	2014
Fox Carolina News, <i>Researchers Creating Virtual Characters</i>	2014
BDPA iRadio, <i>Guest Host</i>	2013
Girl Scouts, <i>For Girls, Careers in Electrical Engineering</i>	2013
National Science Foundation, LiveScience, <i>Machines Deeper Understanding of Human Emotion</i>	2013
Diverse Issues in Higher Education, <i>Engineer Works to Improve Education with Technology</i>	2013
Clemson University Feature Story, <i>Fusing a Love of Dance and Technology</i>	2013
Anderson Independent Mail, <i>Clemson Educator Named Emerging Scholar</i>	2013

Feature, <i>TechNeedsGirls.org</i>	2012
Forbes, <i>Gates Responds to GSR Bracelet Controversy</i>	
Washington Post, <i>\$1.1 million-plus Gates grants: 'Galvanic' bracelets that measure student engagement</i>	2012
Chicago Tribune <i>Biosensors to monitor students' attentiveness</i>	2012
Inside Higher Ed, <i>Critical Mass</i>	2012
Vice News, <i>Secret Life: Shaundra Daily Gives new Meaning to Old School</i>	2011
PBS Nova TV Series, <i>Secret Life of Scientists and Engineers</i>	2011
AL.COM, <i>Company Launches Technology Workshops for Youth</i>	2011
AL.COM, <i>How Big of a Fan are You? Mountain Brook's Machine Can Tell You</i>	2011
Under the Microscope, <i>Engineer Links Computers, Emotion, and Education</i>	2010
NSF.gov, <i>XO Laptops Inspire Learning in Birmingham, AL</i>	2010
UAB News, <i>UAB offers XO Laptop Computer Workshops for Teachers</i>	2009
NewsWise, <i>UAB Wins NSF Grant to Train Teachers to Use XO Laptop</i>	2009
Boston Globe, <i>Wired for Excitement</i>	2007
Engineering Your Life	2007
Feature, Cambridge Science Festival	2006
American Association for the Advancement of Science, <i>Science Update Radio</i>	2006
CBN, <i>The Internet of Things</i>	2006

PATENT

“Washable Wearable Biosensor”, United States, 8,140,143, with Picard; Rosalind W., Williams; Clayton J., Fletcher; Richard Ribon, Eydgahi; Hoda, Daily; Shaundra Bryant, Poh; Ming-Zher, Wilder-Smith; Oliver Orion, Kim; Kyunghye, Dobson; Kelly, Lee; Jackie Chia-Hsun

EXHIBITS & PERFORMANCES

Artisphere, Virtual Environment Interactions (VENVI), Clemson STEAM Tent (2015)
Arts Alive!, Virtual Environment Interactions, Stone Academy for Communication Arts (2015)
iImagine Upstate, Virtual Environment Interactions (2015)
Share Fair Nation/ Stemosphere, Virtual Environment Interactions, Morgridge Family Foundation (March 2015)
Science Fun Day, Stone Academy (2014)
Artisphere, Virtual Environment Interactions (VENVI), Clemson STEAM Tent (2014)

ADVISING

Postdoc Advising

Prefontaine, Brean (2023-Present)
Jiminez, Yerika (2023 – Present)
Peoples, Crystal (2022- Present)

Washington, Gloria, “Ear Feature Analysis, Extraction Tools, and Classification,” (2015)

Graduate Advising/Committees

(*Indicates Advisor/Co-Advisor; +Member of underrepresented group)

Wu, H.	ECE, MS	April 2020	“RAT-FS: Efficient Storage Tiering Solutions for Remote Filesystem Storage”
Ying, N.	ECE, MS	April 2020	“Easy Apply”
Zhao, Y.	ECE, MS	April 2020	“Train Control Policy Optimization Based on Reinforcement Learning”
Guo, W.	ECE, MS	April 2020	“Mini UPS System”
Liu, J.	ECE, MS	April 2020	“Social Survey Using Computer Vision & Machine Learning Methods”
Chen, Z.	ECE, MS	April 2020	“Towards an Artificial Intelligence Strategy to Conquer Game Risk”
Crawford, B.	ECE, MS	April 2020	“Development of SERS-based Electrowetting on Dielectric Digital Microfluid”
+Brinkley, J.L.	HCC, PhD	July 2018	“Autonomous Vehicles and Visually Impaired Operators”
*+Roy, T.	HCC, PhD	May 2018	“SecondLook: A Prototype Mobile Phone Intervention for Digital Dating Abuse”
+Andujar, M.	CE, PhD	July 2017	“Aiding users to self-regulate their attention through Quantified-Self feedback while performing a learning task from a Brain-Computer Interface”
Cordar, A.	CE, PhD	Jun 2017	“Using Mixed Reality Humans to Improve Communication Skills”
*+James, M.	HCC, PHD	Dec 2015	“Iterative Design and Testing of a Mobile Application to Support Food Consumption Monitoring and Decision Making Health Disparities”
*+Johnson, A.	HCC, PhD	Dec 2015	“Language Matters: Interactive Plain Language Tutor for Voting Language”
+Mcclendon, J.	CS, PhD	May 2015	“Optimization of a Language Model for the Classification of Queries in a Script Based Conversational Agent”
*+Darnell, S.	CS, PhD	May 2015	“EngageMe: A Visualization for Teacher Preparation”
*+Alnizami, H.	HCC, PhD	Dec 2014	“A Novel Approach To Identifying And Interpreting Vehicle Pictographic Warning Symbols Through Head Wearables While Driving”
*+Abegez, T.	HCC, PhD	Nov 2014	“Design With Emotion: Improving Web Search Experience For Older Adults”
+Lyle, J.	CS, PhD	Dec 2014	“Gender and Ethnicity Classification Using Partial Face In Biometric Applications”
+Ekandem, J.I.A.	HCC, PhD	Jul 2014	“Ambient Hues and Audible Cues An Approach To Automotive User Interface Design Using Multi-Modal Feedback”
Wu, Yanxiang	CS, MS	Jun 2014	Non-Thesis
*Gupta, A.	CS, MS	Aug 2013	Non-Thesis

*+Roy, T.	CS, MS	Aug 2013	Non-Thesis
+Gosha, K.	HCC, PhD	May 2013	“The Application of Relational Agents for Mentoring African American STEM Doctoral Students”
+Alvarez, I.	CS, PhD UPV/EHU	Dec 2012	
+Powell, E.	CS, PhD UNCC	Aug 2012	“A Framework for the Design and Analysis of Socially Pervasive Games”

SERVICE

University

Department:

Member, ECE Strategic Vision Committee (2022-2023)
 Member, ECE Software Engineering Education Committee (2023-)
 Co-Chair, ECE Diversity Committee (2018-2022)
 Member, ECE Curriculum Revision Committee (2021)
 Member, APT Review Committee (2020)
 Member, Computer Science Faculty Search Committee (2019)
 Member, ECE Faculty Search Committee (2019)
 Director, Digital Arts and Sciences Program (2015 - 2017)
 Chair, CS+Everything Task Force (2016- 2017)
 Chair, Preeminent Hire in Autonomous Systems Committee (2016)
 Member, Preeminent Hire in HCC Search Committee (2015)
 Member, Student Services Staff Search Committee (2015)
 Member, HCC Chair Search (2014-2015)
 Member, External/Industrial Affairs Committee (2014)
 Member, Director School of Computing Search Committee (2012- 2014)
 Advisor, School of Computing Graduate Student Association (2012- 2014)
 Member, Graduate Recruiting Committee (2011 - 2015)
 Member, Portfolio Review Committee (2011 - 2015)

School:

Faculty Director, Duke Technology Scholars Program (2017- Present)
 Faculty Liaison, Diversity, Equity, and Inclusion, Board of Visitors (2022- Present)
 Faculty Liaison, Education and Student Experience, Board of Visitors (2017-2021)
 Executive Committee, Pratt Diversity, Equity, Inclusion, and Community (2020-Present)
 FEMMESHack, Panelist (2020)
 Duke Charlotte Women’s Forum, Breaking the Tech Ceiling (2020)
 Panelist, Engineering While Black (2020)
 Panelist, Rubenstein Scholar Spotlight (2019)
 Committee Member, Engineering Learning Commons (2019)
 Faculty Coordinator, Inspiring Minds Student Visit Weekend (2018)
 Reviewer, Duke Reginaldo Howard Memorial Merit Scholarship, (2018, 2021)
 First-Year Computational Course Design Committee (2018-2019)
 Associate Dean of Student Affairs Search Committee (2015)
 CAAH/CES STEAM Task Force (2014-2015)

Banner Carrier, Convocation (2011)

University:

Committee Member, AI/ML Faculty Search Committee (2023)
Presenter, Board of Trustees Community Engaged Service Panel (2023)
Member, Duke Institute for Brain Sciences, Faculty Advisory Board (2023)
Faculty Host, MLWC Black Femme Dinner (2023)
Presenter, SIGAP Conference hosted by Duke Development (2023)
Member, Vice Provost's Interdisciplinary Strategy Council Committee (2022- Present)
Presenter, Faculty Advancement NTT Promotion Workshop (2022)
Presenter, Annual Fund Advisory Board (2022)
Member, Graduate School Bootcamp Committee (2022)
Discussant, Board of Trustees meeting (2022)
UG Education Discussion Leader, Board of Trustees meeting (2021)
Committee Member, Vice Provost for Library Affairs (2021)
Committee Member, Next Generation Living Learning Experience (2021)
Interviewer, Rubenstein Scholarship (2018, 2021)
Working Group, Center for Computational Thinking (2021)
Duke Black Student Alliance Initiative Faculty Panel (2019, 2021)
Duke NPHC Meeting and Greet (2021)
Delta Sigma Theta, Black Faculty Meet and Greet (2020, 2021)
Innovation and Entrepreneurship Core Faculty (2018-Present)
Host, Duke Conversations (2018)
2020 Forward: Graduate Strategic Planning Committee (2015)
ACE Leadership Women's Forum Planning (2015)
Facility Design, Watts Family Innovation Center (2011 - 2012)
Design Team, Clemson PK-5 Lab School (2012)
Interviewer, Clemson National Scholars Program (2011 - 2015)

Professional

National: Advisory Board: National Academies of Science Committee on Authentic STEM Learning Experiences in Developing Interests and Competencies for Technology and Computing (2019-2021)
ACM-W North America Empowerment of Marginalized Communities Subcommittee (2020-2021)
National Science Foundation Grant Review Panel (multiple; 2011-Present)
National Institute of Health Grant Review Panel (multiple; 2011-Present)

Project Advisory: Advisory Board, NSF Funded Project: CUE-M: LEVEL UP: Charting a Pathway toward Inclusive Computing (2023 – Pres)
Advisory Board, NSF Funded Project: UR2PhD (2023- Present)
Advisory Board, NSF Funded Project: Collaborative Research: Using Culturally Sustaining STEM+C Learning Environments to Explore Computational Learning & Identity (2018-2020)

Program Committee: Program Committee, Black Issues in Computing Education Symposium (2024)
Grace Hopper Celebration of Women in Computing, Organizational Transformation Program Committee (2018-2019)

National Society of Blacks in Computing (2017)
Research in Equity and Sustained Participation in Engineering, Computing, and
Technology (RESPECT) Conference (2015)
IEEE Symposium on Visual Languages and Human-centric Computing (2015)
Grace Hopper Celebration of Women in Computing, Technical Program Committee
(2013)

Reviewer: Behavior & Information Technology
AERA Open
Computers & Education
Technology, Knowledge, and Learning
ACM Transactions of Computing Education
ACM SIGCHI Conference on Human Factors in Computing Systems International Journal
of Human-Computer Studies
Journal of Teaching and Learning with Technology
American Education Research Association
American Society for Engineering Education
Richard Tapia Celebration of Diversity in Computing
International Conference of the Learning Sciences

Community

Volunteer: Board Member, Knox Street Studios (2022 -)
Board President, Inspiring Minds Raleigh-Durham (2020-)
Community Code, LLC., Advisory Board (2014- 2017)
Girl Scouts Powerful Women Summit (2015)
Code IT Academy Advisory Board Member (2014 - 2015)
Center for Educational Excellence in Alternative Settings, Judge, Starting from Scratch
Contest (2014)
MIT Education Council Interviewer (2011- 2019)

TEACHING

Courses Taught

ECE 590, Affective Computing (S21)
ECE 653, Human-Centered Computing (F19, F20, F21, F22, F23)
ECE 651, Software Engineering (S20)
EGR 101, First-Year Design (F19, F20)
ECE 110, Fundamentals of Electrical Engineering (F17-S22)
EGR 103, Computational Methods (S18)
CEN4721/CAP5100, Human-Computer Interaction (S16)
HCC 8810, Affective Computing (S15)
HCC 8310, Fundamentals of Human Centered Computing, (F13 – F14)
CpSc 1200, Introduction to Information Technology (S13 – F14)
CpSc 881, Creative Learning Technologies (F11)
CpSc 881, Measurement and Evaluation in Human Centered Computing (S12)

New Course Development

PSY 232, Art and Science of What “Works” in Life
RACESOC 397/795, Bass Connections Race & Society
ECE 590, Human-Centered Computing
HCC 8810, Affective Computing
CpSc 881, Creative Learning Technologies
CpSc 881, Measurement and Evaluation in Human Centered Computing

ENTREPRENEURIAL

Ownership: Co-Founder & Creative Director, DEEP Designs (2017-Present)
Co-Founder, g8four (2008-2011)

Consulting: Project Manager, Center for Inclusive Computing, Northeastern University (2022-)
Technical Advisor, Center for Inclusive Computing, Northeastern University (2020-2021)
Educational Technology Advisor, JoyLabz (2016-2020)
Physiological Metrics Consultant, CAST (2013-2014)
Maker Faire Consultant, New York Hall of Science (2012)

MEMBERSHIPS

Member, ACM SIG- Computer Science Education
Member, Association for Computing Machinery
Member, American Association for the Advancement of Science
Member, American Society for Engineering Education

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