Cheryl A. Swanier, PhD
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EDUCATION

Ph.D., Computer Science - Summa Cum Laude   **December 2015**
AUBURN UNIVERSITY   AUBURN, ALABAMA
DISSERTATION TITLE: VIRTUAL ENVIRONMENTS FOR EDUCATION: AN EMPIRICAL STUDY OF IMPLEMENTING EDUCATION INTO 3D VIDEO GAMES AND APPLICATIONS
ADVISOR: DR. CHERYL D. SEALS

Ed.D., Higher Education Administration   - Summa Cum Laude   **May 2004**
AUBURN UNIVERSITY   AUBURN, ALABAMA
DISSERTATION TITLE: COLLEGE DEANS' BELIEFS ABOUT TEACHING AND LEARNING
ADVISOR: DR. MARAGARET ROSS

MDiv. Theology – Cum Laude   **May 2017**
EMORY UNIVERSITY   ATLANTA, GEORGIA

M.Ed., Mathematics Education – Summa Cum Laude   **May 2005**
COLUMBUS STATE UNIVERSITY   COLUMBUS, GEORGIA

M.S., Computer Science – Cum Laude   **December 1994**
STATE UNIVERSITY OF NEW YORK   BINGHAMTON, NEW YORK
THESIS TITLE: TOWARDS A MULTIMEDIA COLLEGE RECRUITING PROGRAM
ADVISOR: DR. LESLIE LANDER

B.S., Computer Science – Magna Cum Laude   **June 1986**
ALBANY STATE UNIVERSITY   ALBANY, GEORGIA

CERTIFICATIONS

HERS Leadership Institute   **June 2024**
Women Leadership Institute – University of Pennsylvania   Philadelphia, PA

Post-Graduate Certificate in Executive Leadership   **November 2018**
Executive Leadership Summit – Hampton University   Hampton, Virginia

Post-Graduate Certificate in Accreditation Leadership   **January 2018**
ABET IDEAL INSTITUTE   NEW ORLEANS, LOUISIANA

Post-Graduate Certificate in Academic Leadership   **May 2016**
THE CHICAGO SCHOOL OF PROFESSIONAL PSYCHOLOGY   WASHINGTON, DC

Educational Leadership Certification   **August 2007**
AUBURN UNIVERSITY   AUBURN, ALABAMA

AP Calculus Certification   **June 2004**
UNIVERSITY OF GEORGIA   ATHENS, GEORGIA

Teacher Certification (L-7)   **May 2002**
COLUMBUS STATE UNIVERSITY   COLUMBUS, GEORGIA

EXPERIENCE

Dean, School of Science, Technology, Health and Human Services   09/24 – Present
Full Professor
VOORHEES UNIVERSITY   DENMARK, SOUTH CAROLINA

Charged with providing the visionary leadership needed for the school to excel and to advance the University's teaching, research and service missions. Provide academic, programmatic, managerial, and fiscal responsibilities for the school. Verify the adequacy of instruction, monitor academic integrity, confer degrees, and responsible for student recruitment, admission, and academic progress.

Lead the campus-wide partnership effort to ensure that the curriculum and experiential opportunities in the school are aligned with the best practices in guided career pathways so that during their matriculation, students will have direct career mapping leading to graduate/professional studies and lucrative employment in the major field of study. Additionally, lead the departmental effort in establishing, implementing, and assessing the recruitment/retention plan for all academic programs.

Senior Teaching Professor   **01/21 – 09/24**
UNIVERSITY OF MASSACHUSETTS AMHERST   AMHERST, MASSACHUSETTS

Teach computer concepts and information processing to students which includes an overview of computer hardware, software, basic networking concepts, history of data processing systems, database management, data structures, operating systems, theory of computation, computer organization and architecture, informatics, human computer interaction, and major trends in information systems.

Provide mentoring to undergraduate students. Facilitate presentations to provide undergraduates with opportunities to gain information on research experiences, internships and on exploring the graduate experience. Advise the undergraduate chapter of the STARS (Students & Technology in Academia, Research & Service) Computing Corps.

Collaborate with many programs focused on increasing the computing pipeline by getting students interested in STEM disciplines and future technology careers. She also conducts outreach activities to organizations such as Boys & Girls Club, Kewl Girlz Kode, and Girls, Inc.

Led the strategic plan effort for the goal of establishing Manning CICS at UMass Amherst as a community of choice for students, staff and faculty that exemplifies the power of diverse perspectives and mutual respect. Conducted a strategic scan that evaluated the progress our college has made in establishing Manning CICS as a community of choice. Outlined the proposed CICS strategic focus areas and supporting initiatives the college will pursue for the next 3-5 years.

Co-founded Black Women United (BWU) in April 2022. Seeks to increase the advancement of Black women faculty and to drive institutional transformation to create environments where diversity is encouraged and supported. BWU is a peer mentoring network for Black Women Faculty at UMass Amherst and throughout the Pioneer Valley.

Through monthly online and/or face-to-face meetings and annual face-to-face meetings, participants will continue to be provided with mentoring, networking and collaboration opportunities, education, training, resources, and professional support. In addition, Black Women United aspires to serve as a campus resource for new Black faculty, pairing the new employee with a more experience Black faculty member. Faculty participants identify barriers specific to their professional advancement. Faculty will develop and pursue a strategic plan to address these obstacles and advance their careers.

BWU aims to develop Black Women faculty and has the potential to establish the critical mass needed to engender institutional transformation by developing Black women leaders among the faculty and enabling the university to improve sociocultural environments and remove institutional obstacles to advancement for diverse faculty.

Associate Professor (Tenured)   **07/19 – 05/2021**
CLAFLIN UNIVERSITY   ORANGEBURG, SOUTH CAROLINA

Taught computer concepts and information processing to students which includes an overview of computer hardware, software, basic networking concepts, history of data processing systems, database management, data structures, operating systems, theory of computation, computer organization and architecture and major trends in information systems.

Provided mentoring to undergraduate students. Facilitate presentations to provide undergraduates with opportunities to gain information on research experiences, internships and on exploring the graduate experience. Advise the undergraduate chapter of the FVSU Association of Computing Machinery (ACM). Chaired the annual Research Day Program, which showcases the research of faculty and students.

Collaborated with many programs focused on increasing the computing pipeline by getting students interested in STEM disciplines and future technology careers. She also conducts outreach activities to organizations such as Girls, Inc., Boys & Girls Club, and Kewl Girlz Kode. in a concerted effort to broaden participation in computing for underrepresented minorities and girls. These workshops include teaching girls from K-12 how to learn visual programming languages, develop websites, and program robots. Conducts research in areas of HCI, Virtual Environments and Visual Programming.

Endowed Professor & Chair (Tenured)   **08/16 – 06/19**
CLAFLIN UNIVERSITY   ORANGEBURG, SOUTH CAROLINA

Provided leadership and oversight of the Mathematics and Computer Science Department. Obtained ABET accreditation for computer science program October 2017. Brought innovative technology programs to the university and developed partnerships with industry.

Visiting Research Scientist   **06/17– 07/17**
GOOGLE, INC.   MOUNTAIN VIEW, CA

Developed curriculum for HBCUs to assist in the preparation of computing students for the tech industry in Silicon Valley.

Associate Professor (Tenured)   **08/08 – 05/16**
FORT VALLEY STATE UNIVERSITY   FORT VALLEY, GEORGIA

Taught computer concepts and information processing to students which includes an overview of computer hardware, software, basic networking concepts, history of data processing systems, database management, data structures, operating systems and major trends in information systems. Provide an introduction to the most common software and microcomputers, which included "hands-on" use of microcomputers and some of the major commercial software in addition to teaching Java and C++.

Advised the student chapter of the Association of Computing Machinery. Work with outreach initiatives to improve computer science education at all levels. One of these initiatives is the ARTSI Alliance, Advancing Robotics, Technology for Societal Impact. Established the first robotics lab at Fort Valley State University. The robotics programming is implemented in Tekkotsu, a robotics application framework. Another initiative is the STARS (Students & Technology in Academia, Research & Service) Alliance a regional partnership among academia, industry, K-12 and the community to strengthen local BPC programs by focusing on K-12 outreach, community service, student   leadership   and   computing   diversity   research.

Provided mentoring to undergraduate students. Facilitate presentations to provide undergraduates with opportunities to gain information on research experiences, internships and on exploring the graduate experience. Advise the undergraduate chapter of the FVSU Association of Computing Machinery (ACM). Chaired the annual Research Day Program, which showcases the research of faculty and students.

Collaborated with many programs focused on increasing the computing pipeline by getting students interested in STEM disciplines and future technology careers. She also conducts outreach activities to organizations such as Girls, Inc., Delta Sigma Theta Sorority, Inc. Delta Academy and Delta GEMS, and Links, Inc. in a concerted effort to broaden participation in computing for underrepresented minorities and girls. These workshops include teaching girls from K-12 how to learn visual programming languages, develop websites, and program robots. Conducts research in areas of HCI, Virtual Environments and Visual Programming.

COURSES TAUGHT

- COMPSCI 110 – FOUNDATIONS OF PROGRAMMING (PYTHON) (UMass Amherst)
- COMPSCI 187 – PROGRAMMING WITH DATA STRUCTIONS (JAVA) (UMass Amherst)
- COMPSCI 121 – INTRO TO PROBLEM SOLVING WITH COMPUTERS (JAVA) (Umass Amherst)
- INFO 101 – INTRO TO INFORMATICS (PYTHON/HTML/CSS) (UMass Amherst)
- COMPSCI 325 – INTRO TO HUMAN COMPUTER INTERACTION (UMass Amherst)

- COMPSCI 220 – PROGRAMMING METHODOLOGY (UMass Amherst)

- COMPUTER ORG AND COMPUTER ARCHITECTURE – CSCI 239 – Claflin
- INTRO TO PROGRAMMING (JAVA) – CSCI 206 Claflin
- INTRO TO OBJECT ORIENTED PROGRAMMING (JAVA) – CSCI 207 Claflin
- COMPUTER ORGANSSEMBLY LANG - CSCI-3351-01 1 Claflin
- CONTEMP PROGRAMMING - CSCI-2330-01 1 Claflin
- CSCI and CSIS: AN OVERVIEW - CSCI-1102-01 Claflin
- DATABASE SYSTEMS - CSIS-4720-01 1(FVSU)
- INTRO TO COMPUTERS - CSCI-1153-04 (FVSU)
- BUS APPL SOFTWARE - CSIS-3740-01 (FVSU)
- SPECIAL TOPICS IN CSCI/CSIS - CSCI-4999-01 (Introduction to Robotics) (FVSU)
- SPECIAL TOPICS IN CSCI/CSIS – CSCI-4999-01 (The Road to the PhD) (FVSU)
- PRIN OF PROGRAM II - CSCI-1302-01 (FVSU)
- PRIN OPERATING SYSTEM - CSCI-4340-01 (FVSU)
- DATA STRUCTURES – CSCI 3410-01 (FVSU)
- COLLEGE ALGEBRA MATH 1111-03 (FVSU)
- COLLEGE ALGEBRA MATH 1111L-53 (FVSU)
- INTRO TO UNVI (ORI) FVSU 100-WH2 (FVSU)
- FOUNDATIONS OF COMPUTING – CSCI 337 (FVSU)
- SENIOR SEMINAR – CSCI 491/CSCI 492 (FVSU)
- HNTH SENIOR SEMINAR – CSCI H491 (FVSU)
- INTRO TO COMPUTER TECHNOLOGY – CSCI 101 (FVSU)
- INTRO TO DIGITAL LOGIC – CSCI 225 (FVSU)

PUBLICATIONS

Podcast
Swanier, C. (2023). Glass Ceilings and The Power of the Pivot. Empower @ PROS
<<Interface>>. https://pros.com/learn/interface-podcast . July 14, 2023.

Video(s)
Swanier, C. et. al (2021). 2021 STEM For All Video Showcase on Covid, Equity and Social
Justice. May 11-18, 2021 (virtual). https://youtu.be/coguh90fxOc

Book(s)
(In Progress)
Swanier, C. et. al (2020). HERstory: Untold Stories of Black Women PhDs in Computing.

Book Chapter

Swanier, C. et. al (2022). *The Black Student's Pathway to Graduate Study and Beyond: The
Making of a Scholar. Chapter 21: Networking. Information Age Publishing (IAP).*

Swanier, C. et. al (2018). *IMPACT of Women of Color in STEM at Minority Serving
Institutions - Part II – The Path to Senior Leadership Positions: Keep Your Eyes on the
Prize.* The Chicago School of Professional Psychology.

Journal Articles

- *(Conference Submission to SIGCSE)*
  Black, J, Bobb, K., Browne, A., Conrad, P., Lewis, C. Swanier, C., & Tejada, S. *Demistifying Language about Students' Varied Identities, Minneapolis, MN. February 19, 2019.*

- *(Poster Submissision to IEEE)*
  Swanier, C. (2018). *DATA Protection for Healthcare. New York, NY. June 5-6, 2018.*

- (*Submitted for Publication (Respect Conference Fall 2017 – Accepted as Poster)*
  Swanier, C., Seals, C.D. **What will Computing Look Like in the 21ˢᵗ Century?** RESPECT Conference 2018.

- Swanier, C., Seals, C., Bassy, R. (2016). **Virtual Environments for Education: An Empirical Study of Implementing Education into 3D Video Games and Applications**, EdMedia Conference 2016 on CD, 8 pg. Vancouver BC.

- Swanier, C. Seals, C. Nyagwencha, J. (2012).**Video Games: Who really plays them and how can they be used in education?** *World Conference on Educational Multimedia, Hypermedia and Telecommunications (EDMEDIA) 2012:1 ,*Jun 26, 2012.

- Nyagwencha, J., Cook, T., Machage, B., Swanier, C. and Seals, C. (2012). **Supporting Informal Learning Using a Cloud Tool: An Empirical Usability Study.** *World Conference on Educational Multimedia, Hypermedia and Telecommunications (EDMEDIA) 2012:1 ,*Jun 26,

- 2012.Swanier, C. (2011). **"Edutainment: Video Games Can Impact Education."** FVSU Research Report, 17.

- Seals, D., Swanier, C., and Nyagwencha, J. (2011). **Creating New Mathematical Applications Utilizing Smart Table.** March-May 2011. *Journal on School Educational Technology*, Vol. 6, No.4, pp. 1-6.

- Swanier, C., Seals, C.D., Hull, E., & Thorpe, J. (2010). **Implementing Education into 3D Video Game and Applications.** Journal of Educational Technology.

- Swanier, C., Seals, C.D., Billionaire, E. (2009). **Visual Programming: A Programming Tool for Increasing Mathematics Achievement.** July - Sept'09, Journal of Educational Technology, Vol.6 No. 2. pp. 1-5.

- Gilbert, J.E., Eugene, Swanier, C., W., Arbuthnot, K., Hood, S., Grant, M.M., & West, M.L. (2009). **Culturally Relevant Game Design: A Case Study for Designing Interactive Algebra Lessons for Urban Youth**. *Journal of Educational Technology*.

- Gilbert, J. E., & Swanier, C. A. (2008). **Learning styles: How do they fluctuate?** *Institute for Learning Styles Journal*, 1, 29-40.

Dissertation: Virtual Environments for Education: An Empirical Study of Implementing Education into 3D Video Games and Applications
- **Committee:**
  Dr. Cheryl A. Seals, Department of Computer Science and Software Engineering (advisor)

Dr. Sanjeev Baskiyar, Department of Computer Science and Software Engineering
Dr. L. Octavia Tripp, Department of Curriulum and Teaching
Dr. Melody Russell, Department of Curriculum and Teaching (outside reader)

- **Dissertation:** College Deans' Beliefs About Teaching and Learning.
  Committee:
  Dr. Margaret E. Ross, Department of Education, Foundation, Leadership, and Technology
  (advisor)
  Dr. Francis Kochan, Interim Dean of College of Education, (co-advisor)
  Dr. Paris Strom, Department of Education, Foundations, Leadership, and Technology
  Dr. Evelyn Creighton, Department of Food Nutrition (outside reader)

  Thesis: Towards A Multimedia College Recruiting Program
  Committee:
  Dr. Leslie Landers, Department of Computer Science (advisor)

Presentations

- (Invited Talk)

  Swanier, C. (2024). National Society of Black Engineers 50th National Convention. Academic and Research Leadership Symposium (ARLS). **Networking to Support STEM.** Georgia World Congress Center. Atlanta, Georgia. March 21, 2024.

- (Invited Talk/Panelist)

  Swanier, C. (2023). New Faculty Orientation Program. Office of Faculty Development. University of Massachusetts, Amherst, MA. **Navigating Your First Year: Advice from Colleagues.** Marriott Center. August 29, 2023.

- (Workshop Presenter)

  Swanier, C. (2023). AI Seminar. Voorhees University. Denmark, South Carolina. **What is AI?** Virtual – Zoom. July 12-13, 2023.

- (Invited Talk/Panelist)

  Swanier, C. (2023). Berkshire12 Teaching with Technology Conference. Berkshire, MA. **Technology for Social Good.** Virtual – Zoom. May 30, 2023.

- (Invited Talk/Panelist)

  Swanier, C. (2023). Berkshire12 Teaching with Technology Conference. Berkshire, MA. **Technology for Social Good.** Virtual – Zoom. May 30, 2023.

- (Invited Talk/Panelist)

  Swanier, C. (2022). Computer Science Teacher Association (CSTA) New England Regional Conference. Amherst, MA. **Changing the Face of Technology for the Common Good.** November 12, 2022. URL: https://westernmass.csteachers.org/events/csta-new-england-regional-conference/

- (Conference Presenter/Panelist)

Swanier, C. (2022). Grace Hopper Celebration. **Increasing Participation of Diverse Students in Graduate School**. Orlando, FL. September 23, 2022.

- (Conference Presenter/Panelist)
Swanier, C. (2022). STARS Celebration. **Getting to Your Finish Line: Tips and Resources to Help You Meet Your Education and Career Goals**. Houston, TX. September 10, 2022.

- (Conference Presenter)
Swanier, C. (2022). Grace Hopper Celebration. **Your Voice…Your Power**. Washington, DC. September 9, 2022.

- (Invited Talk/Panelist)
Swanier, C. (2022). NCWIT Virtual Webinar. *Faculty Hiring: Promoting Diversity, Equity, and Inclusion from Job Description to Offer*. Virtual – Zoom. February 2, 2022.

- (Invited Talk/Panelist)
Swanier, C. (2022). UMass Inaugural Black Excellence Dinner. UMass Amherst. February 26, 2022.

- (Invited Talk/Panelist)
Swanier, C. (2022). SREB Webinar. *Starting a Grant-Funded Community Initiative*. Virtual – Zoom. February 1, 2022.

- (Conference Presenter)
Swanier, C. (2022). Grace Hopper Celebration. **Dare to Own the Power of Your Voice**. Virtual – Zoom (On Demand). September 27 – October 1, 2021.

- (Workshop Presenter)
Swanier, C. (2021). STEM Workshop. *Code With Us*. Auburn University. Auburn, AL. July 31, 2021.

- (Workshop Presenter)
Swanier, C. (2021). STEM Workshop. *Code With Us*. Boys & Girls Club. Long Leaf Middle School. Columbia, SC. May 17 -28, 2021.

- (Invited Talk/Panelist)
Swanier, C. (2021). UMass Amherst. *Massenburg Institute: Empow(H)er Panel*. Virtual – Zoom. March 4, 2021.

- (Invited Talk)
Swanier, C. (2021). UMass Amherst. *Massenburg Institute: (Our)Story – Lunch Time Discussions*. Virtual – Zoom. February 24, 2021.

- (Invited Talk)
Swanier, C. (2021). Black Women in STEM 2.0 Virtual Presentation: Panelist. *Future of Black Women in STEM*. Virtual – Zoom. January 6, 2021.

- (Invited Talk)

  Swanier, C. (2020). SOUTHBDHUB Virtual Presentation: Featured Presenter. The Data Science Education & Workforce Working Group. **How Secure Is Your Data**. Virtual – Zoom. November 6, 2020.

- (Invited Talk)

  Swanier, C. (2020). NCWIT Virtual Presentation: Featured Presenter. The Color of Our Future: Promising Practices and Next Steps. **Conversations for Change**. Virtual – Zoom. May 15, 2020.

- (Invited Talk)

  Swanier, C. (2020). The NCWIT Summit. Detroit, MI. **Untold Stories of Black Women PhDs in Computing**. Detroit, Michigan. May 18-20, 2020.

- (Invited Online Talk)

  Swanier, C. (2020). NCWIT (National Center for Women Information Technology). **The Color of Our Future: Black Women in Postsecondary Computing Education**. February 27, 2020.

- (Invited Talk)

  Swanier, C. (2019). Black computeHER Conference. Washington, DC. **Untold Stories of Black Women PhDs in Computing**. Washington, DC. April 5, 2019.

- (Invited Talk)

  Swanier, C. (2018). The Ohio State University. Columbus, OH. **Women in Computing**. September 7, 2018. (Conference Presenter)

  Swanier, C. (2018). Richard Tapia Celebration of Diversity in Computing Conference. **Untold Stories of Black Women PhDs in Computing**. Orlando, Florida. September 21, 2018.

- (Conference Presenter)

  Swanier, C. (2018). Grace Hopper Celebration. **Climbing the Professional Ladder: A Diverse Perspective**. Houston, TX. September 28, 2018.

- (Conference Presenter)

  Swanier, C. (2018). Black Data Processing Association (BDPA) & National Society of Blacks in Computing (NSBC) Conference. **Writing Successful Grant Proposals**. New Orleans, LA. August 11, 2018.

- (Conference Presenter)

  Swanier, C. (2018). Black Data Processing Association (BDPA) & National Society of Blacks in Computing (NSBC) Conference. **Publish and Flourish**. New Orleans, LA. August 10, 2018.

- (Invited Talk)

  Swanier, C. (2018). NSF HBCU Panelist. Washington, DC. March 12, 2018.

- (Conference Presenter)

  Swanier, C. (2017). Richard Tapia Celebration of Diversity in Computing Conference. **Managing Career Transitions.** Atlanta, GA. September 20-23, 2017.

- (Conference Presenter)

Swanier, C. (2016). Grace Hopper Celebration. **Career Transitions.** Houston, TX. October 2016.

- (Invited Talk)
  Swanier, C. (2016). **The Role of HBCUs in Cyber Security.** SC Cyber Security Syposium. Orangeburg, SC. October 2016.

- (Invited Talk).
  Swanier, C. (2014). **STEM Workshop**. Emerging Leaders and STEM Teen Summit. Kendrick High School, Columbus, GA. March 22, 2014.

- (Invited Talk).
  Swanier, C. (2014). **College Prep and STEM Workshop**. Girls, Inc., Baker Center. Columbus, GA. February 20, 2014.

- (Invited Talk)
  Swanier, C. (2013). **Women in Leadership Roles**. Georgia College, Milledgeville, GA. January 7, 2014.

- (Invited Talk).
  Swanier, C. (2013). **Change Leader.** NCWIT Pacesetters Roundtable. Boulder, CO. November 8, 2013.

- (Invited Talk).
  Swanier, C. (2013). **College Prep and STEM Workshop**. Girls, Inc., Cobb Center. Columbus, GA. December 5, 2013.

- (Invited Talk).
  Swanier, C. (2013). **Changing the Face of Technology.** FVSU Freshmen Orientation Class. Fort Valley State University, Fort Valley, GA. Fall 2013.

- (Invited Talk)
  Swanier, C. (2013). **Graduate School**. 2013 STARS Celebration. Atlanta, GA. August 16, 2013.

- (Invited Talk)
  Swanier, C. (2013). **Undergraduate Research Mentoring**. NCWIT Summit. Tucson, AZ. May 21, 2013.

  (Workshop Presenter)
  Swanier, C. (2013). **Programming in Scratch**. FVSU ACM Youth Summit. Fort Valley State University, Fort Valley, GA. June 26, 2013.

- (Conference Paper)
  Swanier, C. (2011). **Video Games: Who really plays them and how can they be used in education?** *FVSU 2nd Annual Research Day, "Scholarship in Action."* Fort Valley State University. April 12, 2012.

- (Workshop Presenter)
  Swanier, C. (2011). **Changing the Face of Technology**. 2011 FVSU ACM Workshop for

Middle School Girls, Fort Valley, Georgia, November 4 & 7, 2011.

- (Session Presenter)
  Swanier, C. (2010). **Critiquing and Designing Research Posters.** 2011 STARS Conference, Raleigh, North Carolina, August 6-11, 2011.

- (Juried Paper Presentations)
  68th Joint Annual Meeting of Beta Kappa Chi Scientific Honor Society & The National Institute of Science. Atlanta, GA, March 23-27, 2011.

- (Conference Paper)
  Swanier, C. (2011). *Virtual Learning Environments in Education.* ARTSI Student Research Conference. March 17-19, 2011.

- (Workshop Presenter)
  Swanier, C. (2011). *Computers Merit Badge Workshop.* Georgia Chapter of ACM, Warner Robins, Georgia. Spring, 2011.

- (Workshop Presenter)
  Swanier, C. (2011). *Computers Merit Badge Workshop.* Georgia Chapter of ACM, Warner Robins, Georgia. Fall, 2011.

- (Invited Talk)
  Swanier, C. (2010). *Women in Information Technology.* Girls Inc. Columbus, Georgia, September 28, 2010.

- (Invited Talk)
  Swanier, C. (2012). *Information Technology.* Girls Inc. Columbus, Georgia, Spring 2012.

- (Workshop Presenter)
  Swanier, C. (2010). **ARG (Affinity Research Group Model.** 2010 STARS Conference, Orlando, Florida, August 6-11, 2010.

- (Workshop Panelist)
  Swanier, C. (2010). **Balancing Teaching, Research, Service, Work, Life, Health and Wellness.** 2010 ADMI/A4RC (African American Researchers in Computing Sciences), Jackson, Mississippi, April 8-10, 2010.

- (Workshop Poster Presenter)
  Swanier, C. (2008). **An Exploratory Study of Learning Styles in Technology.**
  2009 Richard E. Tapia Conference, Portland, Oregon, April 1-4, 2009.

- (Workshop Panelist)
  Swanier, C. (2009). **Balancing Life and Research.**
  2009 African American Researchers in Computing Sciences, Seattle, Washington, July 16-19, 2009.

- (Workshop Panelist)
  Swanier, C. (2008). **Gaining Insight Into The Publication Disparity.**

2009 Richard E. Tapia Conference, Portland, Oregon, April 1-4, 2009.

- (Workshop Poster Presenter)
  Swanier, C. (2008). **Learning Styles: How do they fluctuate?** 2008 Grace Hopper
      Celebration of Women in Computing, Keystone, Colorado, October 1-4, 2008.

FUNDING
- Swanier, C. MSiPP. 9/2024. $1.1M. Voorhees University – Denmark, SC.
- Swanier, C. **NSF ADVANCE Program: EPiC Award – Black Women United**. 5/2024. $500. University of Massachusetts – Amherst.
- Swanier, C. Co-PI. **NSF ADVANCE Program: Mutual Mentoring Award – Black Women United**. 5/2023 – 5/2024. $6000. University of Massachusetts – Amherst.
- Swanier, C. Co-PI. **NSF ADVANCE Program: Mutual Mentoring Award – Black Women United**. 5/2022 – 5/2023. $6000. University of Massachusetts – Amherst.
- Swanier, C. Senior Personnel. **NSF S-STEM: Boosting Access to Data Science Scholars (Award Number:2130070)**. December 2021. $1,500,000.00.
- Swanier, C. **Bob Belle Service Grant Award.** February 2021. $3,000.00.

- Swanier, C. Senior Personnel. **NSF ADVANCE: ASCEND Grant (1936070/ 2128203)**: $999,899.00 5/19 – 5/2022.
- Swanier, C. **Facebook** – Endowed Scholarship $25,000.00
- Swanier, C. **LS SCAMP. Louis Stokes South Carolina for Minority Participation**. 5/17-5/19. $52,000.00
- Gosha, K. and Swanier, C. National Science Foundation. Spring 2018. **NSF INCLUDES Grant**. CS Outreach Planning Meeting for HBCU (submitted).
- Swanier, C. **Google igniteCS Award.** February 2017. $6,548.00.
- Swanier, C. **NCWIT Seed Fund Award**. May 2017. $10,000.00.
- Swanier, C. AT&T Undergraduate Research Mentoring Award. May 2017. $5,000.00
- Swanier, C. Sub-Awardee. **NSF BPC-A: Institute for African American Mentoring in Computing Sciences (iAAMCS)**, NSF, 5/1/2012 – 4/30/2015. $24,500.
- Swanier, C. Sub-Awardee. **NSF BPC-A: The STARS Alliance: A Southeastern Partnership for Diverse Participation in Computing**, NSF, 8/1/2011 – 12/1/2019, $70,000.00.
- Swanier, C. Sub-Awardee. **NSF BPC-DP: African- American Researchers in Computing Sciences (AARCS)**, NSF, 8/1/2009 – 3/1/2010, $421,288, FVSU Share: $10,000.

GRANTS REVIEWED
- **Proposal Reviewer**. Department of Education (2024, July 24 – August 16). GAANN (Graduate Assistant in Areas of National Need) Grant Competition.
- **Scholarship Application Reviewer**. TAPIA Conference. (2024, March 1 – March 21).
- **Proposal Reviewer**. National Science Foundation (2023, May 31-June 1).
- **Proposal Reviewer**. National Science Foundation (2022, June 13-14).
- **Fellowship Application Reviewer**. (National Defense Science and Engineering Graduate) NDSEG (2021, December 9 – January 31, 2022).
- **Proposal Reviewer**. National Science Foundation (2020, June 25-26).
- **Proposal Reviewer**. National Science Foundation (2019, December 16-17, 2019).
- **Fellowship Application Reviewer**. (National Defense Science and Engineering Graduate) NDSEG (2019, January 11 – 2019, February 11).
- **Proposal Reviewer**. Department of Education (2018, September 7 – 14). GAANN (Graduate Assistant in Areas of National Need) Grant Competition.

- **Proposal Reviewer**. National Science Foundation (2018, Feb. 27 thru March 20).
- National Science Foundation (2018, June 7-8). Broadening Participation in Computing Visioning Workshop. Alexandria, VA.
- National Science Foundation (2018, March 11-13). **Panelist**. CISE/HER Broadening Participation and Education in Computing PI & Community Meeting.
- **Proposal Reviewer**. Department of Education (2015, June 10 – July 22). GAANN (Graduate Assistant in Areas of National Need) Grant Competition.

COMPUTER SKILLS

Application Programming, System Installation, Monitoring, and Coordination, Local Area Networks, Software Implementation and Documentation

COURSES:
Programming Languages, User Interface Design, Software Process, Automata Theory, Database Management, Operating Systems, Human Computer Interaction, Computer Organization and Architecture, Introduction to Programming, Introduction to Object Oriented Programming, Introduction to Logic Design

SOFTWARE:
Programming Languages, User Interface Design, Software Process, Automata Theory, Database Management, Operating Systems, FrontPage

HARDWARE:
IBM, IBM compatibles, Macintosh's PCs

LANGUAGES:
C/C++, HTML, Pascal, COBOL, Assembler, PHP, JAVA, Python.

NATIONAL COMMITTEES SERVED

College Board – AP CS Development Committee	2022- Present
ACM SIGCSE Panels/Special Sessions Co-Chair	2024-25
ACM SIGCSE Associate Program Chair (APC) Papers	2023-24
ABET PEV	2018 - Present
ACM SIGCSE Workshop Co-chair	2021 - 2023
WAAW 2.0 - Board of Directors	2021 - Present
NCWIT – Advancement of Black Women and Girls in Computing	2020 - Present
Delta Sigma Theta Sorority, Inc. Leadership Academy	2017-2019
NCWIT Steering Committee – Academic Alliance	2016-Present
NCWIT Steering Committee – Pacesetters	2016-Present
GHC (Grace Hopper Celebration) Faculty Track	2015-Present
STARS Steering Committee – Faculty Liaison	2015-Present
American Red Cross Minority Recruit Board Co-Chair	2009-2013

HONORS

Girls Inc Board Member	2023 - Present
NSF ADVANCE EPiC Award	2024
NSBE Academic and Research Leadership Symposium (ARLS) Award	2024
The Mellon Faculty Leadership Development Program	2023-24

College Board - AP CS Development Committee	2023-Present
College Board - AP CS National Advisory Board	2023-Present
UMASS Office of Faculty Development Advisory Board	2023-Present
UMass TIDE Ambassadors Fellow	2023-24
UMass Mutual Mentoring Grant	2022-Present
UMass Black Women United Co-Founder	2022-Present
WAAW (Working to Advance African Women) Board Member	2022-Present
ACM Senior Member	2022-Present
UMass STRIDE Faculty Fellow	2021-Present
ACM Senior Member	2022
NCWIT – Featured in re:THINK Magazine (Inaugural Issue)	2021
Claflin University Faculty Spotlight	2020
Black computeHER Grand Dame Nominee	2020
Grace Hopper Scholar	2019
Claflin University Office of Sponsored Programs Grantsmanship	2019
Claflin University Office of Sponsored Programs Grantsmanship	2018
Claflin University Office of Sponsored Programs Grantsmanship	2017
Google igniteCS Award $6548	2017
NCWIT Seed Fund Award $10000	2017
Henry N. and Alice Carson Endowed Professorship	2016 - Present
Society of STEM Women of Color Founding Member Award	2015
NSF OURS Academic Leadership Award	2015 - 2016
Emory University Dean's Award	2016
Emory University Dean's Award	2015
Emory University Dean's Award	2014
Girls Inc. STEM Advocacy Award	2014
Delta Sigma Theta Sorority Social Action Trailblazer Award	2014
Ebony's Magazine Power 100	2013
White House Champion of Change for Tech Inclusion	2013
NCWIT Undergraduate Research Mentoring Award	2013
AT&T $5000 Undergraduate Research Mentoring Award	2013
STARS Outstanding Faculty Liaison Award	2013
STARS Commitment and Dedication to the Mission Award	2013
Enhancing Critical Thinking Award	2013
FVSU Research Day Commendation Award	2013
Girls Inc. Special Recognition Award	2012
FVSU Research Day Award	2012
Enhancing Critical Thinking Award	2012
FVSU Office of Sponsored Programs Grantsmanship	2012
FVSU Office of Sponsored Programs Grantsmanship	2011
FVSU Office of Sponsored Programs Grantsmanship	2010

PROFESSIONAL DEVELOPMENT ACTIVITIES

ACM Senior Member	2022-Present
SIGCSE (Special Interest Group for Compupter Science Educ.)	2021-Present
ABET CAC (Computing Accreditation Commission)	2018-Present
National Society of Black Engineers (NSBE)	2018-Present
Auburn University Alumni Association	2011-Present
AAUP (American Association of University Professors)	2010-
PresentSTEM Women of Color	2010-Present
American Red Cross Minority Recruit Board Co-Chair	2009-2013

ACM (Association of Computing Machinery)	2008-Present
NCTM (National Council of Teachers of Mathematics)	2007-Present
BDPA (Black Data Processing Association)	2004
Phi Delta Kappa	2004
Theta Alpha Chi	2004
CCTM (Chattahoochee Council for Teachers of Mathematics)	2001-Present
Professional Association of Georgia Educators	2001-Present
Delta Sigma Theta Sorority, Inc.	1984-Present
Alpha Kappa Mu Honor Society	1984
Albany State University Alumni Association	1993
Endicott Chapter of Toastmaster's International	1989-93
Urban League of Broome County, New York	1993
Martin Luther King Commission of Broome County, New York	1993
Senior Class President of Brooks County High School	1981-82