RESEARCH STATEMENT
My research interest is in Modeling and Simulation with a particular interest in Dynamic Data Driven Application Systems (DDDAS). My main focus is conducting research pertaining to power consumption and DDDAS applications; the aim is to design power aware algorithms that distribute data that is used to drive DDDAS applications.

Keywords: Power, Mobile Computing, Dynamic Data Driven Application Systems,

EDUCATION
Georgia Institute of Technology – Atlanta, GA
PhD, College of Computing: School of Computational Science and Engineering, Expected Graduation Date May 2018
Advisor: Richard Fujimoto

North Carolina Agricultural and Technical State University - Greensboro, NC
B.S., Computer Science, Summa Cum Laude May 2013

RESEARCH EXPERIENCE
Georgia Institute of Technology – College of Computing: School of Computational Science and Engineering
Graduate Research Assistant (GRA)
(August 2013 to Present)
- Executing research that measures the power consumption of traffic simulators that predict overall throughput time that are ran on mobile devices
- Executed research that measured the power consumption of HLA Data Distribution Management Grid-Based Method during communication
- Presented findings at Georgia Tech Big Data Industry Forum
- Published paper in 2014 ACM PADS conference

U.S. Army Core of Engineers Research and Development Center ITL – Intern
- (May 2015 to July 2015)
  - Developed a technique to combine output from a Army Logistics simulation system in order to understand the time it would take to get through the system as a whole under different conditions and scenarios.

CRUISE Program – Intern
(May 2013 to August 2013)
- Conducted research in the area of crowdsourcing
- Compiled literature that helped to identify how crowd sourced data could be used to drive a Dynamic Data Driven Application System that focuses on transportation system
- Presented findings at CRUISE Symposium

North Carolina Agricultural and Technical State University – Department of Computer Science
Undergraduate Research Assistant (URA)
Conducted research in the area of bioinformatics in the Center for Advanced Studies in Identity Sciences
Developed genetic and evolutionary feature extraction techniques for facial recognition and biometric-based access control protocols.
Developing novel feature extraction/selection techniques in an effort to recognize users of computing devices based on the way they use mouse.
Co-authored three conference publications

U.S. Army Core of Engineers Research and Development Center ITL – Intern

Manipulated existing terrain data to create realistic, computer-generated scenes to improve the ability to sense remote targets of interest

TEACHING EXPERIENCE

Georgia Institute of Technology - Department of Computational Science and Engineering Modeling and Simulation: Fundamentals & Implementation CSE 6730

Assisted students with class material and projects
Graded student quizzes, projects, and exams
(January 2015 – May 2015)

North Carolina Agricultural and Technical State University – Department of Computer Science

Introduction to Computer Programming GEEN 163

Assisted students with lab and homework assignments
Graded student lab and homework assignments
Assisted professor with grading student exams
(August 2012 – May 2013)

Computer Programming Design GEEN165

Assisted students with lab and homework assignments
Graded student lab and homework assignments
Assisted professor with grading student exams
(August 2011 – May 2013)

Data Structures COMP 280

Served as a Teacher’s Assistant for the College of Engineering: Computer Science Department – (September 2011 – May 2013)

Assisted students with homework programming assignments
Graded programming assignments
Instructed weekly help sessions for extra assistance on understanding class material
Graded student programming presentations
(August 2011 – May 2013)

PUBLICATIONS AND PRESENTATIONS


● National Science Foundation Presentation
   Michigan State University
   BEACON Center for the Study of Evolution in Action
   Lansing, MI
   December 2012
   Presentation on Darwinian Feature Extraction

HONORS AND AWARDS

GRADUATE

● Presidential Fellowship (2013-2014) – Georgia Tech College of Computing: School of Computational Science & Engineering

● Science, Mathematics, And Research for Transformation (SMART) Scholarship (Fall 2013 – Present)

UNDERGRADUATE

● Deans List (Fall 2009, Spring 2010, Fall 2010, Spring 2011, Fall 2011, Spring 2012 Fall 2012, Spring 2013)

● Science, Mathematics, And Research for Transformation (SMART) Scholarship (Fall 2010 – Spring 2013)

● National Science Foundation Scholar (NSF) (August 2009-May 2013)

● Dowdy Scholarship (August 2009-May 2013)

CONFERENCES AND WORKSHOPS ATTENDED

● Grace Hopper Celebration of Women in Computing, Houston, TX October 2015


● Principles of Advanced and Discrete Simulation, Denver, CO May 2014

ACTIVITIES

ORGANIZATIONS

● Black Graduate Students Association (2013 – Present)

● Society of Women Engineers (2013 – Present)
National Society of Black Engineers (NSBE) (2009 – Present)
NCA&T Honors Program (2009 – 2013)
The Association for Computing Machinery (ACM) (2009 – 2013)

HONOR SOCIETIES
- Phi Kappa Phi (Spring 2012 – Present)
- Upsilon Pi Epsilon (Computer Science Honor Society) (Spring 2012 – Present)
- Alpha Kappa Mu Honor Society (Fall 2011 – Present)
- Golden Key International Honour Society (Spring 2011 – Spring 2013)
- Alpha Lambda Delta (Freshmen Honor Society) (Spring 2010)

VOLUNTEER SERVICE
- Black Girls Code
- Open Hand Atlanta
- Ghana Trip
- Repair Computers at Handy Capable
- Winter AIDS Walk
- Homeless Shelter Can Collection Drive