

## Education

### **Doctor of Philosophy**

2018 - Present

Human Centered Computing

Clemson University

Dr. Kelly Caine, Advisor

### **Master of Science**

2015-2018

Computer Science

Specialization: Interactive Intelligence

Georgia Institute of Technology

### **Bachelor of Science**

2006-2011

Computer Science

University of Tennessee

## Research Statement

I use mixed methods to study older adults' usage and perceptions of voice user interfaces (VUI). I'm particularly interested in how widely available VUI technologies like smart speakers can be used to enhance the lives of older adults by helping them live happier, more independent lives.

## Awards

National GEM Consortium Fellowship - 2020

Arnold Small Award for Outstanding Student Paper, HFES Technology Group on Aging - 2020

Grad Cohort for Underrepresented Minorities and Persons with Disabilities, Computing Research Association 2020

Graduate International Research Experiences Fellowship - Institute of International Education - 2019

Grad Cohort for Underrepresented Minorities and Persons with Disabilities, Computing Research Association 2019

New Memphis Embark - 2014

EdScholar - University of Tennessee 2006-2010

Valedictorian, Hamilton High School, Memphis Tennessee - 2006

## Publications

Stigall, B., & Caine, K. (2020). A Systematic Review of Human Factors Literature About Voice User Interfaces and Older Adults. *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*.

Huff, E. W., Stigall, B., Brinkley, J., Pak, R., & Caine, K. E. (2020). Can Computer-Generated Speech Have an Age ? *Extended Abstracts of the 2020 CHI Conference on Human Factors in Computing Systems*.

Stigall, B., Waycott, J., Baker, S., & Caine, K. (2019). Older Adults ' Perception and Use of Voice User Interfaces : A Preliminary Review of the Computing Literature. *Proceedings of the 31st Australian Computer-Human Interaction Conference, OzCHI 2019.*

## **Experience**

**Clemson University**, School of Computing, January 15, 2020–Present

Graduate Research Assistant

Conducting research with Dr. Kelly Caine on various projects.

**University of Melbourne (Australia)**, Interaction Design Lab, June 15, 2019-December 15, 2019

Visiting Student Researcher

Conducting research abroad towards PhD. Participating in lab research projects.

Mentored masters students on projects

**Clemson University**, School of Computing, August 15, 2018–May 2019

Graduate Teachers Assistant

Head teachers assistant for multiple labs, mentoring undergraduate Computer Science Students.

Grading of student assignments, proctoring tests.

Courses:

Software Development Foundations CPSC2150 - Spring 2019

Special Topics: Web Programming CPSC4820 - Fall 2018

Programming Methodology CPSC1070/71 - Fall 2018

1 Lecture on Interview Methods, Research Methods in Human Centered Computing HCC8330

**AutoZone Inc.**

Systems Engineer. February 22, 2016 – July 13, 2018

DevOps Team

**Georgia Institute of Technology**, College of Computing, August 17, 2017– December 2017

Teachers Assistant

Mentored 16 Masters Students. Guided and graded projects for mentees

Educational Technology CS6460 - Fall 2017

**International Paper Inc.**

Applications Development Specialist. June 20, 2011 – February 9, 2016

Java, SAP, and Web application development and support.

Mobile application development

**BMW Manufacturing Co., LLC**

IT Research and Development Intern May 24, 2010 – August 13, 2010

Responsible for researching and implementing new technologies for BMW.

**AutoZone**, Memphis Tennessee May 18, 2009 – August 10, 2009  
Software Development Intern  
Z-Net Parts Lookup Program development team.

**AutoZone**, Memphis Tennessee May 19, 2008 – July 31, 2008  
Technology Intern  
Supply Chain department software development.

**HealthSouth**, Memphis Tennessee  
Rehabilitation Technician June 2006 – August 2006  
Physical Therapy assistance

**University of Tennessee Medical School**, Memphis Tennessee  
Non UT Student Assistant June 2005 – August 2005  
Telemedicine technology research team

## **Leadership and Professional Activities**

**Human Factors Ergonomic Society Annual Meeting**, HFES  
October 5 - 9, 2020, Virtual

**CHIMe 2020**, SIGCHI  
April 24, 2020, Virtual

**Grad Cohort for Underrepresented Minorities and Persons with Disabilities**, Computing Research Association  
March 6-7, 2020, Austin, Texas

**31st Australian Conference on Human Computer Interaction (OzCHI 19)**,  
December 3-5, 2019, Perth/Fremantle Western Australia, Australia

**Grad Cohort for Underrepresented Minorities and Persons with Disabilities**, Computing Research Association  
March 22-23, 2019, Waikoloa Village, Hawaii

**Graduate Teaching Assistant Training**, Clemson University  
Lead by Dr. Eliza Gallagher and Dr. Aubrie Pfirman  
August 2018

**EMBARC Program**, New Memphis  
August-November 2014  
Memphis, Tennessee

## **Service**

Peer review, Human Factors Ergonomics Society - 2020

Peer review, SIGCHI , Computer Supported Collaborative Work(CSCW) - 2020

Peer Review, International Journal of Human-Computer Interaction - 2020

Speaking with Reach Memphis High School Students about Computer Science - January 22, 2020  
with National Society of Black Engineers, Memphis and REACH Memphis.  
Participated Remotely from Clemson. Students in Memphis, TN

RoboBus STEM Fair - August 18, 2019  
Harmsworth Hall and Park, Collingwood VIC Australia

Memphis Challenge Interviews - May 8-10, 2019  
Emerge Memphis, Memphis Tennessee

Science Fair Judging at Clemson Elementary - February 13,2019  
Clemson Elementary School, Clemson SC

Martin Luther King Day Volunteering at Clemson Downs - January 21, 2019  
Clemson Downs Retirement Home, Clemson SC

Alpha Phi Alpha Fraternity Incorporated

Life Member

Executive Board Member, Chapter Historian, Memphis Tennessee Chapter - 2015-2017

Youth Leadership Development Institute Committee - 2014-2015

National Society of Black Engineers, Memphis Professionals  
Executive Board Member, Webmaster, 2014-2015