

# Sayde L. King

saydeking.com

(813) 331 5218 @ saydeking@usf.edu

4202 East Fowler Ave, ENB 150, 33620, Tampa, FL

## EDUCATION

---

Present August 2019	<b>Doctor of Philosophy, Computer Science and Engineering</b> University of South Florida, Tampa, FL
May 2019	<b>Bachelor of Science, Computer Science</b>
June 2014	Minor in International Studies University of South Florida, Tampa, FL

## PUBLICATIONS AND TECHNICAL REPORTS

- 
- [1] **S. King** M. Ebraheem, K. Zanna and T. Neal, "Learning a Privacy-Preserving Global Feature Set for Mood Classification Using Smartphone Activity and Sensor Data," in 2020 15th IEEE International Conference on Automatic Face and Gesture Recognition (FG 2020) (FG), Buenos Aires, AR, 2020 pp. 660-664.
  - [2] K. Zanna, **S. King**, T. Neal, and S. Canavan, "Studying the Impact of Mood on Identifying Smartphone Users," arXiv preprint arXiv:1906.11960.

## PRESENTATIONS AND POSTERS

- 
- [1] M. Ebraheem, **S. King**, T. Neal, "Towards a Privacy-Preserving Emergency Detection System via Channel State Information", Accepted Poster at The 1st Annual Nelms Workshop on Women in IoT (WiT) : Leading Through Change Warren B. Nelms Institute for the Connected World, 2020

## TECHNICAL STRENGTHS

---

<b>Computer Languages</b>	C/C++, Python, SQL, TensorFlow, Keras
<b>Software &amp; Tools</b>	WEKA, CLIPS, WireShark, INFOR Lawson, Hadoop V1

## TRAINING

---

<b>AI + X</b>	Deep Learning Bootcamp
<b>CITI Program</b>	Responsible Conduct of Research for Engineers
<b>CITI Program</b>	Social and Behavioral Responsible Conduct of Research
<b>CITI Program</b>	Social/Behavioral Investigators and Key Personnel
<b>Qualitative Training</b>	Interview and Data Analysis

## RESEARCH AND TEACHING EXPERIENCE

---

Present Fall 2020	<b>Machine Learning Club, PATEL HIGH SCHOOL , Tampa, FL</b> <i>Mentor</i> <ul style="list-style-type: none"><li>› Develop lessons and curriculum highlighting core concepts of machine learning for grades 9-12.</li><li>› Establish assessment tools to provide feedback to participating students and aid teaching partners at Patel High.</li></ul>
Present Spring 2020	<b>Cyber Identity and Behavior Research Lab, UNIVERSITY OF SOUTH FLORIDA , Tampa, FL</b> <i>Graduate Research Assistant   Principal Investigator, Dr. Tempestt Neal</i> <ul style="list-style-type: none"><li>› Serve as a member of an interdisciplinary, private-public, study team for NSF-Funded RAPID Grant (Early Detection of Disease Outbreaks using Self-Organizing Patterns - COVID-19).</li><li>› Employ natural language processing, machine learning, and graph technologies to define a new model for tracking disease spread.</li><li>› Create a user-friendly knowledge graph about diseases.</li><li>› Assist in the creation of survey materials and the dissemination of these materials.</li><li>› Engage in interdisciplinary research with Department of Mental Health Law and Policy faculty.</li><li>› Perform qualitative interviews with users of mobile mental health intervention services to understand their experiences.</li><li>› Analyze user perceptions concerning extraction of continuous sensing data for the purpose of improving mental health interventions.</li></ul>

<p>Summer 2020 Fall 2019</p>	<p><b>Department of Computer Science and Engineering, UNIVERSITY OF SOUTH FLORIDA , Tampa, FL</b> <i>Graduate Teaching Assistant</i></p> <ul style="list-style-type: none"> <li>&gt; Assist in preparing instructional material, grading, and assisting students outside of course hours for approximately 75 undergraduate and graduate students in the following courses : <ul style="list-style-type: none"> <li>&gt; COP 4365 - Software Systems Development</li> <li>&gt; CIS 4930/CIS 6930 - Biometric Authentication on Mobile Devices</li> <li>&gt; COT 4210 - Automata Theory and Formal Languages</li> </ul> </li> </ul>
<p>Present August 2018</p>	<p><b>Cyber Identity and Behavior Research Lab, UNIVERSITY OF SOUTH FLORIDA , Tampa, FL</b> <i>Ph.D. Researcher   Principal Investigator, Dr. Tempestt Neal</i></p> <ul style="list-style-type: none"> <li>&gt; Evaluate current state of the art literature on the topics of implicit body gesture, pose, and action recognition and their relation to Computer Vision.</li> <li>&gt; Conduct a longitudinal study aimed to capture multimodal data for gesture and pose recognition, activity recognition, emotion recognition, and collaborative interaction analysis, and pervasive sensing technologies on a four person team.</li> <li>&gt; Evaluate current state of the art literature on the topics of pragmatics, semantic analysis, sentiment analysis, harassment, aggression and cyberbullying, phishing, and scams as portrayed in text across social networks on a two person team to be consolidated into a survey paper for the research community.</li> </ul>
<p>August 2018 June 2018</p>	<p><b>Research Experience for Undergraduates, Department of Computer Science and Engineering, UNIVERSITY OF SOUTH FLORIDA , Tampa, FL</b> <i>Student Volunteer   Principal Investigator, Dr. Miguel Labrador</i></p> <ul style="list-style-type: none"> <li>&gt; Participated in a NSF funded research program focused on ubiquitous computing.</li> <li>&gt; Worked on a three person team to develop an audio-based, indoor localization system.</li> <li>&gt; Performed data collection, collecting 25-minute audio files for 19 different areas in a building.</li> <li>&gt; Implemented classic audio processing techniques, feature extraction, and machine learning algorithms via WEKA.</li> </ul>

## PROFESSIONAL SERVICE

---

### AUXILIARY REVIEWER

- > Workshop on Demographic Variation in the Performance of Biometric Systems at IEEE's Winter Conference on Applications of Computer Vision (WACV 2020)
- > IEEE Transactions on Biometrics, Behavior, and Identity Science (2019, 2020)
- > Challenges and Opportunities for Privacy and Security (in conjunction with IEEE's Computer Vision and Pattern Recognition) (CV-COPS 2019)
- > IEEE International Conference on Biometrics : Theory, Applications, and Systems (BTAS 2019)
- > ACM Computing Surveys (2019)

### CONFERENCE/WORKSHOP COMMITTEES

- > Program Committee, Special Session on Identity for Social Good at the IEEE International Joint Conference on Biometrics (IJCB 2020), Houston, TX
- > Program Committee, First Workshop on Applied Multimodal Affect Recognition (AMAR2020) at the IEEE International Conference on Automatic Face and Gesture Recognition (FG2020), Buenos Aires, Argentina

### INVITED PANELIST/SPEAKER

- > Panelist | National Society of Black Engineers : Women in STEM, October 2020
- > Mentor | Women in Computer Science and Engineering : Peer Mentoring, September 2020
- > Speaker | Women in Computer Science and Engineering : Is Undergraduate Research Worth It?, September 2020
- > Panelist | Tampa Bay STEM Transfer : Bridge to Baccalaureate Alliance, December 2019
- > Panelist | Flit-Path Symposium : Obstacles and Opportunities for Internships, April 2019

## HONORS AND ACHIEVEMENTS

---

April 2020	CRA-WP Grad Cohort for Women Workshop Attendee (Postponed due to COVID-19)
October 2019	26th Annual Institute on Teaching and Mentoring Attendee
2019 - Present	Sloan Scholar, Alfred P. Sloan Foundation's Minority Ph.D. (MPHD) Program
2018 - 2019	NSF Flit-Path Cohort-B Scholarship Recipient
2018 - 2019	James and Michelle Austin Ambassador Scholarship Recipient
2017 - Present	Member of the University of South Florida's Premier Leadership Society, Order of the Golden Brahman
2014 - 2016	Florida Academic Scholar, Florida Bright Futures Scholarship

## WORK EXPERIENCE

---

July 2018 May 2018	<b>Bulls Engineering Youth Experience, UNIVERSITY OF SOUTH FLORIDA , Tampa, FL</b> <i>Mentor</i> <ul style="list-style-type: none"><li>› Taught robotics and engineering concepts to low and middle income middle school students of Hillsborough County.</li><li>› Lead various projects throughout the program and cultivated an environment of growth, humility, and empowerment.</li></ul>
August 2017 May 2017	<b>RPI Consultants, Brandon, FL</b> <i>Systems Analyst</i> <ul style="list-style-type: none"><li>› Completed and presented deliverables including custom program and workflow development, and report development.</li><li>› Researched and troubleshoot in support of Senior Technical Consultants.</li><li>› Produced technical documentation including user guides and test scripts.</li></ul>
May 2017 January 2017	<b>Abacode Cybersecurity Experts, UNIVERSITY OF SOUTH FLORIDA , Tampa, FL</b> <i>Cybersecurity Intern</i> <ul style="list-style-type: none"><li>› Created White Papers for the company that described technical cybersecurity topics in layperson terms for display on the company's website and distribution to clientele.</li><li>› Wrote press releases for upcoming events, breaking news in cybersecurity, and Abacode's milestones.</li></ul>
May 2018 August 2015	<b>Housing and Residential Education, UNIVERSITY OF SOUTH FLORIDA , Tampa, FL</b> <i>Resident Assistant</i> <ul style="list-style-type: none"><li>› Served as a community leader amongst a diverse population to develop a positive living environment.</li><li>› Managed facility concerns as well as planned, facilitated, and evaluated administrative tasks.</li><li>› Mediated conflicts on a floor of 36-42 residents living in shared rooms.</li></ul>
August 2015 June 2015	<b>Northrop Grumman Corporation, DEFENSE MANPOWER DATA CENTER Seaside, CA</b> <i>Technical Services : College Intern</i> <ul style="list-style-type: none"><li>› Collaborated to modify an administrative tool using relational databases on a two person team.</li><li>› Managed multiple assignments including technical write-ups and weekly presentations to clientele.</li></ul>

## AFFILIATIONS AND LEADERSHIP

---

May 2019 May 2016	<b>University of South Florida Ambassador, Tampa, FL</b> <i>Member, Director of Organizational Advancement</i> <ul style="list-style-type: none"><li>› Participated in University and local events as a representative of the student body on behalf of the University President's Office, and the Alumni Association.</li><li>› Fostered relationships between the university's student body of 50,000+ and the university Alumni.</li><li>› Served on the executive board, planned formal Meet and Greets, coordinated and executed the selection process of new members, managed and oversaw Marketing, Communications, Academy, and Assistant Director chair positions.</li></ul>
Present August 2015	<b>National Society of Black Engineers, Tampa, FL</b> <i>Member, Academic Excellence Chair</i> <ul style="list-style-type: none"><li>› Attend general body meetings, participate in fundraisers, and volunteer as needed by the organization.</li><li>› Informed 200+ general body members of scholarship opportunities and monitored academic status as a chapter.</li><li>› Hosted study jams, facilitated an environment of mentorship and scholarship between members.</li><li>› Participated in the Urban Scholars Outreach Program by tutoring K-12 minority students in reading, writing, and mathematics.</li></ul>