EDUCATION		
May 2022	University of Florida, Doctor of Philosophy Major: Electrical and Computer Engineering	Gainesville
	GPA: 3.56/4.00	
Dec 2019	University of Florida, Master of Science	Gainesville
Dec 2017	Major: Electrical and Computer Engineering	Gainesville
	GPA: 3.56/4.00	
May 2017	University of Missouri Dugl Probaby of Science, Honors Scholar	Columbia
May 2017	Major: Electrical Engineering, Computer Engineering	Columbia
	Minor: Computer Science, Mathematics and Spanish	
	GPA: 3.16/4.00	
WORK HISTORY	Lam Possarch Corneration: Data Science Intern	Fromont CA
Muy 2020 - Aug 2020	Worked on an Industry 4.0 initiative within the Service Analytics Pessage	h and
	Development group to improve gutematic equipment testing and gro	livris botwoon field
	engineers and data analysts	
	Developed efficient parsers to extract recommended parameters used	l for building
	statistical models from numerous technical documents and export ther	n for easier
	utilization for model building	
	Created programs to automatically generate and filter parameters for	fleet monitoring
	applications in developed for Lam Etch Chambers	0
Aug 2017 – Present	University of Florida: Graduate Research Assistant	Gainesville, FL
0	Conducted natural language processing research on multi-lingual date	asets to analyze
	the effects of translation on cross-lingual authorship attribution	
	Conducted research utilizing techniques in machine learning, image pl	rocessing and
	pattern recognition	
	Cooperated with a team of researchers from remote universities to dev	elop an
	underwater environmentally adaptive target characterization and det	ection system
	Compared and developed unsupervised and supervised anomaly and	I target detection
	methods in synthetic aperture sonar (SAS) imagery	
	Analyzed feature representations of writing style in various languages u	sing machine
	learning and data analytics techniques	
May 2017 – Jul 2017	Lockheed Martin – Space Systems: Software Engineering Intern	King of Prussia, PA
	Cloned and imaged numerous servers with Microsoft Server 2012	
	Installed and configured various security and software patches for serve	er stations
	Created a C++ software tool to parse SDAS files of a switch matrix and	located errors in
	the hardware configuration	
	Developed a C++ software tool to parse SDAS files of a switch matrix ar	na refurn all USB
	aevice name, Guilos and paths to the user	King a of Day sector DA
JUN 2016 – AUG 2016	Lockneed Marin – Space Systems: Sonware Engineering Intern	King of Prussia, PA
	collaborated with a team of software engineers on an independent re	search and
	Development project	a P\$ 100
	communication standard on a RedHawk Linux real-time operating syste	a K3422
	Utilized the Hardware-in-the-Loop(HWIL) technique to troubleshoot and	nerform
	successful transmissions and receptions of data with a serial I/O SIO4 be	ard for an
	integrated flight simulation	
Feb 2015 - May 2017	University of Missouri: Undergraduate Research Assistant	Columbia MO
2010 1009 2017	Researched various machine learning algorithms and techniques	
	Cooperated with a team of interdisciplinary researchers to detect the t	arget signature of
	HLB infected orange trees in Florida using hyperspectral analysis	

	Conducted experiments on bed-sensor ballistocardiogram signals using Ex Functions of Multiple Instances (eFUMI) algorithm to successfully detect he signatures resulting in a publication (listed above)	xtended ≥artbeat
Oct 2013 – Feb 2015	University of Missouri Research Reactor: Student Technician	Columbia, MO
	Served as a computer assistant for 15 hours per week in computer hardwordesktop support for facility's 100+ employees	are and
	Imaged numerous company desktop computers, installed necessary Wind	dows
	applications, and troubleshoot Windows OS and computer hardware prol	blems
	Worked with a team of 5 technicians to configure facility servers and man and computer security protocol	idate internet
	Performed monthly maintenance on the MURR laptops, desktops and print the entire facility	iters throughout
Sep 2012 – Oct 2013	University of Missouri – Learning Center: Professional Algebra Tutor	Columbia, MO
	Tutored students of different grades for 15 hours per week in intermediate algebra	and college
	Conducted private study sessions with up to 3 algebra students and assisted in larger walk-in tutoring sessions with fellow tutors	
	Created algebra examples with problematic solutions in order to clarify al concepts	gebra
	Utilized online resources, such as WebWork and WebAssign, daily to guide their algebra schoolwork	students in

PUBLICATIONS CONFERENCE

P. Lyons, D. Suen, A. Galusha, A. Zare and J. Keller, "Comparison of prescreening algorithms for target detection in synthetic aperture sonar imagery," Proc. SPIE Detection and Sensing of Mines, Explosive Objects, and Obscured Targets XXIII, vol. 10628, pp. 387-394, Apr. 2018. doi: 10.1117/12.2305175

C. Jiao, P. Lyons, A. Zare, L. Rosales and M. Skubic, "Heart beat characterization from ballistocardiogram signals using extended functions of multiple instances," 2016 38th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), Orlando, FL, 2016, pp. 756-760. doi: 10.1109/EMBC.2016.7590812

JOURNAL

C. Jiao, B. Su, P. Lyons, A. Zare, K. C. Ho and M. Skubic, "Multiple Instance Dictionary Learning for Beat-to-Beat Heart Rate Monitoring From Ballistocardiograms," in IEEE Transactions on Biomedical Engineering, vol. 65, no. 11, pp. 2634-2648, Nov. 2018. doi: 10.1109/TBME.2018.2812602

PRESENTATIONS

2019 Oral presentation "Anomaly and Target Detection in Synthetic Aperture SONAR," University of Florida, Department of Electrical and Computer Engineering, Masters Thesis

- 2018 Oral presentation "Comparison of prescreening algorithms for target detection in synthetic aperture sonar imagery," Society for Optics and Photonics (SPIE) Defense + **Commercial Sensing**
- 2016 Poster presentation "Heart beat characterization from ballistocardiogram signals using extended functions of multiple instances," 38th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)

HONORS AND AWARDS

Fall 2020	GEM Full Science Fellowship
Aug 2017 – Present	University of Florida Graduate Assistantship
May 2017	University of Missouri Honors Scholar

Aug 2016	University of Missouri, Boeing Scholarship
May 2016	University of Missouri, College of Eng., Celebration of Women in Engineering Honoree
Aug 2011 – May 2017	University of Missouri Diversity Award
Fall '14, Fall '16	University of Missouri Dean's Lists

LEADERSHIP

Fall '20 – Present	Secretary – African-American/African/African Diaspora Students in ECE (A3ECE)
Spr '20 – Present	ECE Ambassador – Univ. of Florida College of Engineering, Dept. of ECE
Fall '16 – Fall '17	Treasurer – Institute of Electrical and Electronics Engineers (IEEE)
Fall '15 – Fall '16	Secretary – Institute of Electrical and Electronics Engineers (IEEE)
Fall '14 – Fall '15	Student Ambassador – Univ. of Missouri College of Engineering Ambassadors

MEMBERSHIPS

2014 – Present	Griffiths Leadership Society of Women
2013 – Present	National Society of Black Engineers (NSBE)
2013 – Present	Institute of Electrical and Electronics Engineers (IEEE)
2013 – Present	Association for Computing Machinery (ACM)
2012 – Present	Mizzou Collegiate Scholars