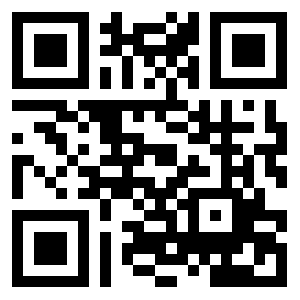
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Princess Priscilla Lyons

## Education

*University of Florida,* Gainesville, Florida 3.46/4.00

Master of Science in Electrical & Computer Engineering, May 2019

Research Interests: Machine Learning, Natural Language Processing, Data Analytics

*University of Missouri,* Columbia, Missouri 3.16/4.00

Dual Bachelor of Science in Electrical & Computer Engineering, Honors Scholar, May 2017

Minors in Mathematics, Computer Science & Spanish

## Work Experience

***Graduate Research Assistant*, University of Florida – GatorSense Machine Learning & Sensing Lab**

**Fall 2017 – Fall 2019** *Gainesville, Florida*

* Conducted research utilizing techniques in machine learning, image processing and pattern recognition
* Cooperated with a team of researchers from remote universities to develop an environmentally adaptive target characterization and detection system
* Compared and developed unsupervised and supervised anomaly and target detection methods in synthetic aperture sonar (SAS) imagery
* Authored and presented a SPIE Defense + Commercial Sensing research paper titled, “Comparison of Prescreening Algorithms for Target Detection in Synthetic Aperture Sonar Imagery.” [1]

***Software Engineering Intern*, Lockheed Martin – Space Systems Company Summer 2016/2017**

*King of Prussia, Pennsylvania*

* Collaborated with a team of software engineers on an independent research and development project
* Created C++ software tools to parse SDAS files of a switch matrix to locate errors in the hardware configuration, return all USB device names, GUIDs and paths to the user
* Designed a C++ driver to interface with a Serial I/O SIO4 board using a RS422 communication standard on a RedHawk Linux real-time operating system
* Utilized the Hardware-in-the-Loop (HWIL) technique to troubleshoot and perform successful transmissions and receptions of data with a serial I/O SIO4 board for an integrated flight simulation

***Undergraduate Research Assistant*, University of Missouri – TigerSense Machine Learning & Sensing Lab**

**Spring 2015 – Spring 2017**

*Columbia, Missouri*

* Communicated with interdisciplinary researchers to detect the target signature of HLB infected orange trees in Florida using hyperspectral image analysis
* Analyzed and adjusted parameter settings for experiments on bed-sensor ballistocardiogram signals using the Extended Functions of Multiple Instances (eFUMI) algorithm to successfully detect heartbeat signatures
* Co-authored an IEEE Engineering in Medicine and Biology Society Conference accepted research paper titled, “Heart Beat Characterization from Ballistocardiogram Signals using Extended Functions of Multiple Instances.”

## Skills & Relevant Courses

* + Skilled in C, C++, Java, Python, R, CUDA, OpenMP and Matlab programming languages
  + Software Design, Embedded Systems and Computer Architecture, Hardware Security
  + Machine Learning, Image Processing, Data Analytics and Digital Signal Processing
  + Fundamentals of Biometric Identification
  + Advanced conversational Spanish

## Honors, Leadership & Activities

* + U.S DoD Secret Security clearance
  + Univ. of Florida Graduate Research Assistantship Award
  + Univ. of Missouri, Celebration of Women in Engineering Honoree 2016
  + Univ. of Missouri Dean’s List (Fall 2014, 2016)
  + Univ. of Missouri Engineering Ambassador (2014-2015)
  + Mizzou Institute of Electrical & Electronics Engineers Secretary (2015-2016)
  + Mizzou Institute of Electrical & Electronics Engineers Treasurer (2016-2017)
  + Griffiths Leadership Society of Women (2014-Present)
  + National Society of Black Engineers (2012 – Present)