

Ivens Applyrs



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EDUCATION:

May 2018

University of Florida, Gainesville, Florida
Bachelor of Science in Computer Engineering

RESEARCH INTERESTS:

Human-Computer Interaction (HCI), Brain-Computer Interface (BCI), User Experience (UX), User Design, Wearable Technology, Computer Science Education, Educational Technologies

PUBLICATIONS:

Conference Papers (Refereed)

[C.1] Crawford, C.S., Andujar, M., Jackson, F., **Applyrs, I.**, & Gilbert, J.E. (2016). *Using a Visual Programing Language to Interact with Visualizations of Electroencephalogram Signals*. In Proceedings of the 2016 American Society for Engineering Education Southeastern Section (ASEE SE), Tuscaloosa, AL, March 13-15, 2016.

Research Papers

[P.1] **Applyrs, I.**, Williams, E., Desai, B., Mendoza, J., & Gilbert, J.E. *Consumer grade Brain Computer Interfaces as an augmented security measure for authentication*. Paper currently in progress.

PRESENTATIONS:

- | | |
|------|---|
| 2017 | Oral presentation of “Consumer grade Brain Computer Interfaces as an augmented security measure for authentication” [P.1] at the Southeastern Association of Educational Opportunity Program Personnel (SAEOPP) McNair |
| 2017 | Poster presentation of “Consumer grade Brain Computer Interfaces as an augmented security measure for authentication” [P.1] at the University of Florida (UF) undergraduate research symposium |
| 2016 | Oral presentation of “Consumer grade Brain Computer Interfaces as an augmented security measure for authentication” [P.1] at the University of Maryland Baltimore County (UMBC) McNair conference |
| 2016 | Poster presentation of “Using a Visual Programing Language to Interact with Visualizations of Electroencephalogram Signals.” [C.1] at the Southeastern Association of Educational Opportunity Program Personnel (SAEOPP) McNair |
| 2016 | Poster presentation of “Using a Visual Programing Language to Interact with Visualizations of Electroencephalogram Signals.” [C.1] at the Florida Undergraduate Research Conference (FURC) |

RESEARCH EXPERIENCE:

- | | |
|---------------------|---|
| May 2016 - Present | McNair Scholars Program, University of Florida: <ul style="list-style-type: none">• Poster Presentation of “Using a Visual Programing Language to Interact with Visualizations of Electroencephalogram Signals.” [C.1] at SAEOPP• Research Methods course on conducting practical research |
| Jun 2016 – Aug 2016 | Distributed Research Experiences for Undergraduates (DREU) <ul style="list-style-type: none">• Write initial draft of “Consumer grade Brain Computer Interfaces as an augmented security measure for authentication” [P.1]• Develop and distribute annotated bibliography of literary works relevant to Brain Computer Interfaces (BCIs) to team members• Test BCI headsets (Muse, Emotiv Insight, & Emotiv Epoch) on their practicality by identifying available testing software, device specifications, and efficacy for acquiring data.• Develop unanimity across research project by assigning research tasks, tracking progression of project, and communicating status of project to Principal Investigator (PI). |
| Apr 2015 – Present | Human-Experience Research Lab, University of Florida: Undergraduate Research Assistant <ul style="list-style-type: none">• Develop Client-server model for extracting Electroencephalogram data using Node.js• Performed literature review pertinent to Brain-Computer Interfaces (BCI) |

- Completed Collaborative Institutional Training Initiative (CITI) training for Institutional Review Board (**IRB**)
- Jan 2014 – Jan 2016 Florida-Georgia Louis Stokes Alliance for Minority Participation (**FGLSAMP**)
- Research assistant under Dr. Christian Grant conducting research in data science. Specifically, analyzing the varying difference between social communications on Twitter between black and white users.
 - Review code written in C used for data mining

INDUSTRY EXPERIENCE:

- August 2015 – February 2017 Dean of Students (Gainesville, FL): IT & Database Manager
- Update, Modify, and Design the Dean of Student's website using the Expression Engine content management system (CMS).
 - Backend support of marketing and design team front end designs using **HTML**, **PHP**, **SQL**, and **JavaScript**
 - Develop web applications for the department of Student Affairs using frontend **SQL** client **HeidiSQL** and backend web development languages
- May 2014 - August 2014 General Electric (Melbourne, FL): Signal Systems Engineering Intern
- Performed integration test of wayside control system by verifying and testing source code written in C
 - Collaborated with interns to plan and execute "United Way Silent Auction" that raised approximately \$2,600 in donations
 - Traced alarm and error IDs in C to satisfy a direct customer request.
- June 2013 - August 2013 Johnson & Johnson (Jacksonville, FL): IT Intern
- Developed a basic "Color Blindness Test" Android App for early non-medical indication of color blindness.
 - Tested diverse programming platforms, including **XML**, **Flex**, **Java**, and **C#** coding languages, to assist JNJ developers with reviewing completed vendor source code
 - Created an initial proof of concept that aided the launch of the Kinect face recognition project

LEADERSHIP EXPERIENCE:

- September 2016 – Present Engineering Leadership Institute: Student Advisor
- Provide feedback on curriculum content
 - assistance with monthly meetings (fall and spring terms), assistance in hosting leadership conferences or events at UF; and marketing of leadership scholarships and curriculum offerings. They also receive first priority for consideration to attend national leadership conferences.
- May 2014 - October 2014 National Society of Black Engineers (Region III): **Finance Chairman**
- Facilitated corporate relations in the South East division of NSBE comprising FL, GA, AL, MS, TN, KY, & the Caribbean
 - Trained Chapter leaders on effective fundraising and corporate solicitation strategies
 - Generated over \$30,000 in corporate solicitations for Region III
- August 2013 - May 2014 National Society of Black Engineers (UF Chapter): **Fundraising Director**
- Coordinated five fundraising events that raised \$1,000 towards chapter financial support
 - Led a public relation, project management, and sales fundraising committee
- Aug 2013 - May 2014 UF Student Government Leadership Development Cabinet: **Assistant Director**
- Coordinated the development of the rising organization Gator Leadership Connection (GLC)

SCHOLARSHIPS/AWARDS:

- 2016 John W. and Mittie Collins Engineering Scholarship Fund
- 2014-2015 Rhonda D. Holt Endowment for Academic Excellence
- 2014 African-American Forum General Electric Scholar
- 2014 Cunningham Scholarship Endowment
- 2013 Ralph Sias Scholarship Fund
- 2013 Wheat Engineering Endowed Scholarship

AFFILIATIONS / MEMBERSHIPS

May 2017 – Present



May 2016 – Present

McNair Scholar

November 2015 – Present

Alpha Phi Alpha Fraternity, Inc

January 2014- May 2016

FGLSAMP Scholar

August 2012 – Present

National Society of Black Engineers

TECHNICAL SKILLS:

- C++, C
- Java
- JavaScript
- Bootstrap
- Balsamiq (Wireframes)
- HTML
- PHP
- SQL
- Node.js, Mean.js, Mongo DB
- Heidi SQL
- MatLab
- AUTOCAD
- AUTODESK
- LabVIEW
- Content Management Systems (WIX, expression engine, etc)

LANGUAGES:

- Conversational in Haitian Creole
- Literate in French

SOFT SKILLS:

- Project Management
- Delegation
- Team Leadership