# Isabel Laurenceau

isalau@ufl.edu | 305-972-6009 | [www.isalau.me](www.isalau.me)
9972 SW 154th CT, Miami FL 33196

## Education

**Ph.D. Computer Science**                               Degree Expected: 2022
University of Florida
Advisor: Dr. Juan E. Gilbert
Gainesville, FL

**M.S. Computer Engineering**                           Degree Earned: 2019
University of Florida
Gainesville, FL

**B.S. Computer Engineering**                            Degree Earned: 2017
University of Florida
Minors: Dance, Mathematics
Gainesville, FL

## Research Interests

Affective Computing, Wearable Technology, Mobile Development, Human Centered Computing, Human Computer Interaction, User Experience and Design

## Internship Experience

**Brennan Center for Justice at NYU School of Law**        May 2020 - July 2020
*Media Democracy Fund Fellow*
Washington D.C (Remote)
Wrote a report on privacy and surveillance on Internet of Things devices; Researched government powers over global network infrastructure; Participated in discussions on technology policy such as the use of A.I in government agencies

**Leadership Conference on Civil and Human Right**        May 2019- July 2019
*Media Democracy Fund Fellow*
Washington, D.C
Created products for digital literacy
Aided with "Get Out the Count" efforts for 2020 Census
Explained and demonstrated US Census Bureau's Open Source DAS code to stakeholders

**Public Knowledge**                                       May 2018- July 2018
*Media Democracy Fund Fellow*

Washington, D.C
Participated in policy trainings and meetings
Performed research for staff on current issues
Wrote blog posts and write ups for staff on technology policy

**State Farm**                                                May 2016- July 2016
*iOS Mobile Developer Intern*
Atlanta, Georgia
Created beta versions of mobile applications
Attended and participated in daily SCRUM meetings
Competed in a Speech Program where I was chosen as one of the top 16 out of 100+
interns

**Southern Wine and Spirits**                                May 2013- July 2013
*Full Time PC Support Intern*
Miramar, Florida
Provided employee support with Hardware and Software for PCs, iPhones and
Printers

## Publications

Stinson, L.A., Prioleau, D., **Laurenceau, I.** et al. Correspondence between Responses
on an Internet Purchase Task and a Laboratory Progressive Ratio Task. Psychol Rec
(2021). https://doi.org/10.1007/s40732-021-00463-0

Dunbar, J., Alikhademi, K., **Laurenceau, I.**, Lewis, B., & Gilbert, J. E.(2021). Driver
Alertness Comparison Using BCI Data between the Voice-Based Arithmetic System
and Traditional Audio and Visual Alerts. International Journal of Traffic and
Transportation Engineering, 10(1), 1-9.

**Isabel Laurenceau**, Jessica Jones, Dekita Moon, Michelle Emamdie, Juan E. Gilbert,
2020, "Virtual Traffic Stop", IEEE International Symposium on Technology and
Society, 12-15th November, Tempe: Arizona

Wyrosdick, B., **Laurenceau, I.** Gilbert, J.E. (2020). An Application for Absentee Voter
Verification, In Proceedings of The 14th International Multi-Conference on Society,
Cybernetics and Informatics, Virtual Conference, pp. 121-125.

Jackson, F., **Laurenceau, I.** & Gilbert, J.E. (2019). Inclusive Wearable Design:
Developing a Set of Characteristics of Socially Acceptable BCI Devices for Women. In
Roscoe, R.D., Chiou, E.K. & Wooldridge, A.R. (Eds.), Advancing Diversity, Inclusion,

and Social Justice Through Human Systems Engineering, CRC Press, pp. 171-190.

Williams, A., Posadas, B., Prioleau, D., **Laurenceau, I.,** & Gilbert, J. E. (2019). User perceptions of haptic fidgets on mobile devices for attention and task performance. In *Advances in Intelligent Systems and Computing* (Vol. 776, pp.15–22). Springer Verlag. https://doi.org/10.1007/978-3-319-94622-1_2

## Technical Skills
**Languages:** C++, Swift, Python, Java, Elixir, HTML, CSS, JavaScript, PHP, SQl, C, VHDL

**UI/UX Skills:** Interviews, Focus Groups, Affinity Diagramming, Wireframing, Balsamiq, InVision

**Development Tools:** XCode, Android Studio, Agile Methods, Git, Mean Stack, Bootstrap

## Interesting Classes
**Graduate Classes:** Fundamentals of Machine Learning, Advanced Data Structures, Human Computer Interactions, Research Methods for Human Centered Computing, Public Policy Analysis, Statistical Methods for Research, Computer Networks, Analysis of Algorithms, Computer Architecture Principles, Distributed Operating Systems Principles, Natural User Interactions

**Undergraduate Classes:** iOS Development with Swift, Intro to Computer Organization, Circuits 1, Digital Logic, Intro to Number Theory, Intro to Numerical Analysis, Information & Databases Systems, Microprocessor Applications, User Experience and Design, Intro to Signals & Systems, Digital Design, Computer Aided Graphics & Design

## Research Projects
**Virtual Traffic Stop**                                                                     2016-
Advisor: Dr. Juan Gilbert
Human Experience Research Lab, University of Florida
About: Comprised of a mobile and web application virtual traffic stop aims to keep both civilians and officers safer during routine traffic stops. A provisional patent has been filed.
Duties: Worked with a web developer to create a platform where civilians and officers could communicate safely. Created iOS and Android mobile applications for civilians use.

**Voiceing**                                                    2016
Advisor: Dr. Juan Gilbert
Human Experience Research Lab, University of Florida
About: An iOS mobile application aimed at reducing distracted driving.
Duties: Worked with a fellow iOS developer to improve safety while driving. Prior to development, performed User Experience research. Connected the app to a remote server through a backend using PHP and SQL.

## Employment
Academic Technology Labs, University of Florida                    2014-2017

**Supervisor at Academic Technology**
Managing all labs; Creating employee schedules; Running events between departments; Website upkeep.

**Mobile App Development Lab Consultant**
Help users get started making apps or troubleshoot already developed apps.

**Technology Consultant**
Customer Support with Hardware and Software for PCs, Macs and Printers

## Leadership
*Community Service Chair*: Tau Beta Pi                    Fall 2019 - Spring 2020

*Graduate Coordinator*: National                          Spring 2019 - Spring 2020
Society of Black Engineers

*Treasurer*: Black Graduate Student                       Fall 2019 - Spring 2019
Organization

*Community Service Chair*: Floridance                     Fall 2015 - Spring 2016

## Awards & Honors
Fellowship: Ph.D.X,                                       2018-2020
Media Democracy Fund

Fellowship: Florida Board of Education,                   2017
University of Florida

Fellowship: National Science Foundation,                                    2017
Graduate Research Fellowship Program

Honors: Cum Laude,                                                          2017
University of Florida

## Professional Memberships

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| Tau Beta Pi | Association for Computing Machinery |
| National Society of Black Engineers | Human Factors and Ergonomics Society |
| Alpha Phi Omega | IEEE Computer Society |