Imani N. Sherman

Doctoral Candidate • Human-Centered Computing
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Education

University of Florida   *Gainesville,FL*
Doctorate in Human Centered Computing   Expected Graduation: 2021
Ph.D. Candidate   GPA: 3.96

University of Florida   *Gainesville, FL*
Information Security Graduate Certificate   2019

Kentucky State University   *Frankfort, KY*
Master of Computer Science   2015

University of Dayton   *Dayton,OH*
Bachelor of Electrical Engineering   2013

Research Lab Experience

University of Florida FICS   *Gainesville, FL*
Florida Institute for Cybersecurity Graduate Research Assistant   January 2018 - Present

- Investigating the intersection of usability, security and privacy in applications for mobile devices
- Developed and executed a user study to determine usability of two-factor authentication scheme
- Assisted in the privacy policy analysis of mobile money applications
- Provided data analysis support for usability results in credit card skimmer survey

University of Florida HXRL   *Gainesville, FL*
Human Experience Research Lab Graduate Research Assistant   June 2016- Present

- Investigating the intersection of technology policy and usability in voting and surveillance technology
- Assisted in user studies about blind and visually impaired people and their perception of autonomous vehicles
- Designed and published a study focused on the successes and challenges of visually impaired voters

Kentucky State University   Frankfort, KY
Graduate Research Assistant   August 2014-December 2015

- Assisted in the continued development of a bee management device that utilizes message authentication and transmission control protocol packets

- Developed a thesis that discussed the overall effect of technology and policy progression on the rate of human population increase, and certain policy characteristics that could be used to increase the bee population

- Provided tutoring services in math and computer science courses for undergraduate and graduate students in the Academic Center for Excellence

Professional Experience

Microsoft Research   Virtual
AI + R Intern   May 2020- August 2020

- Conducted user interviews to understand news habits of the general public

- Analyzed the experiences participants in two separated by manually coding transcripts using inductive coding

- Developed MTurk survey for user experience research to support 'Project Origin', a collaboration between the BBC, CBC/Radio-Canada, Microsoft and The New York Times

Lowe's Home Improvement   Mooresville, NC
Information Security Summer Intern   May 2018- August 2018

- Updated the standard operating process for creating groups and service accounts in Unix and Active Directory

- Analyzed and provided the state of Unix and Active Directory metadata

- Improved the state of metadata by filling information gaps and meeting with various employees across the company

FreePress   Washington, D.C
Media Democracy Fund PhDx Summer Fellow   May 2017- August 2017

- Assisted with the development of company response to Federal Communications Commission's Notice of Proposed Rulemaking WC Docket 17-108

- Reviewed and analyzed privacy policies of internet service providers for internal use

- Provided expertise to inform company stance on security related issues

Riverside Research   Dayton, OH
Open Systems Interconnection Defense Solutions Research Intern   June 2015-August 2015

- Conducted literature search related to wireless sensor network defense solutions.

- Developed a report surveying the quantitative assessment of OSI defense solutions.

- Simulated a mobile ad hoc network using NS-3 and Omnet++.

Riverside Research   Dayton, OH

Machine Learning Intern   May 2014 –August 2014

- Conducted literature searches on the state of the art Machine Learning research and commercial products.

- Developed a report that reviewed machine learning and discussed the future of the field.

- Completed an independent study of Stanford's Machine Learning course to help with the literature search.

Southwestern Ohio Council for Higher Education   Dayton, OH

Air Force Institute of Technology Research Intern   August 2013-June 2014

- Developed a visual tool using Matlab for glass composition exploration.

- Provided computational support using Matlab and Excel for glass composition exploration.

- Collected and organized glass composition information for future use.

Published Work

Imani Sherman, Jasmine Bowers, Liz-Laure Laborde, Juan E. Gilbert, Jaime Ruiz, Patrick Traynor, Truly Visual Caller ID? An Analysis of Anti-Robocall Applications and their Accessibility to Visually Impaired Users. To appear in *IEEE International Symposium on Technology and Society (IEEE ISTAS)*, 2020.

Imani Sherman, Jasmine Bowers, Keith McNamara Jr., Juan E. Gilbert, Jaime Ruiz, Patrick Traynor, Are You Going to Answer That? Measuring User Responses to Anti-Robocall Application Indicators. In the *Network and Distributed System Security Symposium (NDSS)*, 2020.

Julian Brinkley, Brianna Posadas, **Imani N. Sherman**, Shaundra B. Daily, Juan E. Gilbert, An Open Road Evaluation of a Self-Driving Vehicle Human-Machine Interface Designed for Visually Impaired Users. In the *International Journal of Human-Computer Interaction*, 2019.

Nolen Scaife, Jasmine Bowers, Christian Peeters, Grant Hernandez, **Imani N. Sherman**, Patrick Traynor, Lisa Anthony, Kiss from a Rogue: Evaluating Detectability of Pay-at-the-Pump Card Skimmers. In the *IEEE Symposium on Security and Privacy (S&P) 2019 Proceedings*

Jasmine Bowers **Imani N. Sherman**, Kevin R. B. Butler, Patrick Traynor, Characterizing Security and Privacy Practices in Emerging Digital Credit Applications. In the *12th ACM Conference on Security and Privacy in Wireless and Mobile Networks Proceedings*

Imani N. Sherman, Brianna Posadas, Simone A. Smarr, Juan E. Gilbert, My Finger, My Face, My Choice: A Preliminary Study Exploring the Use of Biometric Authentication on Mobile Devices and the Implications for Voter Verification. *WAY Workshop, Who Are You!? The Adventures in Authentication Workshop* (WAY), 2018 wayworkshop.org/papers/2018/way2018-sherman.pdf.

Imani N. Sherman, Anna Williams, Kiana Alikhademi, Simone Smarr, Armisha Roberts, Juan E. Gilbert. "What's Your Password? Exploring Password Choice Conformity in Group Decision Making. In the *2018 International Conference on Applied Human Factors and Ergonomics.*

Anna Williams, **Imani N. Sherman**, Simone Smarr, Brianna Posadas, Juan E. Gilbert, Human Trust Factors in Image Analysis. In the *2018 International Conference on Applied Human Factors and Ergonomics Proceedings.*

Brianna Posadas, **Imani N. Sherman**, Divyalashmi Mahendran, Gabriela Burgalia, Juan E. Gilbert, A Focus Group Study of Blind Voters in Alachua County. In the *2017 Human Factor and Ergonomics Society Meeting Proceedings.*

Jasmine Bowers, Bradley Reaves, **Imani N. Sherman**, Patrick Traynor, Kevin Butler. Regulators, Mount Up? Analysis of Privacy Policies for Mobile Money Applications. In *Proceedings of the Thirteenth Symposium on Usable Privacy and Security*, 2017.

Jessica N. Jones, Tiffany Smith, Naja Mack, **Imani N. Sherman**, Juan E. Gilbert, Engagement in Practice: The Development of and Lessons Learned from a Community Focused App Development Course. In the *2017 American Society of Engineering Education Conference Proceedings.*

Simone Smarr, **Imani N. Sherman**, Brianna Posadas, Juan E. Gilbert, Prime III: Voting for a More Accessible Future. In the *19th International ACM SIGACCESS Conference on Computer and Accessibility Proceedings.*

Presentations

Imani N. Sherman, Jasmine D. Bowers, Keith McNamara Jr., Juan Gilbert, and Patrick Traynor, Should I Answer? Measuring User Responses To Anti-Robocall Application Indicators. Poster at the *Symposium on Usable Privacy and Security* (SOUPS) 2019

Imani N. Sherman, Simone A. Smarr, Tiffanie R. Smith, Brianna Richardson, Juan E. Gilbert, Exploring Culturally Responsive Game Development, *International Conference on Urban Education*, 2018

Undergraduate Student Research Advising

Summer 2019	Liz-Laure Laborde, Nneka Udeagbala
Fall/Spring 2020	Paige Lee

Strengths and Abilities

Software: Axure, Balsamiq, InVision, Gimp, NetBeans, Unity, R, Omnet++, NS-3
Professional: Policy Analysis, Communication, Organization, Group Management
UX Methods: Affinity Diagramming, Prototyping, Usability Testing, Wireframes, Survey Development

Relevant Coursework

Cellular and Mobile Network Security	Fall 2018
Penetration Testing	Fall 2018
Computer & Information Security	Spring 2018
Technology Policy	Spring 2018
Network Security	Fall 2017
Human Computer Interface	Spring 2017
Research Methods	Spring 2017
Communicating Privacy	Fall 2016
UX Design	Fall 2016
Cryptography Algorithms	Fall 2015
Information Security	Fall 2014

Awards and Fellowships

Microsoft Ignite Humans of IT Student Ambassador	2019
Media Democracy Fund PhDx Fellow	2017
Florida Institute of National Security Fellowship	2016
McKnight Doctoral Fellowship	2016
Thurgood Marshall College Fund MillerCoors Scholarship	2015
Applied Computer Security Associates SWSIS Award	2014
Kentucky State University HBCU Scholarship	2013
Marathon Oil/UNCF Corporate Scholar	2011

Organizations

Tau Beta Pi, Member	Joined 2018
CyberGatorz, Community Service and Professional Development Chair	Joined 2017
UF Black Graduate Student Organization, Treasurer(2017)	Joined 2016
National Society of Black Engineers, Member	Joined 2009

Service

The Saturday Academy (*Virtual Tutor*)	2020
Microsoft's Minecraft for Education (*Black Wall Street Lesson Plan Contributor*)	2020
House of Hope Fellowship Church Summer Camp (*Cupcake Day Instructor*)	2020
National Society of Blacks in Computing (*CTF Challenge Co-Creator*)	2019
CADE Museum (*Featured Guest Presenter*)	2019
WISE Spring Break Camp (*CS Workshop Leader*)	2019
Carl H. Lindner YMCA (*Black History Month Event Volunteer*)	2019
Tau Beta Pi GatorTRAX (*Volunteer*)	2018
SOUPS (*Poster Committee*)	2018-2020
SOUPS (*WAYS Workshop Committee*)	2019