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## Jerone Dunbar, M.S.

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Computer and Information Science and Engineering Department  
University of Florida,  
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### EDUCATION

#### Ph.D. in Human-Centered Computing

University of Florida, Gainesville, FL  
Cumulative GPA 3.9 (On a 4.0 scale)

August 2018

*Research Interests:* User Experience for Cars, Software Applications and Mobile Technologies, Wayfinding Technologies, Search Interfaces and Systems, Human Factors, Human-Computer Interaction, In-Vehicle Infotainment Systems, Electronic Voting Technologies, Web Based Technologies, Databases and Spoken Language Systems.

Advisor: Dr. Juan E. Gilbert

#### Master of Science in Computer Science

Clemson University, Clemson, SC  
Cumulative GPA 3.83 (On a 4.0 scale)  
Focus: Interactive Computing and HCI  
Advisor: Dr. Juan E. Gilbert

December 2013

#### Bachelor of Science in Computer Science

St. Thomas Aquinas College, Sparkill, NY  
Graduated Summa Cum Laude,  
Cumulative GPA 3.98 / GPA in major 4.0 (Both on a 4.0 scale)  
Focus: Information Usage and Management, Minor: Business

December 2009

### RESEARCH, TEACHING & PROFESSIONAL EXPERIENCE

*User Experience Researcher*

Winter 2016

**Google, Inc. Maps UX**, Sydney, Australia

- Internship with Google Maps involved a collaborative research effort for in-home user interviews, analyzing a user needs survey, and conducting a usability study of concept designs. For each effort, data was analyzed using affinity diagramming techniques, charts, and tables; and then turned into reports to highlight insights, wins, and losses.

*User Experience Researcher*

Summer 2016

**Google, Inc. Search UX**, Mountain View, CA

- Internship for Google Search focused on two user experience projects. First, evaluated the search experience end to end from initial starting page to query formulation to search results and finishing with result filtering. Results informed the current mental model of results for the Content and Ads team. Second project evaluated the production experience for searches focused on Sports. Results will inform the next generation of the Sports vertical inside of Search.

*User Experience Researcher*

Summer 2015

**Nielsen, Engineering R & D**, Tampa/St. Petersburg, FL

- Human Computer Interfaces Intern responsible for owning Nielsen User Experience effort and redesign the way engineering provides tools and technologies to customers. Intern liable for problem analysis, interviews, card sorting, personas, scenarios, cognitive walkthroughs, think-aloud test, wireframes, mockups, prototypes and usability testing.

*User Experience Performance Analysis Researcher*

Summer 2014

**Intel Corporation, Software Services Group, Santa Clara, CA**

- Lead the qualitative speech data analysis for the workloads and experience task force. Hosted numerous User Experience and Metrics related workshops for the Platform Analysis Center within the Software Services Group and also for other groups across Intel. Worked on qualitative data analysis for speech applications.

*User Experience/Human Factors Interaction Design Intern*

Summer 2013

**Intel Corporation, PC Client Group, Hillsboro, OR**

- User Experience/Human Factors intern within the PC Client Group lead the entire User Experience effort for the Seamless Device Switching project. Techniques used included user interviews, cognitive walkthroughs, user interface design, scenarios, personas, wireframes, prototype development, thinking aloud user testing, usability testing and programming.

*Interaction and Experience Research Scientist*

Summer 2012

**Intel Labs, Silicon Valley, CA**

- Interaction and Experience Research Intern is responsible for collaborative rapid prototyping experience, including landscape research, user interviews, interaction design, visual design, prototype development, live presentation, and user assessment.

*Researcher Intern*

Summer 2011

**Data Sciences Summer Institute (Dept. of Homeland Security Project), Urbana Champaign, IL**

- Worked on a Department of Homeland Security project at the University of Illinois Urbana-Champaign building an Expert Search system that is used to find experts in a variety of disciplines.
- Techniques used, but not limited to data crawling, data classification, topic modeling, information retrieval and web user interface design.
- Managed overall user experience and interface efforts.

*Graduate Research/Teaching Assistant*

Fall 2014 – Present

**University of Florida Computer & Information Science & Engineering Department,**

Gainesville, FL

- Project Co-Lead on Automotive and Distracted Driving research. Tasks including but not limited to experiment design, programming, system design, database design, software architecture design, conducting experiments, UX methodologies, writing papers and presenting research topics.
- Project team member of Prime III, electronic voting system, which supports universal design. Worked on continuous system design and implementation improvements.
- National Science Foundation (NSF) grant writing team member.
- Teaching Assistant (Fall 2015) for User Experience Design/Interaction Design course, which included instructing, grading, tutoring and office hours for 77 students.

*Graduate Research Assistant*

Summer 2010 – Spring 2014

**Clemson University Department of Human-Centered Computing, Clemson, SC**

- Project Lead on electronic voting and verification system usability studies, and also on in vehicle infotainment systems and applications. Tasks included but not limited to programming, system design, database design, software architecture design, experiment design, conducting experiments, writing papers and presenting research topics.
- Team member of Prime III portal and distracted driving teams where I performed many of the aforementioned tasks.
- Primary Liaison for the National Society of Black Engineers National elections.

*Research Student Intern*

Summer 2009

**Computing Research Association based at Auburn University, Auburn, AL**

[Distributed Research Experience for Undergraduates DREU]

- Worked mainly in the Human Centered Computing Lab conducting research activities.
- Research included usability studies with electronic voting systems for the blind, deaf and disabled.

*Teaching Assistant*

Spring 2010

**Clemson University Department of Computing, Clemson, SC**

- Lab Instructor for Visual Basic course, which included 25 students.
- Tutored undergraduate and graduate students in a variety of Computer Science course but mainly focused on courses that included html, vxml, xml, php, C and Java.
- Grader for Database Systems 462/662 course.

**WORK EXPERIENCE***Database Developer Intern*

Spring 2009

Wyeth Pharmaceuticals, Pearl River, NY

- Developed database using MS Access for the Procurement Department to enhance the efficiency and processing of crucial large files

*Hardware Systems Engineer*

Summer 2008 &amp; Fall 2008

Spectra Laboratories, Rockleigh, NJ

- Conducted PC imaging, and performed various windows installation and updates, PC Transplant, Network and Systems Administrative task.

*Resident Assistant*

Summer 2007-Fall 2009

St. Thomas Aquinas College, Sparkill, NY

- Responsibilities included but not limited to the planning of numerous educational and social activities, and overseeing resident students to ensure the safety, health and comfort.

**SOFTWARE PROGRAMMING AND USABILITY SKILLS**

*DBMS and TOOLKITS:* Windows Presentation Foundation (WPF), Microsoft Access, MySQL, Web-Accessible Multimodal Applications (WAMI), Osate, Topcased, Open GL, InVision, Balsamiq and Axure.

*Programming and Scripting Languages:* Processing, Python, PHP, Lisp, VoiceXML, html, CSS, jQuery, Java, JavaScript, C and Visual Basic.

*IDEs:* Eclipse, NetBeans and Microsoft Visual Studio.

*Statistical Packages:* JMP, SAS and R.

*Usability: Research and Design Methods:* Interviews, Focus Groups, Think-A-Loud Testing, Cognitive Walkthroughs, Diary Studies, Landscape Research, Competitive Benchmarking, Contextual Inquiry, Accessibility Research, Ethnography Study, Remote User Testing, Usability Testing, Affinity Diagrams, Personas, Prototypes, Scenarios, Sketches, Storyboards, User Flows, and Wireframes.

**PUBLICATIONS**

1. **Dunbar, J.**, & Gilbert, J. E. (2017, July). The Human Element in Autonomous Vehicles. In *International Conference on Engineering Psychology and Cognitive Ergonomics* (pp. 339-362). Springer, Cham.
2. Brinkley, J., **Dunbar, J.**, Smith, D.J., and Gilbert, J.E. (2017). A Usability Evaluation of the BMW Active Cruise Control System With “Stop and Go” Function. In *Proceedings of the Human Factors and Ergonomics Society 2017 Annual Meeting*. Austin, TX, USA, pp. 1536-1540.
3. Alvarez, I., Alnizami, H., **Dunbar, J.**, Jackson, F., & Gilbert, J.E., (2015) Help on the road: Effects of vehicle manual consultation in driving performance across modalities, *International Journal of Human-Computer Studies*, 73, pp. 19-29.
4. **Dunbar, J.**, (2015). Improving the GTAM Standard/GTAM Lite User Experience, Nielsen Engineering Research & Development. Internal Whitepaper. Published September 16, 2015.
5. Eugene, W., **Dunbar, J.**, Nolan, A., Gilbert, J.E., & Hendrix, R.L., (2015) Designing the Naturalistic Driving Experience, In *Proceedings 4th International Conference, DUXU 2015, HCI International 2015*, pp. 439-449, Los Angeles, CA, August 2-7, 2015, A. Marcus (Ed.): DUXU 2015, Part III, Springer LNCS 9188.
6. **Dunbar, J.**, Hall, P., Moon, D., & Gilbert, J.E., (2015) Video verification: An alternative form of identity verification, In *Proceedings of 6th International Conference on Applied Human Factors and Ergonomics (AHFE 2015) and the Affiliated Conferences, AHFE 2015*, pp. 4889-4895, Las Vegas, Nevada, July 26-30, 2015.
7. Gilbert, J.E., Moon, D., **Dunbar, J.**, Solomon, A., & Daily, S.B. (2014) Lab Daze: A Web-Series Aimed at Changing the Student’s Perceptions of Scientist, In *Proceedings of International Conference of Urban Education*, Montego Bay, Jamaica, November 6-8, 2014.
8. Gilbert, J.E., **Dunbar, J.**, Ottley, A., & Smotherman, J.M. (2013). Anomaly detection in electronic voting systems. *Information Design Journal*, 20, 3, pp. 194-206.
9. Alvarez, I., Alnizami, H., **Dunbar, J.**, Johnson, A., Jackson, F., & Gilbert, J.E. (2011) Designing Driver-centric Natural Voice User Interfaces. In *Adjunct Proceedings of the 3rd International Conference on Automotive User Interfaces and Interactive Vehicular Applications*, Salzburg, Austria, pp. 166-169.
10. Alvarez, I., Martin, A., **Dunbar, J.**, Taiber, J., Wilson, D., & Gilbert, J.E., (2010), Voice Interfaced Vehicle User Help, In *Proceedings of the 2nd International Conference on Automotive User Interfaces and Interactive Vehicular Applications (AutomotiveUI 2010)*, pages. 42-49, Pittsburgh, PA.

**CONFERENCE POSTERS/PRESENTATIONS**

1. **Dunbar, J.** & Gilbert, J. User Control in Autonomous Vehicles. *Florida Education Fund, Research That Impacts Policy and Practice Conference*, Tampa, FL, February 2016, Presentation.
2. **Dunbar, J.** & Gilbert, J. Creating a safer driving environment and enhancing the driving experience for our roads. *National Black Graduate Student Conference*. March 2013. Dearborn, MI.
3. **Dunbar, J.** & Gilbert, J. The Effects of Semi-Autonomous Vehicle Malfunctions and Override Features on Drivers. *Tapia Celebration of Diversity in Computing*. February 2013. Washington D.C.

4. **Dunbar, J.** & Gilbert, J. Anomaly Detection in Electronic Voting Systems. ADMI A4RC, *The Symposium on Computing at Minority Institutions*. Cloud Computing. April 2011. Clemson University, Clemson, SC.
5. **Dunbar, J.** & Gilbert, J. Deep Orange, Next Generation Automobiles. ADMI A4RC, *The Symposium on Computing at Minority Institutions*. Winds of Change in Computing. April 2010. Jackson State University, Jackson, MS.

### **PATENTS/PATENT PENDING**

1. Patent: “**Automotive Camera Vehicle Integration**” with C. Montesinos, V. Fang, P. Clifton, T Nguyen, J. Ekandem and J. Dunbar. Intel Corporation, Docket No. P51117, July 2013.
2. Patent Pending: “**Exploring Redrawn Experiences from the Search Results Page**” with **J. Dunbar** and T. Hausman. Google, Inc. Docket No. Pending. September 2016.

### **SPEAKING ENGAGEMENTS**

*Motivational Speaker* October & November 2010  
St. Thomas Aquinas College’s Open House event aimed to encourage students to pursue their Bachelor of Science in Computer Science.

*Motivational Speaker* February 2017  
Spoke at the University of New South Wales in Australia to indigenous minority students who were not traditionally exposed to engineering and Google employees.

### **PAPER REVIEWS**

Tapia, Diversity on Computing September 2014

### **GRANT REVIEWS**

Professional Enrichment Grant 2013 – 2014 Academic Year

### **HONORS & AWARDS**

Alpha Epsilon Lambda Lifetime Leadership Award	Fall 2017
International Conference on Human-Computer Interaction (HCI) best paper finalist	Summer 2017
Harris Scholarship	Spring 2017
Google Kudos Award	Summer 2016
Nielsen Innovate Inspire Excel Whitepaper Author Award	Summer 2015
University of Florida Doctoral Support Award	May 2015
Generation Google Scholar	Spring 2015
Intel Recognizing Everyday Heroes of Tomorrow Award – Disciple	Summer 2014
Intel Recognizing Everyday Heroes of Tomorrow Award – Risk Taking	Summer 2014
Intel Recognizing Everyday Heroes of Tomorrow Award – Quality	Summer 2014
Intel Recognizing Everyday Heroes of Tomorrow Award – Business Imperatives	Summer 2014

Intel Recognizing Everyday Heroes of Tomorrow Award – Great Place to Work Disciple Summer 2014

First Place Poster Awardee at NBGSA conference	Spring 2013
Upsilon Pi Epsilon Honor Society	Fall 2012
Intel Labs Kudos Award	Summer 2012
Alpha Epsilon Lambda Honor Society (Top 1% of the top 35% of graduate students)	Fall 2010
First Place Poster Awardee at ADMI conference	Spring 2010
Gold Service Award	Spring 2010
NCAA Academic Excellence Award recipient	2008 & 2009
Spartan Leadership Award	Spring 2009
Alpha Chi and Chi Alpha Honor Societies	Spring 2008 & Spring 2009
Scholars/Honors Program Scholar	Summer & Fall 2006
Emerging Leadership Award	Fall 2005
African American Researchers in Computing Science (AARCS) Scholarship recipient for Microsoft Research.	Summer 2009

## MEMBERSHIPS

Association for Computing Machinery (ACM)	Spring 2008 - Present
Human Factors and Ergonomics Society (HFES)	Spring 2011 - Present
IEEE Computer Society	Fall 2011 - Present
Alpha Epsilon Lambda Honor Society	Spring 2010- Present
Upsilon Pi Epsilon Honor Society	Fall 2012 - Present

## SERVICE

<b>President (Univ. of Florida)</b> , Alpha Epsilon Lambda (AEL)	Spring 2015 - Summer 2016
<b>Treasurer (Univ. of Florida)</b> , Association of Graduate Students in Computer and Information Science and Engineering,	Spring 2015 - Summer 2016
<b>Member</b> , Graduate Student Advisory Council (GSAC)	Fall 2014 – Present
<b>Member</b> , Black Graduate Students Organization (BGSO)	Fall 2014 – Present
<b>Member</b> , Jamaican American Student Association (JAMSA)	Fall 2014 – Present
<b>Member</b> , National Society of Black Engineers (NSBE)	Fall 2014 – Present
<b>Interim Vice President</b> , Clemson Human Factors and Ergonomics Society	Spring 2014
<b>Interdepartmental Liaison</b> , Clemson Human Factors and Ergonomics Society	Fall 2013 – Spring 2014
<b>Graduate Board Member</b> , Student Affairs Student Advisory Board	Fall 2012 - Spring 2014
<b>President (Clemson Univ.)</b> , Alpha Epsilon Lambda (AEL)	Fall 2012 - Spring 2014
<b>Member</b> , School of Computing Graduate Student Association,	Fall 2012 - Spring 2014

<b>Webmaster</b> , AEL	Fall 2010 – Spring 2011
<b>Vice President (Clemson)</b> , NSBE	Fall 2010 – Spring 2012
<b>Telecommunications Chair</b> , NSBE	Spring 2010 – Spring 2012
<b>Social Networking Chair</b> , Black Graduate Student Association (BSGA)	Spring 2010 - Spring 2012
NCAA Div II & Club Soccer	Fall 2005 – Fall 2008
NCAA Div II Men's Tennis	Spring 2006 – Spring 2009
<b>Vice President</b> , Student Government Association (S.G.A)	Calendar Year 2008
<b>President</b> , Campus Activities Board	Calendar Year 2009
<b>President</b> , Culture Shock Club	Calendar Years 2008 & 2009

## VOULNTEER WORK

### University Related- On-Campus

**Annual Graduate Student Research Day** – member of the Graduate Student Advisory Council's planning committee. My responsibilities included managing the scheduling of events for the day, attaining a keynote speaker, fundraising to support the event, and coordinating the judges (October 2014 and October 2015).

**<CodeIt> Day**- Helped develop curriculum and served as instructor for 12-15 middle school students, where they were taught how to code and build robots using Scratch, Lego Mindstorms and Auduinos (April 2013, 2014 and October 2015).

**3 Minute Thesis Competition** – another flagship event with the Graduate Student Advisory Council, where I lead the fundraising efforts, as well as coordinated the graduate student panel (February 2015).

**Startup Seminars** – lead the Startup seminar and student panel effort within the Computer Science department at the University of Florida aimed at building relationships between Startups and computer science students (Spring 2015).

**Litter Pick-up**- Occurred once every semester. I was responsible for organizing our annual service event where we removed the trash and debris within our designated street on campus, which included coordinating between 10 and 30 volunteers. (Nov 2012, April 2013, Nov 2013 and April 2014).

**Habitat for Humanity**- assisted with the physical building of homes for low-income families in Seneca, SC with my organization, AEL (October 2013 and March 2014).

### Company Related - Off Campus

**Google Tech Volunteer at Australian University** - Volunteered at the University of New South Wales to speak to disadvantaged minority students. Participated in group breakout sessions on Saturday afternoon to speak with numerous students in separate groups of 3 discussing their career interests and highlighting some of the possibilities and opportunities in tech, which many were not aware of (February 2017).

**GoogleServe**- Every year Google has a month of service where employees can dedicate time to doing good and helping those in need. In my time of service with GoogleServe, I helped packed food for starving families in international countries across the Globe. On my day of service in question, a group of approximately 30-40 Google employees, including

myself, helped packed food for 10000 people. Almost 22000 die from starvation or malnutrition daily, and this effort directly reduces the number of deaths (June 2016).

**Nielsen Global Impact Day-** Yearly, the Nielsen Company hosts a day of volunteering for employees across the globe. I assisted with the extensive cleaning of indoor and outdoor living quarters for RCS Grace House (which provides temporary living for low income or homeless) family members (July 2015).

**Intel Involved** – Managed the snack time effort for all Santa Clara interns for both Intel internships in California. This included purchasing all the snacks that interns were interested in and also strongly encourage interns to take a few minutes every other Friday to refresh their minds, have some snacks and network with other interns (Biweekly from June 2012 to August 2012 and June 2014 to August 2014).

**Design Code Build** – as a part of an Intel and Broadcom group specific volunteering effort, I taught basic data structures to minority students and facilitated their group efforts to build miniature robots (July 2014).

**Intel Involved-** I assisted making food baskets for the poor (July 2012).