

**EMMA DROBINA**  
E301 CSE Building PO Box 116120  
Gainesville, FL 32611-6120  
(843) 743-8377 (cell) | [emmadrobina@gmail.com](mailto:emmadrobina@gmail.com)  
[www.emmadrobina.com](http://www.emmadrobina.com)

## EDUCATION

**PhD Candidate in Human-Centered Computing** May 2023 (expected)  
University of Florida Gainesville, FL

**Bachelor of Science in Computer Science** May 2018  
University of South Carolina Honors College Columbia, SC  
Minor: Spanish  
Graduated summa cum laude, GPA: 3.98/4.0

## RESEARCH EXPERIENCE

**Human Experience Lab (HXR Lab)** Gainesville, FL  
Graduate Assistant August 2018 - present  
Supervisor: Dr. Juan Gilbert

- Edited papers of other graduate students prior to journal submission

**University of South Carolina ART Lab** Columbia, SC  
Undergraduate Assistant February 2015 – April 2018  
Supervisor: Dr. Jenay Beer

- Worked on a project based on heuristic analysis of telepresence systems
- Developed code in Choregraphe for interactive robotics projects
- Completed IRB human subjects training
- Awarded research grant to study the use of robots in education
- Designed a study with Dr. Jenay Beer to evaluate human perceptions of a robot tutor's behavior
- Analyzed results & statistics for above study
- Presented study results at Discover USC research showcase

## WORK EXPERIENCE

**Boeing** Charleston, SC  
IT Intern (Airplane Systems Computing) May – August 2016  
Supervisor: Yvette Whitfield

- Modified the design and content of Boeing internal websites to match current company standards
- Migrated databases from Access to SQL
- Rewrote backend of websites to accommodate connections to SQL Server instead of Access
- Collaborated with teammates to create a web-based game to start conversations about diversity in the workplace

**Boeing** Charleston, SC  
IT Intern (Airplane Systems Computing) May – August 2015  
Supervisor: Jeremy Ledger

- Created front end for a C# application using Winforms
- Added functionality to the same application using a combination of C# and SQL, so that users could select people to be given access to a Boeing application
- Increased speed of a C# application used to import Excel documents to SQL Server by approximately 30%
- Worked to correct multiple bugs affecting document uploads in one Boeing web application
- Modified an application to replace functionality from a .dll that was being discontinued

## PROJECTS

**Capstone Computing Project** August 2017 – May 2018  
Professor: Dr. Jose Vidal

- Cooperatively created web application to connect students looking for research opportunities to professors for the Office of Undergraduate Research with a team of four other students

- Designed and programmed blog functionality for the web application in Angular
- Completed QA testing for another team of students

**Critical Interactives: Ward One**

January – April 2017, January – April 2018

Professors: Dr. Duncan Buell, Dr. Heidi Cooley

- Collaborated with a multidisciplinary group of students to design a geolocative, educational mobile app
- Implemented navigation between pages (semester one) and layout of content within a page, as well as connection to the database (semester two) as part of a small team of student developers

**CONFERENCE PROCEEDINGS**

Wu, X., Thomas, R., Drobina, E., Mitzner, T., & Beer, J. (Accepted). Telepresence heuristic evaluation for adults aging with mobility impairment. *Proceedings of the HFES 2017 International Annual Meeting*.

Wu, X., Thomas, R., Drobina, E., Mitzner, T., & Beer, J. (2017). An evaluation of a telepresence robot: User testing among older adults with mobility impairment. In B. Mutlu, M. Tscheligi, A. Weiss, & J. E. Young (Eds.), *Proceedings of the Companion of the 2017 ACM/IEEE International Conference on Human-Robot Interaction* (pp. 325-326). New York, USA: Association of Computing Machinery.

**HONORS & AWARDS**

Graduate School Preeminence Award

Phi Beta Kappa

Carolina Scholar – one of 20 selected for the Class of 2018

National Merit Scholar

President’s List and Dean’s List

Palmetto Fellows Scholar

Magellan Grant Recipient

**ACTIVITIES**

Member of Women in Science and Engineering

**SKILLS**

Programming Languages: Java, C#, Angular, SQL, Python, C++, HTML, CSS

Programs: GitHub, Visual Studio, Eclipse, Spyder, RStudio, Matlab

Operating Systems: Ubuntu, Windows 7-10, macOS, iOS

Other: Writing (technical and nontechnical)