

EMMA DROBINA

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EDUCATION

PhD Student in Human-Centered Computing May 2023 (expected)
University of Florida Gainesville, FL
GPA: 4.00/4.00

Bachelor of Science in Computer Science May 2018
University of South Carolina Honors College Columbia, SC
Minor: Spanish
Graduated summa cum laude, GPA: 3.98/4.00

RESEARCH EXPERIENCE

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

- Edited papers of other graduate students prior to journal submission
- Coded qualitative results from a survey about student perceptions of two online learning platforms for first-year computer science students and collaborated on a paper summarizing my team's findings
- Assisted in collecting data for a study on the use of augmented reality as a tool to teach exercises to physical therapy patients

University of South Carolina ART Lab Columbia, SC
Undergraduate Assistant February 2015 – April 2018
Advisor: 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 fellow interns to write content for 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

- Built 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

CLASS PROJECTS

AR Therapy

December 2018– present

Professor: Dr. Lisa Anthony

- Redesigned the user interface of Tyto Online, an educational massively multiplayer online game, as part of a team of students in collaboration with Immersed Games, a local game studio
- Created wireframes and prototypes throughout our design process, and showcased them to clients and fellow students

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., Drobin, 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., Drobin, 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, Python, C#, Angular, SQL, C++, HTML, CSS

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

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

Other: Balsamiq, Mockplus, Axure, technical writing