Ann-Kareen Gedeus

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EDUCATION

Cornell University   Aug 2024 – present | New York, NY
PhD, Information Science
Advisor: Angelique Taylor

University of Florida   Aug 2020 – May 2024 | Gainesville, FL
Bachelor of Science in Computer Science
GPA: 3.7/4.0

PRESENTATIONS

Gedeus A., Bai Y., Taylor A., Yoon S., "Designing AI-Avatars to support young adults in emotion regulation with positive self-talk". *Cornell University, Ithaca, NY*. December 2024

Arce T., **Gedeus A.**, "A Comparison of Augmented Reality Corsi-Block-Tapping Tests To Their Physical Counterparts". *National Society of Black Engineers 50th Annual National Convention*, Atlanta, Georgia. March 2024.

Arce T., **Gedeus A.**, "A Comparison of Augmented Reality Corsi-Block-Tapping Tests To Their Physical Counterparts". *University of Florida Undergraduate Research Symposium,* Gainesville, Florida. April 2024

Gedeus A., "Why Research" Workshop Presenter & Speaker. *National Society of Black Engineers Fall Regional Conference Region 3*, Atlanta, Georgia. November 2023

RESEARCH EXPERIENCE

SoundPad Lab, University of Florida   Aug 2022 – Apr 2024
Undergraduate Research Assistant, Dr. Kyla McMullen
- Designed an Augmented Reality (AR) Corsi Block-Tapping Test (CBT) to understand spatial memory in virtual environments
- Collected data on subject performance in AR CBTs, Physical CBTs, Physical Walking CBTs, and AR Walking CBTs
- Leveraged knowledge of Microsoft Mixed Reality Toolkit (MRTK) to implement CBTs and understand AR aspects of spatial memory
- Conducted quantitative analysis of subject CBT data using computational methods for hypothesis testing with ANOVAS
- Results demonstrated that there were no significant differences in subject performance

Computing for Social Good Lab, University of Florida   Aug 2021 – May 2022
Undergraduate Research Assistant, Dr. Juan Gilbert
- Conducted User Experience (UI/UX) and Internet of Things (IoT) research on Health Applications that improve the health and wellness of people in rural areas
- Implemented a functional prototype of a Health IoT system that remotely monitors a user's heart rate and controls an LED using an Arduino, the Blynk Cloud Platform, and ReactJS
- Created a Health IoT system that maximizes interoperability and data accessibility
- Developed a web dashboard capable of streaming patient biometrics in real-time over a Bluetooth Low Energy (BLE) connection instead of Wi-Fi
- Created a notification system to alert the user of 3 main features
- Tested Interoperability using ESP32 and Polar Heart Rate Sensor

Computing for Social Good Lab, University of Florida   Jan 2021 – May 2021
Undergraduate Research Assistant, Dr. Juan Gilbert
- Searched and read papers on Google Scholar for security vulnerabilities in DVDs
- Created a report on DVD security within voting machines
- Researched literature on technologies used for voting

- Read relevant literature on voter fraud and prevention

INDUSTRY EXPERIENCE

F5 Networks   May 2024 – Aug 2024 | Seattle, WA
Software Engineering Intern
- Integrated Bazel build system into 15 features in one of BIG-IP repositories
- Changed the build schema of each feature from Go Builds to Bazel builds, by modifying existing docker files and using Gazelle BUILD.bazel files
- Cut the build time of the entire repository by more than half with Bazel integration

F5 Networks   May 2023 – Aug 2023 | Seattle, WA
Software Engineering Intern
- Integrated into the NGINX Amplify team, and worked on tasks on the Jira backlog
- Created a developer-side login system using Docker and Golang allowing for faster access to developer tools
- Developed public-facing interactive features to display NGINX directive information
- Developed a uniform styling for tags across the Amplify webpage

Microsoft & Cyborg Mobile   Jun 2022 – Aug 2022 | Remote
New Technologist Intern
- Developed an app utilizing ReactJs, that gamifies financial literacy for young adults
- Designed engineering specs, conducted user interviews, prototyped, and scoped out the team project
- Worked on backend features that calculate account balances and update account numbers after button click using React hooks and props
- Displayed messages/alerts during certain states using React Hooks

TEACHING & MENTORING

Peer Mentor   Aug 2022 – May 2024
University of Florida, National Society of Black Engineers
- Guide 3 black computer science students in their course planning and navigating their engineering classes at a PWI
- Help the students find research opportunities and connect them to research advisors

Teaching Assistant, Head TA   Aug 2022 – Dec 2023
University of Florida, CEN3031 - Intro to Software Engineering
- Lead discussion section with 25-30 students every week for Intro to Software Engineering
- Operate Office hours and manage Slack to answer student questions and help with project code
- Scored over student presentations, projects, and daily scrums
- Managing 70+ students' grades and questions as head TA

Co-Curriculum Developer   Jan 2023 – May 2023
University of Florida, CIS4930 - FullStack Internet of Things
- Worked on creating a WebSocket chat application project specification for the course
- Collaborated with 3 undergraduates on the project
- Leveraged concepts and theories from IoT research to create project specification

First-Generation Peer Mentor   Sep 2021 – May 2023
University of Florida, Machen Florida Opportunity Scholars
- Provided academic and emotional support to 8 First-Generation freshmen
- Meet with mentees every month and discuss academic progress, club involvement, and social life
- Discuss finances and managing MFOS scholarship money

LEADERSHIP EXPERIENCE

Secretary   May 2023 – May 2024
University of Florida, National Society of Black Engineers
- Lead communication zone, consisting of 4 members
- Assign tasks to zone members and divide the workload
- Manage room bookings, bi-weekly newsletter, and social media

Publications Chair   Aug 2022 – May 2023
University of Florida, National Society of Black Engineers
- Create event flyers for social media posts and meetings
- Manage social media and inform members of upcoming events

AWARDS & SCHOLARSHIPS

Graduate Research Fellow   2024 – present
National Science Foundation
- 1 of 2,037 selected from 14,106

Graduate School Dean's Scholar   2024 – present
Cornell University, Cornell Tech

McNair Scholar   2023 – 2024
University of Florida, Ronald E. McNair Post-Baccalaureate Achievement Program

University Scholar   2023 – 2024
University of Florida Center for Undergraduate Research University Scholars Program

VOLUNTEER

Cornell Tech, Older Adults Technology   Feb 2025
Volunteer
- Aid older adults in understanding their technology
- Help troubleshoot technological issues on their devices

Queens Tech Fair   Jan 2025
Volunteer
- Community event engaging Queens borough residents in Tech fields
- Demonstrate and present lab research projects

LANGUAGES

Haitian Kreyol — *Native Speaker* | **French** — *Proficient in Speaking & Writing*