

Raiffa Syamil (she/her)

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EDUCATION

University of Central Florida | GPA: 3.6

August 2020-Dec 2026 (expected)

Relevant Coursework: Fundamentals of Computer Graphics, Realistic Real-Time Rendering, Fundamentals of Virtual Reality, Virtual Reality Engineering

PhD Student in Computer Science

Advisor—Dr. Carolina Cruz-Neira

University of Kentucky | GPA: 3.26

August 2016-August 2020

Bachelor of Science in Computer Science

Minor in Mathematics

TECHNICAL SKILLS (alphabetical order)

<languages & frameworks> C, C++, C#, CMake, CSS, HTML, JavaScript, Node.JS, OpenXR,

Python, R, React Native, SAS, OpenXR, QT, VBA, VB.NET

<else> Adobe Creative Suite, Agile, Git, Hololens 2, HTC Vive Cosmos, Linux, Meta Quest Pro,

Oculus Quest 2, Unity, Unreal Engine 4, Visual Studio

EXPERIENCE

Graduate Research Assistant -- VARLab, University of Central Florida

Aug 2020-Present

Advisors—Dr. Carolina Cruz-Neira & Dr. Dirk Reinert

- Conducted Virtual Reality research projects for industry and academic partners
- *Active Research Topics:* Evaluating cybersickness reduction techniques, AR eye tracking techniques, 360° Video Cinematic Virtual Reality

Graduate Teaching Assistant -- University of Central Florida

Aug 2022-Dec 2022

Concepts in Computer Science (Python)

- Conducted lab once a week for 200 students, reviewed material from lecture and led programming activities, assisted students one-on-one in office hours, and graded assignments

Software Developer -- DeltaV Innovations, Cincinnati OH

May 2020 – May 2021

- Contributed to design and development of physics-based vehicle crash reconstruction visualization software

Undergraduate Research Assistant -- EduceLab, University of KY

Aug 2018-Aug 2020

Advisor—Dr. Brent Seales

- Developed an automatic XML metadata collection and delivery process to solve a long-standing issue with the existing Virtual Unwrapping pipeline
- Produced video on Machine Learning research reinterpreted for non-technical audience

Undergraduate Teaching Assistant -- University of Kentucky

Aug 2019 – May 2020

Intr To Pgm Design Abstraction/Prob Solv (C++), Web Programming

- Assisted Graduate Teaching Assistants in lab, assisted students one-on-one in office hours, graded assignments

Associate IT Systems Analyst -- GE Appliances, Louisville KY

May 2019-July 2019

- Streamlined the migration of two business applications used by GE engineers
- Collaborated with infrastructure teams, developers, and IT and Engineering project leads
- Worked on front end (*Cordova*) and back end (*AWS IoT Core*) for a cross-platform mobile application to monitor activity for an indoor smoker developed by FirstBuild

PRESENTATIONS, PROJECTS, PUBLICATIONS

- **AR Developer for SnapChat AR T-Shirt Lens**, SIGGRAPH 2023
- M. Gottsacker, **R. Syamil**, P. Wisniewski, G. Bruder, C. Cruz-Neira and G. Welch, "Exploring Cues and Signaling to Improve Cross-Reality Interruptions," 2022 IEEE International Symposium on Mixed and Augmented Reality Adjunct (ISMAR-Adjunct), Singapore, Singapore, 2022, pp. 827-832, doi: 10.1109/ISMAR-Adjunct57072.2022.00179.
- **The Virtual Unwrapping Pipeline: Collaborating Within the Digital Humanities**, Nov 2019
2nd Place award, Kentucky Academy of Science Annual Meeting -- Berea, KY
- **Building a Successful Imaging Project In the Digital Humanities**, May 2019
History and Literature Master's Program at Columbia University -- Paris, France

LEADERSHIP and AWARDS

ORCGS Doctoral Fellowship | August 2020, University of Central Florida

Outstanding Senior in Computer Science | April 2020, University of Kentucky

Dean's Engineering Leadership Class | Spring 2020, University of Kentucky

ACM-W Student Chapter President | Aug 2018-May 2020, University of Kentucky

- Arranged speakers, organized social events, led and taught workshops with the goal to foster community and cultivate competitive applicants post-graduation
- Organized and oversaw first and second annual Computer Science Career Fair; raised \$3,000 between the two events
- Won \$4,650 in funding from competitive events organized by the University of Kentucky College of Engineering