

Christopher You

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EDUCATION

Ph.D. in Human Centered Computing , University of Florida in Gainesville Department of Computer and Information Science Engineering Advisor: Dr. Benjamin Lok	Aug 2020 – May 2025 GPA: 3.7
M.S. in Computer Science , University of Florida in Gainesville Department of Computer and Information Science Engineering Advisor: Dr. Benjamin Lok	Aug 2020 – Dec 2022 GPA: 3.7
B.S. in Computer Science , University of Minnesota-Twin Cities in Minneapolis College of Science and Engineering Advisor: Dr. Evan Suma Rosenberg	Sep 2018 - May 2020 GPA: 3.8

TECHNICAL SKILLS

Languages	Java, Python, C#, C, C++, OCaml, F#, x86_64 Assembly, CSS, HTML, JavaScript, PHP
Applications	Unity3D, OpenGL, MATLAB, SolidWorks, DialogFlow, UnrealEngine, React, UI/UX Design, wireframing, usability testing, AR/VR

PUBLICATIONS

Journal Proceedings

You, C., Venkatakrishnan, R., Venkatakrishnan, R., Han, Z., Lok, B., & Peck, T. C. A Sense of Urgency on the Sense of Agency: Challenges in Evaluating Agency and Embodiment in Virtual Reality. *TVCG-ISMAR 2024*.

You, C., Peck, T. C., Stuart, J., Gomes De Siqueira, A., & Lok, B. What My Bias Meant for My Embodiment: An Investigation on Virtual Embodiment in Desktop-Based Virtual Reality. *Frontiers in Virtual Reality*, 5, 1251564.

Conference Proceedings

You, C., Benda, W., Suma Rosenberg, E., Ragan, E., Lok, B., & Thomas, J. Strafing Gain: Redirecting Users One Diagonal Step at a Time. *2022 IEEE ISMAR*.

You, C. Ghosh, R., Maxim, A., Cooks, E., & Lok, B. To be presented September 2022. How does a virtual human earn your trust? Characteristics that impact willingness to self-disclose to virtual humans. *2022 ACM IVA*.

Posters & Extended Abstracts

Ghosh, R., Maxim, A., **You, C.**, & Lok, B. (2024, March). Real-Time Virtual Human for Promoting Clinical Trial Education and Recruitment. In *IEEE Virtual Reality Conference*.

Jurczyk, K., **You, C.**, Nourani, M., Gupta, M., Anthony, L., & Lok, B. (2021, October). Romadoro: Leveraging Nudge Techniques to Encourage Break-Taking. In *The Adjunct Publication of the 34th Annual ACM Symposium on User Interface Software and Technology* (pp. 66-69).

You, C., Suma Rosenberg, E., & Thomas, J. (2019, October). Strafing gain: A novel redirected walking technique. In *Symposium on Spatial User Interaction* (pp. 1-1).

EXPERIENCE

Research Assistant , Virtual Experience Research Group	Aug 2020 – Present
<ul style="list-style-type: none">Developing virtual human platform to help those with psychiatric disorders interact with their healthcare providers through use of practice with virtual providers through grant-funded work.Developing virtual human platform to increase clinical trials in minorities and older populations through grant-funded work.	

- Conducting user studies via interviews, surveys, ideation sessions, usability evaluation, statistics, and hypothesis testing especially in fields of user behavior and bias.
- Mentoring undergraduates in HIV PrEP projects with virtual humans and nursing student Patient Portal project

Research Assistant, Davidson DRiVE Lab

May 2022 – Aug 2022

- Mentored undergraduate students in VR/AR development via Unity in virtual embodiment, flight simulation, and UX/UI design
- Concurrently developing two applications via Unity for embodiment in VR to study implicit bias and sense of embodiment; publication in development

Software Development Engineer Intern, Amazon

May 2020 – Aug 2020

- Developed auto-complete feature for Amazon Help Services to be incorporated into services such as Alexa Help Domain and Amazon Customer Service Help Search.
- Utilized a knowledge graph to generate results by natural language processing, synonym mapping, SPARQL, and front-end UI development.

Research Assistant, Illusioneering Lab

Oct 2018 – May 2020

- Created virtual environments in Unity to prototype and study novel locomotion techniques in virtual reality.
- Worked with graduate students to conduct pilot tests for studies, participate in lab meetings, conduct qualitative and quantitative analysis, and assist with human studies in VR.

IT Intern, Wells Fargo

Jun 2019 – Aug 2019

- Co-developed and led project automating intern projects, reduced half hour activities to 15 seconds.
- Primarily integrated tech realizations in Python (GUI, back-end algorithms), JavaScript (web scrape), and CSS.

PERSONAL WORK

Co-founder, SignalTokens

Jun 2020 – Jul 2021

DEACTIVATED 2021 <https://signaltokens.org/>

- Co-founded and launched company *SignalTokens*, an application to help relieve the pressures associated with medical students applying for residency.
- Applicants can select programs from a limited number of tokens in order to convey interest.
- Program directors and coordinators can view students who have selected their program and can utilize this information to interview more students who are better aligned for their programs.

Lead developer, AR- TIPS

Feb 2020 – Fall 2023

Intellectual Property, Augmented Reality – Transjugular Intrahepatic Portosystemic Shunts (AR-TIPS)

- Developed a navigational AR program to be used by surgeons performing the TIPS procedure, filed for intellectual property at the University of Minnesota.
- Utilized a HoloLens to create an augmented overlay of catheters for medical staff to mitigate the risk and time of the TIPS procedure.
- Directional and angular magnitudes of needle are determined via TCP connection of flex sensor data, Arduino controllers, and target tracking of HoloLens.

FUNDING RECEIVED

Olson-Mitchell STEM Translational Communications Project Award, University of Florida. *Changing the Hegemonic Narrative: Diagnose Me as I Say, Not As You Assume*. Christopher You, Rakeem Robinson, and Benjamin Lok. 2021-2022.

Graduate School Preeminence Award, University of Florida. *Fellowship*. Christopher You, 2020 – 2025.

Undergraduate Research Opportunities Program Award, University of Minnesota. *Embodiment of a Female Avatar to Decrease Implicit Bias*. Christopher You, Evan Suma Rosenberg. 2020.

Undergraduate Research Opportunities Program Award, University of Minnesota. *Strafing Gain: A Novel Redirected Walking Technique*. Christopher You, Evan Suma Rosenberg. 2019.

SERVICES AND PROFESSIONAL ACTIVITIES

Journal Reviewer	International Journal of Human – Computer Studies (2023)
Conference Reviewer	IEEE ISMAR: International Symposium on Mixed and Augmented Reality (2024)
	IEEEVR: IEEE Conference on Virtual Reality and 3D User Interfaces (2022)
	IEEE ISMAR: International Symposium on Mixed and Augmented Reality (2022)
Student Volunteer	ACM Spatial User Interaction (2019)
	IEEE Virtual Reality (2024)
Undergraduate Research Panelist	University of Minnesota