Tiffany D. Do

Ph.D. CANDIDATE · COMPUTER SCIENCE (HCI)

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Education _ **University of Central Florida** Orlando, FL Ph.D. Computer Science 2020 - present Advisor: Dr. Rvan P. McMahan Research Interests: Virtual Agents, Human-Al Interactions, Virtual Reality and Augmented Reality **University of Texas at Dallas** Richardson, TX 2018 - 2019 M.S. COMPUTER SCIENCE **University of Texas at Dallas** Richardson, TX **B.S. COMPUTER SCIENCE** 2016 - 2018 Research Experience _____ 2023 **Ph.D. Research Intern**, Ability Team, HCAIX Group, Microsoft Research (MSR) 2020-Pres Graduate Research Assistant, eXtended Reality and Training (XRT) Lab, University of Central Florida 2018-2019 Undergraduate Research Assistant (REU), University of Texas at Dallas

CONFERENCE PROCEEDINGS

Publications ____

- 1. Alec G. Moore, **Tiffany D. Do**, Nicholas Ruozzi, and Ryan P. McMahan (2023). "Identifying Virtual Reality Users Across Domain-Specific Tasks: A Systematic Investigation of Tracked Features for Assembly." *In Proceedings of 2023 IEEE International Symposium on Mixed and Augmented Reality (ISMAR)*, 2023, pp. 1-10. Acceptance rate: 21.2%
- 2. Jacob Belga, **Tiffany D. Do**, Ryan Ghamandi, Ryan P. McMahan, Joseph J. LaViola Jr. (2022). "Carousel: Improving the Accuracy of Virtual Reality Assessments for Inspection Training Tasks." *In ACM Symposium on Virtual Reality Software and Technology (VRST)*, 2022, pp. 1-10. https://doi.org/10.1145/3562939.3565618. Acceptance rate: 26.7%
- 3. **Tiffany D. Do**, Mamtaj Akter, Zubin Choudhary, Roger Azevedo, and Ryan P. McMahan. (2022). "The Effects of an Embodied Pedagogical Agent's Synthetic Speech Accent on Learning Outcomes." *In Proceedings of the 2022 ACM International Conference on Multimodal Interaction (ICMI)*, 2022, pp. 1-9. https://doi.org/10.1145/3536221.3556587. Acceptance rate: 33%
- 4. **Tiffany D. Do**, Ryan P. McMahan, and Pamela J. Wisniewski. (2022). "A New Uncanny Valley? The Effects of Speech Fidelity and Human Listener Gender on Social Perceptions of a Virtual-Human Speaker." *In Proceedings of the 2022 CHI Conference on Human Factors in Computing Systems*, 2022, pp. 1-11. https://doi.org/10.1145/3491102.3517564. Acceptance rate: 24.7%
- 5. **Tiffany D. Do**, Seong Ioi Wang, Dylan S. Yu, Matthew G. McMillian, and Ryan P. McMahan. (2021). "Using Machine Learning to Predict Game Outcomes Based on Player-Champion Experience in League of Legends." *In Proceedings of 2021 International Conference on the Foundations of Digital Games (FDG)*, 2021, pp. 1-5. https://doi.org/10.1145/3472538.3472579
- 6. **Tiffany D. Do**, Joseph J. LaViola Jr., and Ryan P. McMahan. (2020). "The Effects of Object Shape, Fidelity, Color, and Luminance on Depth Perception in Handheld Mobile Augmented Reality." *In Proceedings of 2020 IEEE International Symposium on Mixed and Augmented Reality (ISMAR)*, 2020, pp. 64-72. https://doi.org/10.1109/ISMAR50242. 2020.00026. Acceptance rate: 28.8%
- 7. **Tiffany D. Do**, Dylan S. Yu, Salman Anwer, and Seong Ioi Wang. (2020). "Using Collaborative Filtering to Recommend Champions in League of Legends." *In Proceedings of 2020 IEEE Conference on Games (CoG)*, 2020, pp. 650-653. https://doi.org/10.1109/CoG47356.2020.9231735.

REFERED EXTENDED ABSTRACTS AND POSTERS

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- 1. **Tiffany D. Do** (2021). "Designing Virtual Pedagogical Agents and Mentors for Extended Reality". *In Proceedings of 2021 IEEE International Symposium on Mixed and Augmented Reality Adjunct (ISMAR-Adjunct)*, IEEE, 2021, pp. 486-489. https:doi.org/10.1109/ISMAR-Adjunct54149.2021.00112
- 2. **Tiffany D. Do**, Dylan S. Yu, Alyssa Katz, and Ryan P. McMahan. (2020). "Virtual Reality Training for Proper Recycling Behaviors". *In ICAT-EGVE 2020 International Conference on Artificial Reality and Telexistence and Eurographics Symposium on Virtual Environments Posters and Demos*, 2020, pp. 31-32. https://doi.org/10.2312/egve.20201284

Awards, Fellowships, & Grants _____

- 2022 Computer Science Merit Scholar (Paper Merit Award), University of Central Florida
- 2022 **Graduate Presentation Fellowship**, University of Central Florida
- 2022 **Doctoral Research Support Fellowship**, University of Central Florida
- 2020 Nominated: ECS Award for Excellence by a Graduate TA, University of Central Florida
- 2020 IEEE CIS Student Travel Grant, IEEE Computer Information Society
- 2020 CRA-WP Travel Grant, Computing Research Association Widening Participation
- 2016 2019 Academic Excellence Scholarship Honors (Full scholarship), University of Texas at Dallas \$72,953
 - 2018 Grace Hopper Scholarship, University of Texas at Dallas

Professional Experience _____

Microsoft Research (MSR)

Redmond, WA

Ph.D. Research Intern

May 2023 - Aug 2023

- Advised by Ed Cutrell, Martez Mott, and John Tang within the HCAIX (Human-Computing AI Experiences) Group at MSR
- Designed inclusive avatars for people with communication and mobility disabilities
- Used LLMs (GPT-4) to drive the affect and emotion of inclusive, expressive avatars
- Conducted a user study with adults with disabilities to improve AI-driven affective avatars

Axxess Technology Solutions

Dallas, TX

BACKEND ENGINEERING INTERN

May 2019 - Aug 2019

- C#.NET Developer for home healthcare software
- Developed an API in C#.NET for external clients to get/retrieve patient and prescription data
- Designed MySQL database tables for patient and prescription data

OnPoynt Aerial Solutions

Richardson, TX

FULL-STACK DEVELOPER INTERN

Aug 2018 - Dec 2018

- · Developed a cross platform mobile application for drone racing as a social network using Ionic framework
- Designed all UX in Adobe Experience Design for the application

PROFESSIONAL OUTREACH

2023	UCF Summer Undergraduate Research Fellowship (SURF), Fellowship Reviewer
2022	Girls Who Code @ UCF, Vice President, Founding member
2022	ACM Human Factors in Computing Systems (CHI), Student Volunteer
2020-2022	ACM-Women (ACM-W) at UCF, Mentor

Springer Virtual Reality (VIRE), ACM MM (Emergency Reviewer)