Tiffany D. Do

PhD Candidate · Computer Science (HCI)

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Education

University of Central Florida *Orlando, FL*

Ph.D. Computer Science *2020 - present*

- Advisor: Dr. Ryan P. McMahan
- Research Interests: Virtual agents, Virtual and Augmented Reality

University of Texas at Dallas *Richardson, TX*

M.S. Computer Science *2018 - 2019*

University of Texas at Dallas *Richardson, TX*

B.S. Computer Science *2016 - 2018*

Research Experience

2020-Pres **Graduate Research Assistant**, XRT Lab, University of Central Florida

2018-2019 **Undergraduate Research Assistant (REU)**, University of Texas at Dallas

2018-2019 **Undergraduate Research Assistant**, Translational Applications of Multiferoic Systems ERC

Publications

Conference Proceedings

1. **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." *To Appear in Proceedings of the 2022 ACM International Conference on Multimodal Interaction (ICMI)*, 2022, pp. 1-9. Acceptance rate: 33%

2. **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*, New Orleans, United States, 2022, pp. 1-11. `https://doi.org/10.1145/3491102.3517564`. Acceptance rate: 24.7%

3. **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)*, Montreal, Canada, 2021, pp. 1-5. `https://doi.org/10.1145/3472538.3472579`

4. **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)*, Porto de Galinhas, Brazil, 2020, pp. 64-72. `https://doi.org/10.1109/ISMAR50242.2020.00026`. Acceptance rate: 28.8%

5. **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)*, Osaka, Japan, 2020, pp. 650-653. `https://doi.org/10.1109/CoG47356.2020.9231735`.

Refereed Extended Abstracts and Posters

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, Bari, Italy, 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*, The Eurographics Association, Orlando, USA, 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
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

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.

Teaching Experience

July ’21 **UCF Camp Connect: Advanced Research Camp**, Graduate Advisor
Spring ’21 **CGS 3763 Operating Systems Concepts**, Graduate Teaching Assistant
Fall ’20 **COP 3502 Computer Science 1 in C**, Lab Instructor, Graduate Teaching Assistant
Spring ’20 **COP 3502 Computer Science 1 in C**, Lab Instructor, Graduate Teaching Assistant

Academic Service & Outreach

Peer Review

2022 **IEEE VR, ACM CHI (LBW), ACM MM**, **IEEE ISMAR**
2021 **Springer Virtual Reality (VIRE)**, **ACM MM (Emergency Reviewer)**

Professional Outreach

2022 **ACM Human Factors in Computing Systems (CHI)**, Student Volunteer
2020-2022 **ACM-Women (ACM-W) at UCF**, Mentor
2018-2021 **National Center for Women & IT (NCWIT)**, Aspirations in Computing Reviewer