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
2017-2018 **Undergraduate Research Assistant**, Translational Applications of Nanoscale Multiferoic Systems ERC

Publications

Conference Proceedings

1. **Tiffany D. Do**, Ryan P. McMahan, Pamela Wisniewski. (2022). "A New Uncanny Valley? The Effects of Speech Fidelity and Human Listener Gender on Social Perceptions of a Virtual-Human Speaker." *To Appear in Proceedings of the 2022 CHI Conference on Human Factors in Computing Systems*, New Orleans, United States, 2022, pp. 1-10. Acceptance Rate: 24.7%

2. **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

3. **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%

4. **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. Acceptance Rate: 42.5%

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`

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.

Awards, Fellowships, & Grants

2022	**Graduate Presentation Fellowship**, University of Central Florida	*$ 500*
	Doctoral Research Support Fellowship, University of Central Florida	*$ 750*
2020	**Nominated: ECS Award for Excellence by a Graduate TA**, University of Central Florida	
2020	**IEEE CIS Student Travel Grant**, IEEE Computer Information Society	*$ 150*
2020	**CRA-WP Travel Grant**, Computing Research Association - Widening Participation	*$ 337*
2016 - 2019	**Academic Excellence Scholarship Honors (Full scholarship)**, University of Texas at Dallas	*$ $72,953*

Presentations

Contributed Presentations

Tiffany D. Do. 2021. Designing Virtual Pedagogical Agents and Mentors for Extended Reality. Oral Presentation: IEEE International Symposium of Mixed and Augmented Reality (ISMAR), Bari, Italy (virtual).

Tiffany D. Do. 2021. Using Machine Learning to Predict Game Outcomes Based on Player-Champion Experience in League of Legends. Poster: ACM Foundations of Digital Games (FDG), Montreal, Canada (virtual).

Tiffany D. Do. 2020. Virtual Reality Training for Proper Recycling Behaviors. Poster: International Conference on Artificial Reality and Telexistence and Eurographics Symposium on Virtual Environments (ICAT-EGVE), Orlando, USA (virtual).

Tiffany D. Do. 2020. The Effects of Object Shape, Fidelity, Color, and Luminance on Depth Perception in Handheld Mobile Augmented Reality. Oral presentation: IEEE International Symposium of Mixed and Augmented Reality (ISMAR), Porto de Galinhas, Brazil (virtual).

Tiffany D. Do. 2020. Using Collaborative Filtering to Recommend Champions in League of Legends. Oral presentation: IEEE Conference on Games (CoG), Osaka, Japan (virtual).

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

Outreach

2020-2021 **ACM-Women (ACM-W)**, Mentor
2018-2021 **National Center for Women & Information Technology (NCWIT)**, AiC Reviewer

Peer Review

2022 **ACM Human Factors in Computing Systems (CHI) LBW**, External Reviewer
2022 **IEEE Virtual Reality (VR)**, External Reviewer
2021 **ACM Multimedia (ACMMM)**, Emergency Crash Reviewer
2021 **Springer Virtual Reality Journal (VIRE)**, Emergency Crash Reviewer