

# Tiffany D. Do

PHD CANDIDATE · COMPUTER SCIENCE (HCI)

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## Education

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### University of Central Florida

PH.D COMPUTER SCIENCE

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

Orlando, FL

2020 - present

### University of Texas at Dallas

M.S. COMPUTER SCIENCE

Richardson, TX

2018 - 2019

### University of Texas at Dallas

B.S. COMPUTER SCIENCE

Richardson, TX

2016 - 2018

## Research Experience

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- 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

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### CONFERENCE PROCEEDINGS

1. **Tiffany D. Do**, Ryan P. McMahan, 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." *To Appear in Proceedings of the 2022 CHI Conference on Human Factors in Computing Systems*, New Orleans, United States, 2022, pp. 1-11. Acceptance Rate: 24.7%
2. **Tiffany D. Do**, Seong loi 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 loi 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>

## Awards, Fellowships, & Grants

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2022	<b>Graduate Presentation Fellowship</b> , University of Central Florida	\$ 500
	<b>Doctoral Research Support Fellowship</b> , University of Central Florida	\$ 750
2020	<b>Nominated: ECS Award for Excellence by a Graduate TA</b> , University of Central Florida	
2020	<b>IEEE CIS Student Travel Grant</b> , IEEE Computer Information Society	\$ 150
2020	<b>CRA-WP Travel Grant</b> , Computing Research Association - Widening Participation	\$ 337
2016 - 2019	<b>Academic Excellence Scholarship Honors (Full scholarship)</b> , University of Texas at Dallas	\$ 72,953
2018	<b>Grace Hopper Scholarship</b> , University of Texas at Dallas	

## Professional Experience

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### 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.

## Presentations

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### 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

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

## Academic Service & Outreach

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### 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)**, External Reviewer

### PROFESSIONAL OUTREACH

- 2022 **ACM Human Factors in Computing Systems (CHI)**, Student Volunteer
- 2020-2021 **ACM-Women (ACM-W)**, Mentor
- 2018-2021 **National Center for Women & Information Technology (NCWIT)**, AiC Reviewer

### OTHER OUTREACH

- 2022-2023 **Esports at UCF**, Marketing Lead (Video)
- 2020-2023 **Esports at UCF**, Marketing Staff