

# Tiffany D. Do

PH.D. CANDIDATE · COMPUTER SCIENCE (HCI)

✉ [tiffanydo@knights.ucf.edu](mailto:tiffanydo@knights.ucf.edu) | 🏠 [zyrcant.github.io](https://zyrcant.github.io)

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

## Publications

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### 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 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>
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 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>.

### 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 **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

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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.

## Teaching Experience

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- 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

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### PEER REVIEW

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

### PROFESSIONAL OUTREACH

- 2022 **Girls Who Code @ UCF**, Vice President, Cofounder  
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 Volunteer