

## Fan YU

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### Education

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- University of Missouri (MU)**, Columbia, US 8/2019-Expected Graduation May 2023  
 PhD in School of Information Science & Learning Technologies, GPA: 3.95  
 Quantitative Research Certificate & Qualitative Research Methods
- Missouri State University**, Springfield, US 8/2015 - 05/2017  
 Graduate Certificate of Curriculum and Instruction (online-based study)  
 M.S. in Elementary Education Science (online-based study), GPA: 3.78
- Missouri State University**, Springfield, US 6/2015 - 05/2015  
 Exchange Student, GPA: 3.66
- University of Xi'an International Studies**, Xi'an, China 9/2011 - 05/2015  
 B.A. in English Education (TESOL), GPA: 3.24

### Research Experience

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**Information Experience Lab ([IE Lab](#))**, MU-Columbia, US 1/2020 – Present  
*Research Assistant*

- Work under the supervision of Dr. Isa Jahnke.
- Conduct User Experience (#UX) and learner experience design (#LX) studies for [clients](#).
- Design and improve online courses (e.g. a course for Risk-Based Assessment of Food Importation).
- Write usability test reports.

**Improving Engineering-Related Social Cognitions through Teaching Practices**, MU-Columbia, US 1/2020 – Present  
*Research Assistant*

- Work for an NSF funded project under the supervision of Dr. Rose M. Marra.
- Develop the surveys, then collect and analyze data to explore the effectiveness of social cognitive-based teaching practices on engineering students' self-efficacy and outcome expectations.
- Work on creating and improve the Faculty Learning Community (FLC) comprised of faculty in the College of Engineering, which aims to increase the participation of women in engineering through enhanced social cognitions which have been linked to career outcomes.
- Design training with team members to support faculty in designing and implementing teaching practices.
- Write publications.

**Technology-Enhanced Learning Lab ([TELL](#))**, MU-Columbia, US 8/2019 – 8/2020  
*Research Assistant*

- Worked under the supervision of Dr. Xinhao Xu.
- Created and improved the [Virtual Reality Online Orientation \(VRO2\)](#), a 3D Virtual Reality Learning Environment (VRLE) with OpenSimulator.
- Improved and facilitated [Virtual Reality Celebration](#) with OpenSimulator.

- Observed and recorded the behavior of participants, then collected and analyzed the qualitative and quantitative data.
- Experienced and provided feedback to an immersive 3D Virtual Reality Lab where engineering students are doing experiments.
- Writing research reports and articles, and updated news on TELL Lab website

## **Publications**

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- **Yu, F.** & Strobel, J. (Accepted). Work-in-Progress: Pre-college Teachers' Metaphorical Beliefs about Engineering. EDUCON2021 – IEEE Global Engineering Education Conference.
- Milord, J., **Yu, F.**, Orton, S., Marra., R., & Flores, L. Y. (Accepted). Impact of COVID transition to remote learning on engineering self-efficacy and outcome expectations. ASEE 2021 Virtual Conference.
- **Yu, F.**, Xu, X., Bueno Vesga, J., He, H., Sadanala, G. & Li, S. (2020). Online Orientation in Virtual Reality for Graduate Students: A Discussion of the Preliminary Results. In *Proceedings of EdMedia + Innovate Learning* (pp. 1271-1276). Online, The Netherlands: Association for the Advancement of Computing in Education (AACE). <https://www.learntechlib.org/primary/p/217444/>.
- Bueno Vesga, J., Xu, X., He, H., Sadanala, G., Li, S. & **Yu, F.** (2020). Technostress and Student's Intention to use VR for Learning. In D. Schmidt-Crawford (Ed.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 1005-1010). Online: Association for the Advancement of Computing in Education (AACE). <https://www.learntechlib.org/primary/p/215855/>
- Sadanala, G., Xu, X., He, H., Bueno, J., **Yu, F.** & Li, S. (2020). Perseverance and Engagement for the Success in a 3D Virtual Reality Learning Environment – A Cube Quest Activity. In D. Schmidt-Crawford (Ed.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 1018-1023). Online: Association for the Advancement of Computing in Education (AACE). <https://www.learntechlib.org/primary/p/215857/>
- Li, S., Xu, X., Bueno, J., He, H., Sadanala, G. & **Yu, F.** (2020). Through the Lens of the Limited-Capacity Assumption in Cognitive Theory of Multimedia Learning (CTML): A Discussion on the Desktop Virtual Reality (VR) Online Orientation. In D. Schmidt-Crawford (Ed.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 510-516). Online: Association for the Advancement of Computing in Education (AACE). <https://www.learntechlib.org/primary/p/215790/>

## **Conference Presentations**

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- **Yu, F.**, Xu, X., Bueno Vesga, J., Xu, X., He, H., Sadanala, & G., Li, S. (2020). A 3D VR-enabled Online Orientation for New Graduate Students: Do They Learn Anything? Presented at AECT 2020 International Convention.

## **Professional Service**

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### **Peer Review**

2020                      Reviewer of 9 manuscripts for the American Educational Research Association (Conference)

## **Work Experience**

**CollegePre Group, Beijing, China**

07/2016 - 08/2019

### *Educational Products Developer for K-12 students/Research Group Member*

- Assisted the Product Development Manager to work on designing a series of project-based learning courses for interdisciplinary STEAM subjects based on CEFR and CCSS, which are sold to institutions and used by young Chinese EFL learners.
- Supported the process of material sourcing/development and prototyping for the categorization of products.
- Designed the framework and contents of paper resources used by teachers and students including textbooks, workbooks, assessments, and lesson plans.
- Designed the wireframe and contents of digital resources; collaborated with developer team and conducted usability tests for digital products including online courses, in-class interactive games, mobile apps, and teacher/parents online center.

### *Sesame Street English Project/Group Leader*

- Cooperated with Sesame Workshop to improve/adjust the lesson structures of the textbooks introduced from the U.S. to classes in China.
- Designed paper and digital resources for short curriculum such as the courses of Drama, Reading, Art, and Value Class Series; integrated them into the *Sesame Street* courses; they widely used across 200 institutions (all courses are published by the name of company).

### *Teacher Training Group Member*

- Administered and designed the content of teacher training to help teachers/the leader of institutions understand the products made by my company (e.g. *Sesame Street English* course).
- Assisted teachers in using paper and digital resources.
- Collected feedback from teachers, and then revised the products company's products.

**New Oriental Education, Beijing, China**

06/2015-06/2016

### *English Teacher for K12*

- Taught English in class, including phonics, reading and various reading strategies.
- Collected and analyzed the data from the teacher evaluation system and students' performances.

## **Volunteer Experience**

**Chinese Language Teacher, Columbia, US**

08/2019 - Present

### *Volunteer Teacher*

- Teach Chinese to students who are learning Chinese as a second language.
- Cooperate with other teachers to prepared lesson plans and teaching aids.

**AECT Conference 2019, Las Vegas, US**

10/2019

### *Volunteer Supervisor in Equipment Group*

- Ensured proper functioning of equipment and adequate technical support for the presenters.
- Trained and supervised volunteers for providing technical supporting to presenters.
- Collaborated with other volunteers to keep presentations running successfully.

## **Skills**

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- Familiar with RStudio (quantitative data analysis)
- Solidworks (3D Modeling)
- Chinese - Mandarin (Native); English proficiency
- Python (Intro)

## **Honors**

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- 2014, Outstanding Volunteer at Xi'an International Studies University
- 2012 & 2013, Second-Class Scholarship of Xi'an International Studies University
- 2013, "Merit Students" of Xi'an International Studies University
- 2012, "Best Debater" in 3rd Chinese Debating Contest of XISU

## **Campus Involvement**

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### **Missouri State University, Springfield, US**

2015

- Bilingual host of 2015 Chinese Lunar New Year banquet
- Traditional Chinese dancer in the International Banquet
- Volunteer for the International Tour

### **University of Xi'an Foreign Studies, China**

2011-2014

- Organizer for a variety of class and school events, such as drama rehearsals and performed for Freshman and Culture Evening
- Student leader in the PR Dept. of the School of English Education, collaborating with local primary and middle schools to teach an English program
- Debater Member/Leader for a couple of debate contests on school, inter-school and international levels