

## Jing Wen, Assistant Professor

*School of Building Construction, Georgia Institute of Technology*

Tel: 404-894-7103

Room 231, John and Joyce Caddell Building

Email: jing.wen@design.gatech.edu

280 Ferst Drive NW, Atlanta, GA 30332.

### EDUCATION

**Doctor of Philosophy in Design, Construction, and Planning** Aug. 2022

Rinker School of Construction Management, University of Florida, Gainesville, FL

**Master of Science in Civil Engineering** May 2018

Department of Civil, Environmental and Geodetic Engineering, The Ohio State University, OH

**Bachelor of Management in Engineering Management** Jun. 2016

School of Economics and Management, Hebei University of Technology, China

### EXPERIENCE

**Assistant Professor** Aug. 2022 - Present

#### Research Interest:

Her research interest focuses on investigating the implications of human-technology interactions within the construction management domain. Specifically, she is interested in exploring the applications of emerging technologies to promote inclusion and diversity in construction and shape the future of construction education and work.

#### Teaching Responsibilities:

- *BC 4050: Building Information Modeling*
- *BC 8803: Digital Twins for the Built Environment*

**Graduate Research & Teaching Assistant** Aug. 2018 – Aug. 2022

Rinker School of Construction Management, University of Florida, Gainesville, FL

#### Research Projects:

- *“iVisit: Using Virtual Humans in 360-Degree Immersive Digital Sites to Practice Communication Skills within Complex Spatiotemporal Contexts”*  
Funded by the National Science Foundation (NSF) (2018 – 2022)
- *“VR-Electricians: Using Immersive Storytelling for Attracting Students to the Electrical Trades”*  
Funded by ELECTRI International (2020 – 2021)

#### Teaching Responsibilities:

- *BCN3252 Graphic Communication in Construction*
- *BCN4252 Introduction to Building Information Modeling (BIM)*

#### Proposal Preparation:

- *“VR-Electricians: Using Immersive Storytelling for Attracting Students to the Electrical Trades”*  
Funded by ELECTRI International (2020 – 2021)
  - ❖ Provided significant contribution in the conceptualization, development, and preparation

**Grader** Sep. 2017– Jun. 2018

Department of Civil, Environmental and Geodetic Engineering, The Ohio State University, OH

- CIVILEN 2810 – Construction Engineering and Management: An Introduction

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**Intern – Assistant Project Manager**

Project ‘Hengdadijing’ in Xingtai, China

Mar. 2016 – Jun. 2016

## MENTORING EXPERIENCE

### Research Mentor

2018-Present

Rinker School of Construction Management, University of Florida

- Advised students on how to conduct scientific research
- Improved their manuscripts for publication in peer-reviewed venues

Mentored Students:

- **Shrishail Zalake** (MSc Computer Science – University of Florida) 2020 & 2021  
*Mentoring project:* ‘iVisit: Using Virtual Humans in 360-Degree Immersive Digital Sites to Practice Communication Skills within Complex Spatiotemporal Contexts’ and ‘Effects of different types of virtual human gestures on learning in 3D environment’
- **Sambhav Jain** (MSc Construction Management – University of Florida) 2020  
*Outcome:* **Jing Wen**, Masoud Gheisari, Sambhav Jain, Yuanxin Zhang, and R. Edward Minchin. 2021. Using Cloud-based Augmented Reality to 3D-enable the 2D Drawings of AISC Steel Sculpture: A Plan-reading Educational Experiment. *ASCE Journal of Civil Engineering Education*. 147/3: 1-11. [https://doi.org/10.1061/\(ASCE\)EI.2643-9115.0000046](https://doi.org/10.1061/(ASCE)EI.2643-9115.0000046) .
- **Kelvin Dover** (BSc Computer Science – University of Florida) 2018-2019  
*Mentoring project:* ‘iVisit: Using Virtual Humans in 360-Degree Immersive Digital Sites to Practice Communication Skills within Complex Spatiotemporal Contexts’

### Associated Schools of Construction Student Competition – Region 2

2021

Peachtree City (Atlanta), GA

- Assisted the Rinker coaches with providing technical guidance to students for the competition

## PUBLICATIONS

### Research Reports

- R1. **Jing Wen**, and Masoud Gheisari. 2021. VR-Electricians: Using Immersive Storytelling for Attracting Students to the Electrical Trades. *Report for the ELECTRI International*. 1-17. <https://electri.org/product/vr-electricians-using-immersive-storytelling-for-attracting-students-to-the-electrical-trades/>

### Refereed Journals

- J1. **Jing Wen**, and Masoud Gheisari. 2022. iVisit-Communicate: Using Virtual Humans to Practice Communication Skills in 360-degree Virtual Field Trips. *Invited by Journal of Computing in Civil Engineering (JCCE)*. Under review.
- J2. Ricardo Eiris, **Jing Wen**, and Masoud Gheisari. 2021. iVisit-Collaborate: Collaborative Problem-Solving in Multiuser 360-Degree Panoramic Site Visits. *Elsevier Journal of Computers & Education*. 177: 104365. <https://doi.org/10.1016/j.compedu.2021.104365>
- J3. **Jing Wen**, and Masoud Gheisari. 2021. VR-Electricians: Immersive Storytelling for Attracting Students to the Electrical Construction Industry. *Elsevier Journal of Advanced Engineering Informatics, Special Issue on Emerging Learning Technologies for Future of Work and Education in Engineering*. 50: 1-25. <https://doi.org/10.1016/j.aei.2021.101411>
- J4. Ricardo Eiris, **Jing Wen**, and Masoud Gheisari. 2021. Influence of Virtual Human Appearance Fidelity within Building Science Storytelling Educational Applications. *ASCE Journal of*

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*Architectural Engineering, Special Issue on The Future of Education in Architectural Engineering.* 27/4: 1-16. [https://doi.org/10.1061/\(ASCE\)AE.1943-5568.0000510](https://doi.org/10.1061/(ASCE)AE.1943-5568.0000510)

- J5. Ricardo Eiris, **Jing Wen**, and Masoud Gheisari. 2021. iVisit – Practicing Problem-Solving in 360-Degree Panoramic Site Visits led by Virtual Humans. *Elsevier Journal of Automation in Construction*. 128: 1-15. <https://doi.org/10.1016/j.autcon.2021.103754>
- J6. **Jing Wen**, Masoud Gheisari, Sambhav Jain, Yuanxin Zhang, and R. Edward Minchin. 2021. Using Cloud-based Augmented Reality to 3D-enable the 2D Drawings of AISC Steel Sculpture: A Plan-reading Educational Experiment. *ASCE Journal of Civil Engineering Education*. 147/3: 1-11. [https://doi.org/10.1061/\(ASCE\)EI.2643-9115.0000046](https://doi.org/10.1061/(ASCE)EI.2643-9115.0000046)
- J7. **Jing Wen**, and Masoud Gheisari. 2020. Using Virtual Reality to Facilitate Communication in the AEC Domain: A Systematic Review. *Emerald Journal of Construction Innovation: Information, Process, Management, Special Issue on Industry 4.0: Disrupting the Construction and Civil Engineering Supply Chain*. 20/3: 509-542. <https://doi.org/10.1108/CI-11-2019-0122>

### Refereed Conference Papers

- C1. **Jing Wen**, and Masoud Gheisari. 2022. Influence of Pedagogical Agent Deictic Gestures on Construction Management Students Learning within a 360-Degree Virtual Field Trip. *Proceedings of the ASC 58th Annual International Conference*. In Press.
- C2. **Jing Wen**, and Masoud Gheisari. 2022. Conversational Virtual Humans on 360-degree Virtual Sites: Guiding Students on a Site Visit to a Mechanical Room. *Proceedings of the 2022 ASCE Construction Research Congress (CRC)*. 140-149. <https://doi.org/10.1061/9780784483985.015>
- C3. **Jing Wen**, and Masoud Gheisari. 2021. Using Immersive Storytelling to Attract Students to the Construction Field. *Proceedings of the 2021 ASCE International Conference on Computing in Civil Engineering (i3CE)*. In Press.
- C4. **Jing Wen**, and Masoud Gheisari. 2020. A Review of Virtual Field Trip Applications in Construction Education. *Proceedings of the 2020 ASCE Construction Research Congress (CRC)*. 782-790. <https://doi.org/10.1061/9780784482872.085>
- C5. Ricardo Eiris, **Jing Wen**, and Masoud Gheisari. 2020. iVisit: Digital Interactive Construction Site Visits Using 360-Degree Panoramas and Virtual Humans. *Proceedings of the 2020 ASCE Construction Research Congress (CRC)*. 1106-1116. <https://doi.org/10.1061/9780784482865.117>
- C6. **Jing Wen**, Jin Rong Yang, Michael Parke, Adrian Hadipriono Tan, and Fabian Hadipriono Tan. 2018. A Multimedia User-experience System with 3-D Simulation for the Construction Process of Nanwang Water Diversion Pivotal Project on China's Grand Canal. *Proceedings of the 2018 ASEE Annual Conference & Exposition*. <https://doi.org/10.18260/1-2--29703>

### Posters

- P1. **Jing Wen**, and Masoud Gheisari. 2022. VR-Women: Immersive Storytelling Experience to Attract Females to Construction Educational Programs. *The Annual Associated Schools of Construction International Conference*, April 22, Atlanta, GA.
- P2. **Jing Wen**, and Masoud Gheisari. 2019. A Systematic Review of Virtual and Mixed Reality to Facilitate Communication in AEC Domain. *University of Florida Graduate Student Research Day 2019*, April 2, Gainesville, FL.
- P3. **Jing Wen**, and Masoud Gheisari. 2019. A Systematic Review of Virtual and Mixed Reality to Facilitate Communication in AEC Domain. *Department of Design, Construction, and Planning Research Symposium*, March 21, Gainesville, FL.

## TALKS

### Invited Talks (Guest Lectures)

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- T1. **Jing Wen.** 2022. Assessing the Impact and Use of Immersive Storytelling in Attracting Female Students to Construction Education using Social Cognitive Career Theory. *PhD Seminar.* McWhorter School of Building Science, Auburn University
- T2. **Jing Wen.** 2022. Introduction to Building Information Modeling in Construction. *BCN1251C Construction Drawing.* Rinker School of Construction Management, University of Florida
- T3. **Jing Wen.** 2021. Introduction to Building Information Modeling in Construction. *BCN1251C Construction Drawing.* Rinker School of Construction Management, University of Florida
- T4. **Jing Wen.** 2021. Introduction to Computers. *BCN3252 Graphic Communication in Construction.* Rinker School of Construction Management, University of Florida
- T5. **Jing Wen.** 2020. Introduction to Building Information Modeling in Construction. *BCN1251C Construction Drawing.* Rinker School of Construction Management, University of Florida
- T6. **Jing Wen.** 2020. Introduction to Computers. *BCN3252 Graphic Communication in Construction.* Rinker School of Construction Management, University of Florida

### Conference Presentations

- T7. **Jing Wen.** 2022. Influence of Pedagogical Agent Deictic Gestures on Construction Management Students Learning within a 360-Degree Virtual Field Trip. *Proceedings of the ASC 58th Annual International Conference. In Press.*
- T8. **Jing Wen.** 2022. Conversational Virtual Humans on 360-degree Virtual Sites: Guiding Students on a Site Visit to a Mechanical Room. *Proceedings of the 2022 ASCE Construction Research Congress (CRC).* 140-149. <https://doi.org/10.1061/9780784483985.015>
- T9. **Jing Wen.** 2021. Using Immersive Storytelling to Attract Students to the Construction Field. *Proceedings of the 2021 ASCE International Conference on Computing in Civil Engineering (i3CE). In Press.*
- T10. **Jing Wen.** 2020. A Review of Virtual Field Trip Applications in Construction Education. *Proceedings of the 2020 ASCE Construction Research Congress (CRC).* 782-790. <https://doi.org/10.1061/9780784482872.085>

## AWARDS

**2021 Outstanding International Student Award,** University of Florida

- This award recognizes the exceptional contributions of international students to UF, where aspects of academic achievements and other ways in which these students have distinguished themselves and made a substantial impact are considered.
- Each college may nominate up to ten students to receive this award.

## ACADEMIC SERVICE

### Journal Reviewer

<i>ASCE</i> Journal of Management in Engineering	2021-Present
<i>Emerald</i> Journal of Engineering, Construction, and Architectural Management	2021-Present
<i>ASCE</i> Journal of Construction Engineering and Management	2021-Present

### Conference Reviewer

<i>ASC</i> Annual Associated Schools of Construction International Conference, Atlanta, Georgia	2022
<i>ASCE</i> Construction Research Congress (CRC), Arlington, VA	2021
<i>ASCE</i> Construction Research Congress (CRC), Tempe, AZ	2019

### Volunteering (Rinker Representative)

Archer Elementary School Career Day, Alachua, FL, US	2019
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## **Affiliations**

*American Society of Civil Engineering (ASCE), Student Member*

*ASCE Visualization, Information Modeling, and Simulation (VIMS) Committee, Student Member*

*ASCE Education Committee, Student Member*