

IDRIS JEELANI

Rinker Assistant Professor
M.E. Rinker, Sr. School of Construction
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EDUCATION

PhD	North Carolina State University , Raleigh, NC, USA <i>Civil Engineering</i> <i>Dissertation: "Improving Construction Safety Performance Using Visual Data Analytics"</i>	2019
MS	North Carolina State University , Raleigh, NC, USA <i>Civil Engineering</i> <i>Thesis: "Personalized Hazard Recognition Training for Workers"</i>	2016
B.Tech	National Institute of Technology (NIT) , Silchar, India <i>Civil Engineering</i>	2011

ACADEMIC EXPERIENCE

Assistant Professor	Aug 2019 – present M.E. Rinker, Sr. School of Construction Management, University of Florida
Instructor NCSU Concrete School (Extension Services)	2016- 2019 Dept. of Civil, Construction and Environmental Engineering, North Carolina State University
Research Assistant	2014- 2019 Dept. of Civil, Construction and Environmental Engineering, North Carolina State University
Graduate Teaching Assistant	2016- 2018 Dept. of Civil, Construction and Environmental Engineering, North Carolina State University

SELECTED HONORS AND AWARDS

- 2017 Best Paper Award: ASCE Journal of Construction Engineering & Management (JCEM)
- Best Poster Award (second place) at Construction Research Congress (CRC), 2018
- Nominated for the ASCE 2017 Norman Medal Award
- Project Management Institute (PMI) North Carolina Chapter Scholarship Award, 2018
- Thomas G Coffey Award, North Carolina State University, 2016
- CCEE Graduate Scholarship Award, North Carolina State University, 2015
- GSA North Carolina State University Travel Award 2017

PUBLICATIONS

Refereed Journal Publications

(Published)

- **Jeelani Idris**, Albert Alex, Han Kevin (2019). “Are Visual Search Patterns Predictive of Hazard Recognition Performance? Empirical Investigation Using Eye-tracking Technology” *ASCE Journal of Construction Engineering & Management*, 145 (1)
- **Jeelani Idris**, Han Kevin, Albert Alex (2018). “Automating and Scaling Personalized Safety Training using Eye-tracking Data” *Automation in Construction*, 93, p. 63-77
- **Jeelani Idris**, Albert Alex, Azevedo Roger (2016). “Development & Testing of personalized Hazard-Recognition Training Intervention” *ASCE Journal of Construction Engineering & Management*, 143(5), p. 4016120
 ****Awarded 2017 JCEM Best Paper****
 ****Nominated for 2017 Norman Medal****
- **Jeelani Idris**, Albert Alex, Gambetese John (2016). “Why do Construction Hazards Remain Unrecognized?” *ASCE Journal of Construction Engineering & Management*, p. 4016128
 ****ASCE Top Engineering articles November 2017****
 ****Most Downloaded Paper JCEM Aug 2017 to November 2017****

(Accepted/Under Review)

- **Jeelani Idris**, Albert Alex, Han Kevin (2019). “Development of Virtual Reality and Stereo-panoramic Environments for Construction Safety Training” *Journal of Engineering, Construction and Architectural Management*
- Albert Alex, **Jeelani Idris**, Han Kevin (2019). “Developing Hazard Recognition Skill among the Next-Generation of Construction Engineers and Managers” *Journal of Construction Engineering and Management*,
- **Jeelani Idris**, Han Kevin, Albert Alex (2019). “Vision-based Real-time Worker Localization & Hazard Detection for Construction” *Journal of Computing in Civil Engineering*

Dissertation/Thesis

- **Jeelani Idris** (2019). Improving Safety Performance in Construction Using Visual Data Analytics and Virtual Reality” *North Carolina State University Thesis Repository*
- **Jeelani Idris** (2016). “Personalized Hazard Recognition Training for Construction Workers” *North Carolina State University Thesis Repository*

Peer Reviewed Conference Proceedings

- **Jeelani, Idris**, et al. (2019) "Real-Time Hazard Proximity Detection—Localization of Workers Using Visual Data." *Computing in Civil Engineering 2019: Data, Sensing, and Analytics*. Reston, VA: American Society of Civil Engineers, 2019. 281-289.

- **Jeelani Idris**, Khashayar Asadi, Han Kevin, Albert Alex (2019). “Real-World Mapping of Gaze Fixations Using Instance Segmentation for Road Construction Safety Applications” *98th Annual Meeting, Transportation Research Board (TRB), Washington, D.C*
- **Jeelani Idris**, Han Kevin, Albert Alex (2018). “Automating Analysis of Construction Workers’ Viewing Patterns for Personalized Safety Training and Management” *35th International Symposium on Automation and Robotics in Construction (ISARC 2018), Berlin, Germany*
- **Jeelani Idris**, Han Kevin, Albert Alex (2018). “Scaling Personalized Safety Training using Automated Feedback Generation” *Construction Research Congress 2018 New Orleans, Louisiana*
- **Jeelani Idris**, Han Kevin, Albert Alex (2017) “Development of Immersive Augmented Reality Training Environment for Construction Workers” *2017 International Workshop on Computing in Civil Engineering, Seattle WA*

INDUSTRY EXPERIENCE

Tito Contractors Inc , Washington DC, USA <i>Assistant Project Manager/Estimator (Intern)</i>	Summer 2015
Shapoorji Pallonji Engineering & Construction , Bangalore, India <i>Sr. Engineer (Contracts)</i>	Aug ‘11 – Oct’13
National Hydroelectric Power Corp. Ltd, Srinagar, India <i>Civil Engineering Intern</i>	Summer 2010

PRESENTATIONS AND LECTURES

Guest Lectures

- Design of Wood Connections CE-466 *Building Const. Engineering* Oct 24 2017
- Safe Scaffolding Operation, CE-466 *Building Const. Engineering*. Nov. 3, 2016

Conference Presentations

- Scaling Personalized Safety Training using Automated Feedback Generation. Construction Research Congress 2018 April 2–4, 2018, New Orleans, Louisiana.
- Development of Immersive Augmented Reality Training Environment for Construction Workers. 2017 International Workshop on Computing in Civil Engineering, Seattle WA.

Others

- *Poster Presentation*; “Hazard Recognition-A Visual Perspective” Construction Research Congress 2017, New Orleans, LA ****Awarded Second Best Poster****
- *Poster Presentation*; “Why do hazards remain unrecognized?”, NC State annual Graduate Research Symposium 2017, Raleigh, NC
- *Research Presentation*; “Personalized Hazard Recognition Training”, Graduate Student Advisory Committee, May 2016.

- *Industry Presentation*; Root cause analysis for delayed and over budget high-rise construction project, SP Centre, Mumbai, 2012. ****Awarded Best Presentation****

EXTRA-CURRICULAR ACHIEVEMENTS

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| • Captain, Intramural Soccer Team, North Carolina State University | 2017-2018 |
| • Player, University Soccer Team, NIT Silchar | 2008-2011 |
| • Silver Medal in 800m at NIT Silchar Annual Athlete Meet | 2009 |
| • Silver Medal in 4 X100m relay, NIT Silchar Annual Athlete Meet | 2009 |
| • 1st place in Voice of Ignites, (Debate) at NIT Silchar | 2009 |
| • Bronze Medal in 4 X 100m relay at NIT Silchar Annual Athlete Meet | 2008 |

PROFESSIONAL AFFILIATIONS

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| • Member, American Concrete Institute (ACI) | 2016-Present |
| • Member, Peer Review Committee, NIT Silchar | 2016-Present |
| • Student member, American Society of Civil Engineers (ASCE) | 2015-Present |
| • Executive member, Indian Society for Technical Education (ISTE) | 2008-2010 |

OTHER SKILLS

Applications: Autodesk BIM products (Revit & Navisworks), AutoCAD, Primavera P6

Programming: C++, C#, Python, VB, SQL, PHP

Deep learning Frameworks: Tensor Flow

Data Analysis: R, SPSS, Matlab

VR Applications: Unity-3D, Unreal Engine, 3D-Max

Operating Systems: Windows, Linux (Ubuntu, Fedora)