

IDRIS JEELANI

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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

Journal Publications

- **Jeelani Idris**, Han Kevin, Albert Alex (*coming soon*). “Real-time Vision-based Worker Localization & Hazard Detection for Construction” *Automation in Construction*
- Albert, A., **Jeelani, I.**, & Han, K. (2020). Developing hazard recognition skill among the next-generation of construction professionals. *Construction Management and Economics*, 1-16.
- **Jeelani, I.**, Han, K., & Albert, A. (2020). Development of virtual reality and stereo-panoramic environments for construction safety training. *Engineering, Construction and Architectural Management*. 2020 Apr 27
- **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

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**, Han Kevin, Albert Alex (2020). “Improving Safety Performance in Construction Using Visual Data Analytics and Virtual Reality” *Construction Research Congress 2020, Phoenix, Arizona*
- **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

PROFESSIONAL AFFILIATIONS

1. *Member*: American Society of Civil Engineers(ASCE), American Concrete Institute (ACI)
2. *Reviewer*: Automation in Construction; Engineering, Construction and Architectural Management, Construction Research Congress (CRC); Associated Schools of Construction (ASC)