

Alex Albert
Curriculum Vitae

Assistant Professor
Dept. of Civil, Construction and Environmental Engineering
North Carolina State University, Raleigh

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EDUCATION

PhD. (2013) Civil Engineering (Construction Engineering and Management), University of Colorado at Boulder.

Masters of (2010) Structural Engineering, Lehigh University, Pennsylvania.

B.E. (2007) Civil Engineering, Anna University, Chennai.

ACADEMIC EXPERIENCE

1. **Assistant Professor** (08/2014 – to date) – Department of Civil, Construction and Environmental Engineering, North Carolina State University, Raleigh
2. **Research Associate** (01/2014 – 08/2014) – Department of Civil, Environmental, and Architectural Engineering, University of Colorado, Boulder
3. **Research Assistant** (08/2010 – 08/2014) – Department of Civil, Environmental, and Architectural Engineering, University of Colorado, Boulder
4. **Teaching Assistant** (08/2013 – 12/2013) – *Construction Equipment and Methods*, Department of Civil, Environmental, and Architectural Engineering, University of Colorado, Boulder
5. **Teaching Assistant** (08/2012 – 12/2012) – *Introduction to Construction*, Department of Civil, Environmental, and Architectural Engineering, University of Colorado, Boulder.

AWARDS AND HONORS

1. **Outstanding Reviewer (2016)**, Journal of Construction and Engineering, American Society of Civil Engineers (ASCE).
2. **Outstanding Reviewer (2015)**, Journal of Construction and Engineering, American Society of Civil Engineers (ASCE).
3. **Nominee for Outstanding Graduate Mentor Award (2016)**, Graduate School, North Carolina State University.
4. **Thank a Teacher Program (2016)** recognition for teaching excellence (CE 466: Building Construction Engineering), Office of Faculty Development, NC State University.
5. **Thank a Teacher Program (2015)** recognition for teaching excellence (CE 761: Design of Temporary Structures), Office of Faculty Development, NC State University.
6. **New Scholar (2015)**, Construction Industry Institute (CII)
7. **Second Best Paper Award (2014)**, Construction Research Congress (CRC), Atlanta, GA.
8. **Best Paper Award (2013)**, American Society of Engineering Education (ASEE) – 120th Annual Conference & Exposition, Atlanta, GA.
9. **Best Paper Award (2013)**, International Conference for Research and Innovation and Building Construction, (CIB) W099 Conference, Singapore.
10. **Research Assistantship (2010)**, Dept. of Civil, Environmental, and Architectural Engineering, University of Colorado, Boulder.

11. **Atkinson Construction Travel Grant (2011)**, Canadian Society of Civil Engineering, Ottawa, Canada.
12. **Dean's Office Graduate Student Travel Grant**, Construction Research Congress, Purdue University, West Lafayette.

PUBLICATIONS

Articles in refereed journals: Published/ Accepted

1. Zuluaga, C.M, and **Albert, A.** (2017) "Preventing falls: Choosing compatible Fall Protection Supplementary Devices (FPSD) for bridge maintenance work using virtual prototyping." *Safety Science*, in-press.
2. **Albert, A.**, Hallowell, M.R. and Kleiner B.M. (2017) "Empirical measurement and improvement of hazard recognition skill." *Safety Science*, 93(1), 1-8.
3. Tixer, J. P. A., **Albert, A.**, and Hallowell, M.R. (2017) "Proposing and validating a new way of construction hazard recognition training in academia: A mixed-method approach" *Practice Periodical on Structural Design and Construction*, ASCE, (accepted).
4. **Albert, A.** and Hallowell, M.R. (2017) "Modeling the role of social networks on hazard recognition and communication." *Practice Periodical on Structural Design and Construction*, ASCE, (accepted).
5. Jeelani, I., **Albert, A.**, Gambatese J. (2016). "Why do Construction Hazards Remain Unrecognized at the Work Interface.?" *J. Constr. Eng. Manage.*, 04016128.
6. Jeelani, I., **Albert, A.**, Azevedo, R., Jaselskis, E. J. (2016). "Development and Testing of a Personalized Hazard-Recognition Training Intervention." *J. Constr. Eng. Manage.*, 04016120.
7. Namian, M., **Albert, A.**, Zuluaga, C. M., Jaselskis, E. J. (2016). "Improving Hazard-Recognition Performance and Safety Training Outcomes: Integrating Strategies for Training Transfer." *J. Constr. Eng. Manage.*, 04016048.
8. Namian, M., **Albert, A.**, Zuluaga, C. M., Behm, B. (2016). "Role of Safety Training: Impact on Hazard Recognition and Safety Risk Perception." *J. Constr. Eng. Manage.*, in press.
9. Arroyo, P., Fuenzalida, C., **Albert, A.**, Hallowell, M. R. (2016). "Collaborating in Decision Making of Sustainable Building Design: An Experimental Study Comparing CBA and WRC methods" *Energy and Buildings*, in press.
10. **Albert, A.**, Hallowell, M.R., Lingard, H., and Kleiner B.M. (2015) "Multiple baseline testing: An experimental method for drawing causal inferences in construction engineering and management research" *Journal of Construction Engineering and management*, ASCE, 141(7), 04015012-1to 04015012-13.
11. **Albert, A.**, Hallowell, M.R. and Kleiner B.M. (2014) "Enhancing construction hazard recognition and communication with energy-based cognitive mnemonics and safety meeting maturity model: A multiple baseline study." *Journal of Construction Engineering and management*, ASCE, 140(2), 04013042-1 to 04013042-12.
12. **Albert, A.**, and Hallowell, M.R. (2013) "Safety risk assessment for transmission and distribution line work." *Safety Science*, 51(1), 118-126.
13. **Albert, A.** and Hallowell, M.R. (2013) "Revamping occupational safety and health training: Integrating andragogical principles for the adult learner." *Australasian Journal of Construction Economics and Building*, 13(1), 128-140
14. **Albert, A.**, Hallowell, M.R. and Kleiner B.M. (2014) "Emerging Strategies for Construction Safety and Health Hazard Recognition." *Journal of Safety Health and Environmental Research*, 10(2), 152-161.
15. **Albert, A.**, Hallowell, M.R., Kleiner B.M Chen, Ao., and Golparvar-Fard, M. (2014) "Enhancing construction hazard recognition with high fidelity augmented virtuality" *Journal of Construction Engineering and management*, 140(7), ASCE, 04014024

16. **Albert, A.**, Hallowell, M.R. and Kleiner B.M. (2014). "Experimental Field Testing of a Real-Time Construction Hazard Identification and Transmission Technique" *Construction Management and Economics*, 32(10), 1000-1016.
17. Tixer, J. P. A., Hallowell, M.R., **Albert, A.**, Boven, L.V., and Kleiner B.M. (2014) "Psychological antecedents of risk taking behavior in construction" *Journal of Construction Engineering and management*, ASCE, 140(11), 04014052.

Selected peer-reviewed conference proceedings: Published

18. Jeelani, I., Han, K., Albert, A. "Development of Immersive Personalized Training Environment for Construction Workers." *Computing in Civil Engineering 2017*, 407-415.
19. Namian, M., Zuluaga, C.M., and Albert, A. (2016) "Critical Factors that Impact Construction Workers' Hazard Recognition Performance." Proceedings of the 2016 Construction Research Congress Annual Conference, CRC, San Juan, Puerto Rico, May 31- June 2, 2016.
20. Zuluaga, C.M., Namian, M., and Albert, A. (2016) "Impact of training methods on Hazard Recognition and Risk Perception in Construction." Proceedings of the 2016 Construction Research Congress Annual Conference, CRC, San Juan, Puerto Rico, May 31- June 2, 2016.
21. **Albert, A.** and Hallowell, M.R. "Modeling the role of social networks in situational awareness and hazard communication." Proceedings of the 2013 Construction Research Congress Annual Conference, CRC, Atlanta, Georgia, May 19-21, 2014. *****Second best paper award*****
22. **Albert, A.** and Hallowell, M.R. (2011). "Factors influencing the decision to de-energize transmission and distribution lines for electrical contractor safety." Proceedings of the 2011 Canadian Society of Civil Engineers Annual Conference, CSCE, Ottawa, OT, Canada, June 14-17, 2011.
23. **Albert, A.** and Hallowell, M.R. (2012). "Hazard identification in the construction industry." *Proceedings of the 2012 Construction Research Congress Annual Conference*, CRC, West Lafayette, Indiana, West Lafayette, May 21-23, 2012.
24. **Albert, A.** and Hallowell, M.R. (2012). "Integrating andragogical learning theory into occupational safety and health training." *Proceedings of the 2012 Working Commission on Safety and Health on Construction Sites Annual Conference*, sponsored by the International Council for Research and Innovation in Building and Construction, Singapore, September 11-13, 2012.*****Best paper award*****
25. Tixer, A., **Albert, A.**, and Hallowell, M.R., (2013). "Teaching construction hazard recognition through high fidelity augmented reality." *Proceedings of the 2013 120th ASEE Annual Conference and Exposition*, Atlanta June 32-36, 2013. *****Best paper award*****
26. **Albert, A.** and Hallowell, M.R. (2013). "Measuring the effectiveness of pedagogical innovations using multiple baseline testing" *Proceedings of the 2013 120th ASEE Annual Conference and Exposition*, Atlanta June 32-36, 2013.