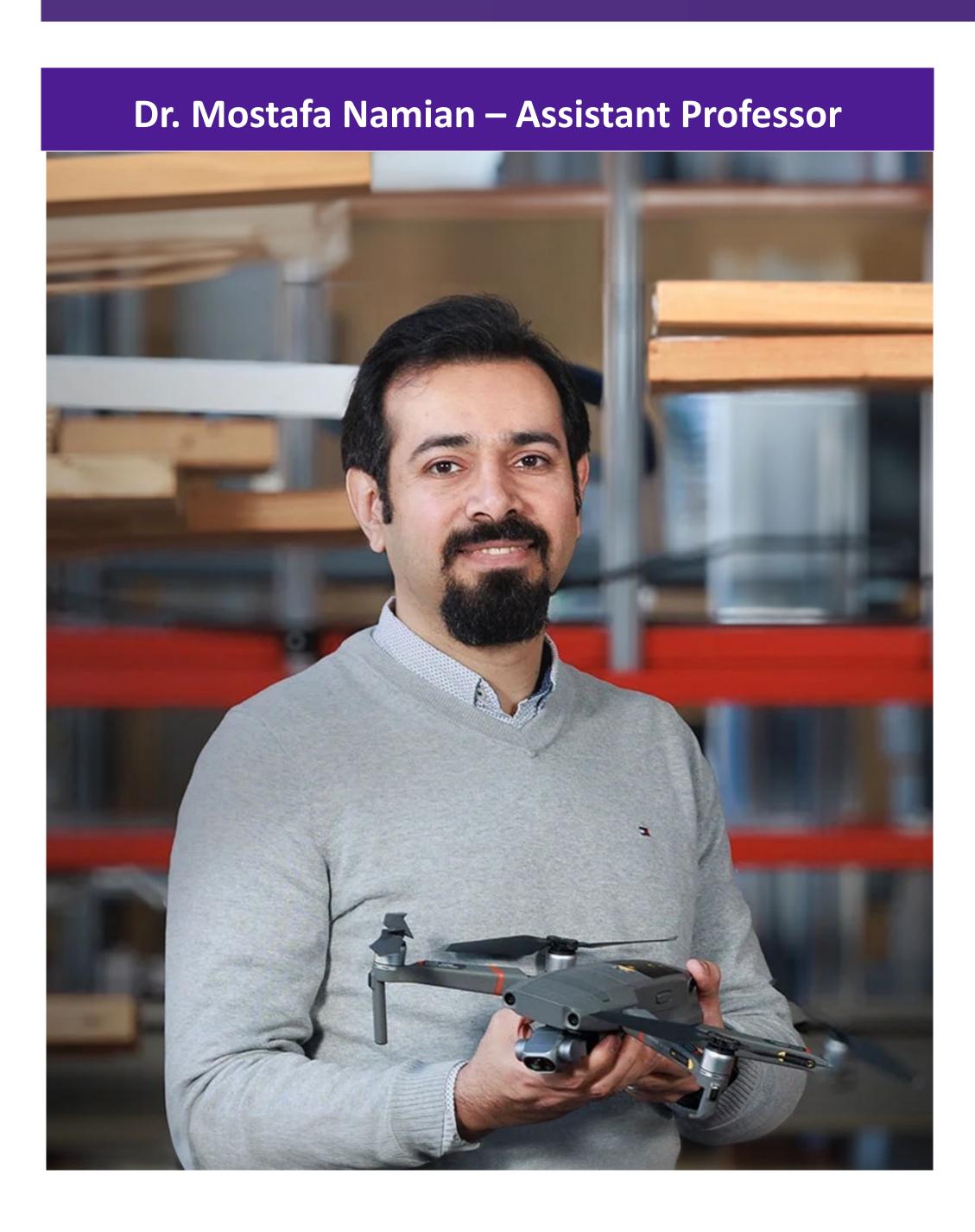


# Construction Safety, Technology, and Human Behavior

Mostafa Namian<sup>1</sup>

Department of Construction Management
East Carolina University, Greenville, North
Carolina 27858

Email: namianm19@ecu.edu



# **Mohammad Khalid**

- Worked on a funded federal grant
- Published: 1 journal and 4 conference papers
- Submitted 2 proposals as the PI
- Received Education & Research Foundation AGC Scholarship
- Received CIB Best Paper Award (picture)
- Received CET student research award
- Currently PhD student at VT



**Student Success Story** 

# Research and Teaching Interests

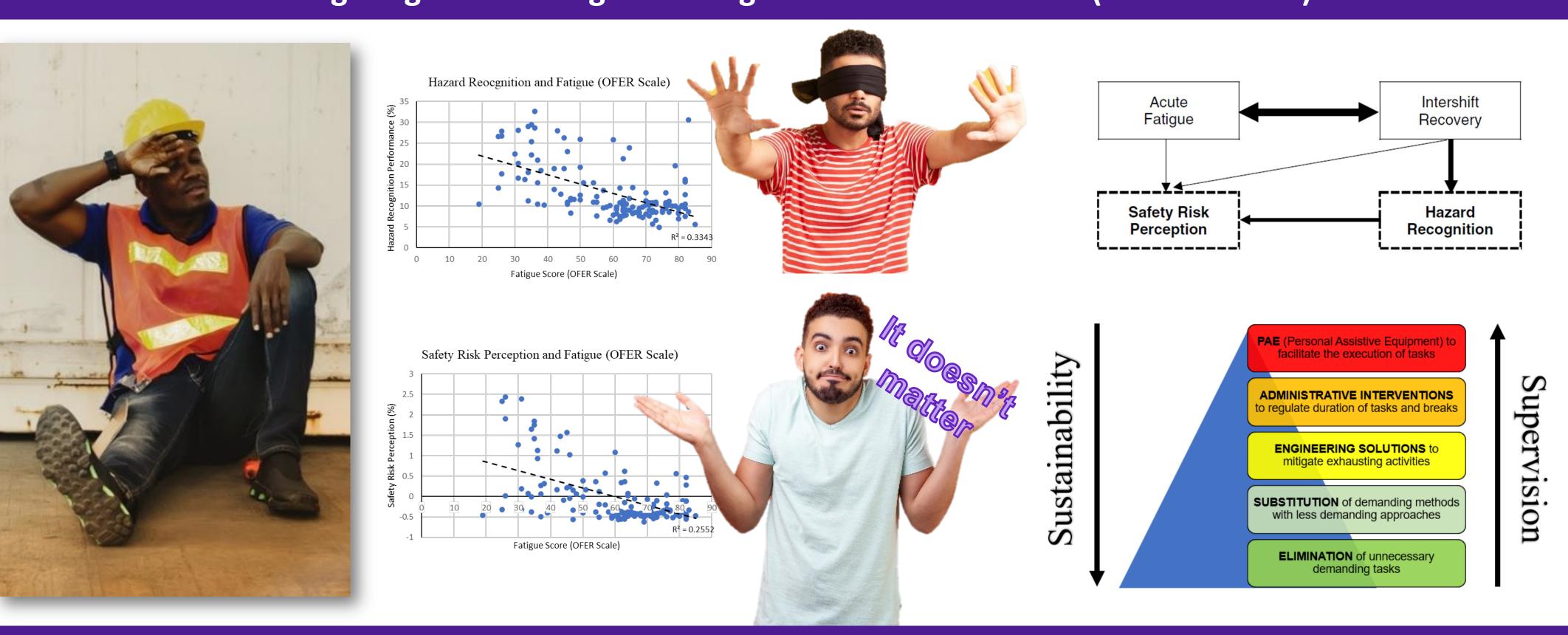
- Research:
  - Construction Safety Management
- Human Behavior in Construction
- UAVs in Construction Management
- Al in Construction Management
- Hazard Recognition and Safety Risk Perception
- Teaching:
  - Construction Safety Management
  - Leadership in Construction
  - BIM in Construction

## **Teaching Philosophy**

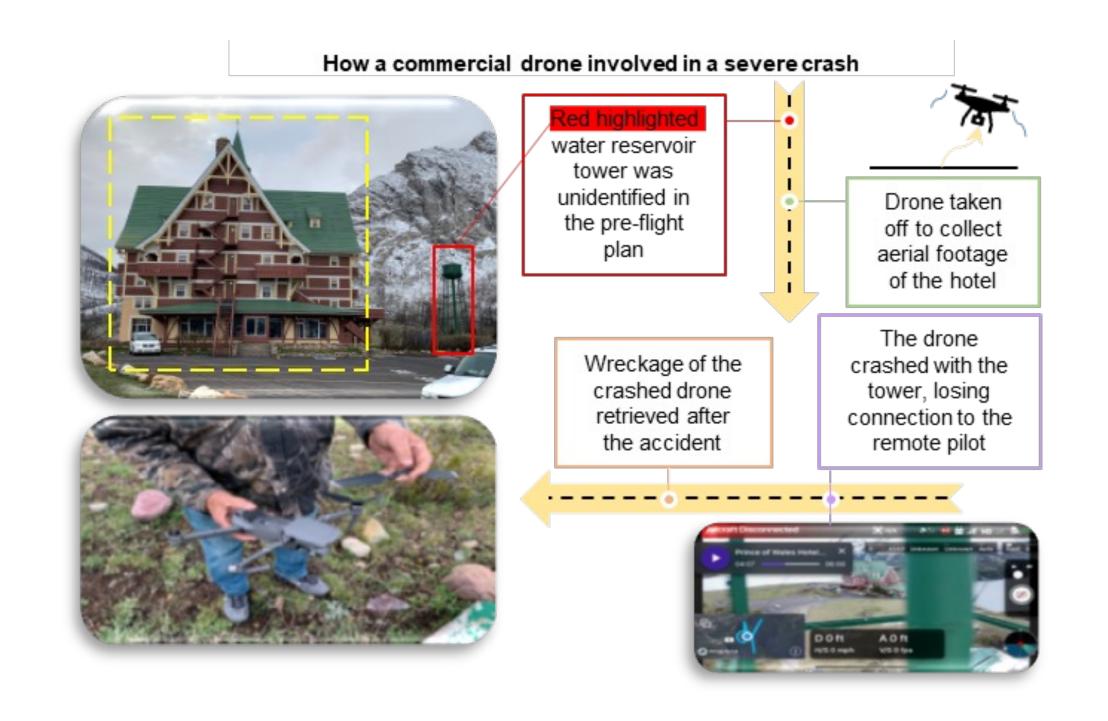
My passion and philosophy for teaching are built out of my past teaching experiences, relevant research on safety training, and professional experience working in construction. In my view, in a successful classroom, students are engaged, actively participate in group discussions, receive feedback in a timely manner, and openly ask questions. My classes are:

- Engaging and Fun
- Challenging
- Memorable and Inspiring
- Contemporary
- Learner-centered

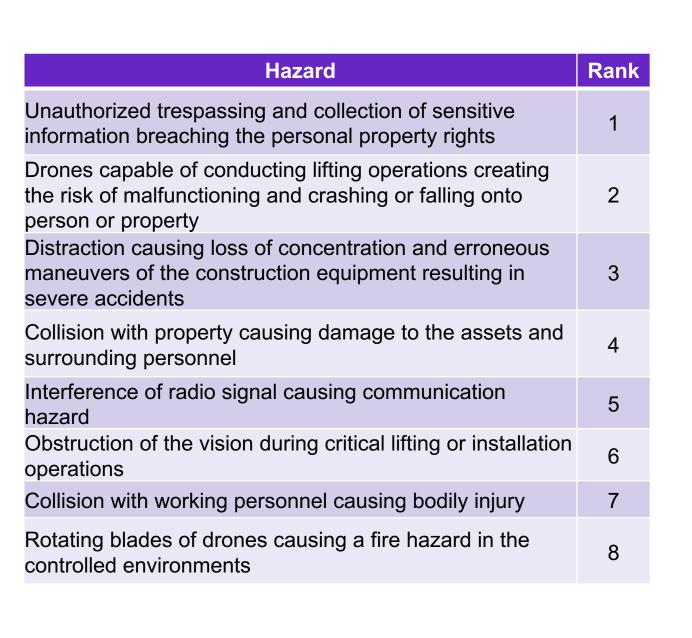
# Mitigating Risk of Fatigue Among Construction Workers (Federal Grant)



### **UAV Safety in Construction (Federal Grant)**



**Undergraduate and Graduate Students' Research Involvement** 





# **Awards and Honors**

- Scholar-Teacher Award College of Engineering and Technology, East Carolina University | November 2023
- Recognized as "The person at ECU who made the most significant positive contribution to student education" | May 2021, May 2022, and May 2023.
- Outstanding contribution as a Student Employee Supervisor of East Carolina University (nominated) | April 2022
- Featured as the Editor's Choice (2021), Namian, Mostafa, Taherpour, F., Ghiasvand, E., & Turkan, Y. Insidious Safety Threat of Fatigue: Investigating Construction Workers' Risk of Accident Due to Fatigue. Journal of Construction Engineering and Management (ASCE), 147(12), 04021162.
- Jimmie Hinze's Best Paper Award (2021), "Safety Implications of Using UAVs in Construction: An Ethical Perspective," the Proceedings of the Joint CIB W099 & W123 International Conference 2021: Changes and innovations for improved wellbeing in construction | September 2021
- East Carolina University, College of Engineering & Technology
   Faculty Research Award (Nominated) | April 2021
- Recipient of ECU Alternative Textbook Program Award | March 2021

### Peer-reviewed Journal Publications

- Tafazzoli, M., Hazrati, A., and Namian, M. (2024) " A Hierarchical Fuzzy Expert System for Contractor Prequalification." Journal of Legal Affairs and Dispute Resolution in Engineering and Construction.
- Ibrahim, A., Nnaji, C., **Namian, M.,** & Shakouri, M. (2024). Evaluating the Impact of Hazard Information on Fieldworkers' Safety Risk Perception. Journal of Construction Engineering and Management, 150(3), 04023174.
- Karthick, S., S. Kermanshachi, A. Pamidimukkala, and M. Namian. (2024). "Analysis of Construction Workers' Health and Safety in Cold Weather Conditions." J. Cold Reg. Eng., 38 (1): 04023022. American Society of Civil Engineers. https://doi.org/10.1061/JCRGEI.CRENG-687.
- Ibrahim, A., Nnaji, C., Namian, M., Koh, A., & Techera, U. (2023).
   Investigating the impact of physical fatigue on construction workers' situational awareness. Safety science, 163, 106103.
- Al-Mhdawi, M. K. S., Brito, M., Onggo, B. S., Qazi, A., O'connor, A., & Namian, M. (2023). Construction Risk Management in Iraq during the COVID-19 Pandemic: Challenges to Implementation and Efficacy of Practices. Journal of Construction Engineering and Management, 149(9), 04023086.
- Ahmed Jalil Al-Bayati, P., P. Ali A. Karakhan, and P. Mostafa Namian. (2023). "Construction Safety Personnel Qualifications: The Impact of Education, Experience, and Certification Programs." SHIFT Glob. EHS Res. Pract., 2 (1): 19–29. BCSP Foundation.
- Namian, M., Z. Ghorbani, F. Taherpour, E. Ghiasvand, and A. Karji. (2022). "Demystifying the Impact of Age on Safety Performance of Construction Workers: Examining the Mediating Roles of Experience and Fatigue." Practice Periodical on Structural Design and Construction (ASCE), 27 (4): 04022038. American Society of Civil Engineers. https://doi.org/10.1061/(ASCE)SC.1943-5576.0000718.
- Karthick, S., S. Kermanshachi, A. Pamidimukkala, and **M. Namian.** (2022). "A Review of Construction Workforce Health Challenges and Strategies in Extreme Weather Conditions." International Journal of Occupational Safety and Ergonomics, 1–35. Taylor & Francis. https://doi.org/10.1080/10803548.2022.2082138.
- Namian, Mostafa, Mohammadsoroush Tafazzoli, Ahmed Jalil Al-Bayati, and Sharareh Kermanshachi. (2022). "Are Construction Managers from Mars and Workers from Venus? Exploring Differences in Construction Safety Perception of Two Key Field Stakeholders." International Journal of Environmental Research and Public Health (MDPI) 19 (10): 6172. https://doi.org/10.3390/ijerph19106172.
- Namian, Mostafa, Taherpour, F., Ghiasvand, E., & Turkan, Y. (2021). Insidious Safety Threat of Fatigue: Investigating Construction Workers' Risk of Accident Due to Fatigue. Journal of Construction Engineering and Management (ASCE), 147(12), 04021162. (Editor's Choice).
- https://doi.org/10.1061/(ASCE)CO.1943-7862.0002180
- Namian, Mostafa, Khalid, Mohammad, Wang, George, Turkan, Yelda, (2021). "Revealing Safety Risks of Unmanned Aerial Vehicles in Construction." Transportation Research Record, 03611981211017134. http://worldcat.org/issn/03611981
- Taherpour, Farshid, Ghiasvand, Ebrahim, **Namian, Mostafa**. (2020). The Effect of Fatigue on Safety Attitude, Hazard Recognition and Safety Risk Perception among Construction Workers. Amirkabir Journal of Civil Engineering.
- https://dx.doi.org/10.22060/ceej.2020.17830.6688
- Karji, A., **Namian, M.,** & Tafazzoli, M. (2020). Identifying the Key Barriers to Promote Sustainable Construction in the United States: A Principal Component Analysis. Sustainability, 12(12), 5088. https://doi.org/10.3390/su12125088