

Michael Clamann

Senior Human Factors Engineer at UNC-Chapel Hill

Chapel Hill, NC, US

Dr. Clamann's research focuses on how current and future technologies can help reduce human error on our roadways.

Michael Clamann is a Senior Human Factors Engineer with the UNC Highway Safety Research Center (HSRC) where he researches how technology can help reduce human error on our roadways. His areas of expertise include human-automation interaction and autonomous vehicle technology. Prior to arriving at HSRC, he spent more than 15 years in industry and academia studying how people can effectively team with highly automated and autonomous systems in a variety of domains including transportation, aerospace, defense and telecommunications. His previous project work in transportation includes identifying methods for autonomous vehicles to communicate with pedestrians, investigating ways to measure a driver's mental workload and detect distraction while operating a highly automated vehicle, and measuring the effectiveness of using a mobile app to advise pedestrians about safe street crossings. He is an adjunct lecturer at Duke University where he teaches graduate and undergraduate courses in human factors, autonomous vehicles, and robotics and artificial intelligence policy. He also launched the robotics and artificial intelligence portal for the Duke's Science Policy Tracking Program, SciPol, where he managed a team of student writers responsible for tracking and reporting on policy developments related to robotics and AI. Michael represents HSRC as a member of the North Carolina Department of Transportation's Fully Autonomous Vehicle Committee (FAVC), where he leads the Autonomous Vehicle Research Group. He previously provided testimony to the National Highway Traffic Safety Administration (NHTSA) on the Federal Automated Vehicles Policy. Michael received a Ph.D. in Industrial and Systems Engineering with a Psychology minor at North Carolina State University in 2014. He received a M.I.E. in Industrial and Systems Engineering and a M.S. in Experimental Psychology from North Carolina State University in 2011 and 2002, respectively. He is a Certified Human Factors Professional (CHFP) and a member of the Human Factors and Ergonomics Society (HFES).

Airlines/Aviation, Safety, Research, Transportation/Trucking/Railroad

Cognitive Engineering, Autonomous Systems, Systems Engineering, Human Factors, Human-Automation Interaction, Usability, Task Analysis

Human Factors and Ergonomics Society, North Carolina Fully Autonomous Vehicle Committee

Augmenting Fine Motor Skill Training with Haptic Error Amplification

Proceedings of the Human Factors and Ergonomics Society 2018 Annual Meeting

AI in the Administrative State: Applications, Innovations, Transparency, Adaptivity

AI, Automated Vehicles, and Transportation Policy (Panel). 2018

Limitations in AV Detection Technologies and Implications for Pedestrian Safety

97th Annual Transportation Research Board Meeting, Washington, D.C. 2018

Evaluation of Vehicle-to-Pedestrian Communication Displays for Autonomous Vehicles
96th Annual Transportation Research Board Meeting, Washington, D.C. 2017

A Comparison of Virtual Reality-Based Psychomotor Task Training with Visual and Haptic Aiding
2017 Applied Human Factors & Ergonomics Conference. Boca Raton, FL: Taylor & Francis CRC Press

Detection of Attentional State in Long-Distance Driving Settings Using Functional Near-Infrared Spectroscopy
95th Annual Transportation Research Board Meeting, Washington, D.C., January 10-14, 2016

Autonomous Vehicles and Road Safety
CSCRS Coffee & Conversation 2.0, September 2018

Automated Vehicles and the Vision for Safety: A Federal and Industry Perspective
North Carolina Department of Transportation Executive Committee for Highway Safety Meeting
September 2018

North Carolina Autonomous Vehicle Testing and Research
Easterseals Transportation Group National Aging and Disability Transportation Center Accessible Pedestrian Pathways Webinar September 2018

Connected and Autonomous Vehicles: Public Policy Implications and North Carolina's Role.
Roundtable discussion organized by Congressman David Price August 2018

Senior Safety and Mobility in the Age of Automation.
AARP Automated Vehicle Policy Exploration Webinar August 2018

North Carolina State University
Ph.D. Industrial and System Engineering

North Carolina State University
M.I.E. Industrial and Systems Engineering

North Carolina State University
M.S. Experimental Psychology

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