Jonathan S. Wood, PhD, PE	
Assistant Professor, Department of Civil, Construction and Environmental Engineering Iowa State University 2711 South Loop Dr. Suite 4700 Ames, Iowa 50010	jwood2@iastate.edu IOWA STATE UNIVERSITY Civil, Construction, and Environmental Engineering

EDUCATION

- PhD, Civil and Environmental Engineering, Penn State University, University Park, PA, 2013–2016
- MS, Civil and Environmental Engineering, University of Utah, Salt Lake City, UT, 2002–2012
- BS, Civil and Environmental Engineering, University of Utah, Salt Lake City, UT, 2007–2011

PROFESSIONAL EXPERIENCE

- Assistant Professor, Department of Civil, Construction, and Environmental Engineering, Iowa State University, July 2020–present
- Safety and Sustainability Data Scientist, Global Data Insights & Analytics, Ford Motor Company, 2017–2020
- Assistant Professor, Department of Civil and Environmental Engineering, South Dakota State University, 2016–2017

SELECTED RESEARCH PROJECTS

- *Incorporating Driver Behavior and Characteristics into Safety Prediction Methods* (National Cooperative Highway Research Program [NCHRP 22-47a]): 2024–2026, PI
- *Integrated Strategies for Managing Excessive Travel Speed to Improve Safety Performance* (National Cooperative Highway Research Program [NCHRP 17-114]): 2024–2026, Co-PI
- *Acquiring Baseline and ADAS-equipped Commercial Heavy Freight Driving Performance Datasets: Data Analysis Support* (Federal Highway Administration): 2025, PI
- *Analysis of Dynamic Speed Feedback Signs at Transition Zones* (Iowa Department of Transportation): 2023–2025, PI
- *In-Service Performance Evaluations: Datasets and Methodologies* (Iowa Department of Transportation): 2023–2024, PI
- *Determining Effectiveness of Combined High Visibility Enforcement (HVE)* (Behavioral Traffic Safety [BTS17]): 2022–2023, Co-PI

SELECTED PUBLICATIONS

- Wood, J. S., and V. Gayah. 2025. Out-Of-Sample Prediction and Interpretation for Random Parameter Generalized Linear Models. *Accident Analysis & Prevention* (in press).
- Dong, Y., and J. S. Wood. 2025. Evaluation of Crash Contributing Factors. *Journal of Transportation Technologies*, Vol. 15, No. 1, pp. 590–606.
- Ajit, S., S. Knickerbocker, V. Mouli, and J. S. Wood. 2025. Forecasting road incident duration using machine learning framework. *Journal of Transportation Technologies*, Vol. 15, No. 2, pp. 222–251.

- Wood, J. S., and I. Van Schalkwyk. 2025. Reproducibility in Transportation Research: Importance, Best Practices, and Dealing with Protected and Sensitive Data. *Journal of Transportation Technologies*, Vol. 15, No. 1, pp. 179–202.
- Okaidjah, D., J. S. Wood, and C. Day. 2024. Artificial Intelligence-Based Sentiment Analysis of Changeable Message Signs that Report Fatality Numbers Using Connected Vehicle Data. *Journal of Transportation Technologies*, Vol.14, No. 4, pp. 590–606.
- Oh, M., J. S. Wood, and J. Dong-O'Brien. 2023. The Integrated Analysis of Primary and Secondary Incident Characteristics: Focusing on the impact and scope of the Safety Service Patrol Program in Iowa. *Heliyon*, Vol. 9, No. 7.
- Mumtarin, M., S. Knickerbocker, T. Litteral, and J. S. Wood. 2023. Traffic Incident Management Performance Measures: Ranking Agencies on Roadway Clearance Time. *Journal of Transportation Technologies*, Vol. 13, No. 3, pp. 353–368.
- Wood, J. S., Z. Yu, and V. Gayah. 2022. Development And Evaluation of Frameworks for Real-Time Bus Passenger Occupancy Prediction. *International Journal of Transportation Science and Technology*.
- Wood, J. S., and S. Zhang. 2020. Evaluating Relationships between Perception-Reaction Times, Emergency Deceleration Rates, and Crash Outcomes using Naturalistic Driving Data. *Transportation Research Record: Journal of the Transportation Research Board*, pp. 213–223.
- Shaaban, K., J. S. Wood, and V. Gayah. 2017. Investigating Driver Behavior at Two-Way Stop Sign Intersections in Qatar. *Transportation Research Record: Journal of the Transportation Research Board*, No. 2663, pp. 109–116.
- Wood, J. S., and E. T. Donnell. 2017. Stopping Sight Distance and Available Sight Distance: New Model and Comparison Using Reliability Theory. *Transportation Research Record: Journal of the Transportation Research Board*, No. 2638, pp. 1–9.
- Yu, Z., J. S. Wood, and V. Gayah. 2017. Using Survival Models to Estimate Bus Travel Times and Associated Uncertainties. *Transportation Research Part C: Emerging Technologies*, Vol. 74, pp. 366–382.
- Wood, J. S., and R. J. Porter. 2013. Safety Impacts of Design Exceptions on Nonfreeway Segments. *Transportation Research Record: Journal of the Transportation Research Board*, No. 2358, pp. 29–37.
- Porter, R. J., and J. S. Wood. 2013. Exploring the Endogeneity of Macroscopic Speed Parameters: Empirical Study During Low Volume Conditions in Construction Work Zones. *Transportation Letters: The International Journal of Transportation Research*, Vol. 5, No. 1, pp. 27–37.