

Jonathan S. Wood, PhD

Assistant Professor, Department of Civil, Construction and Environmental Engineering
Faculty Affiliate, Institute for Transportation
Iowa State University
2711 South Loop Dr. Suite 4700
Ames, IA 50010

(435) 760-2781

jwood2@iastate.edu

IOWA STATE UNIVERSITY
Institute for Transportation

EDUCATION

- PhD, Civil and Environmental Engineering, Pennsylvania State University, University Park, PA, 2016
- MS, Civil and Environmental Engineering, University of Utah, Salt Lake City, UT, 2012
- BS, Civil and Environmental Engineering, University of Utah, Salt Lake City, UT, 2011

PROFESSIONAL EXPERIENCE

- Assistant Professor, Department of Civil, Construction, and Environmental Engineering, Iowa State University, July 2020–present
- Assistant Professor, College of Engineering, Wayne State University, 2019–2020
- Traffic Commissioner, City of Livonia, Michigan, 2019–2020
- 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 PUBLICATIONS

- Wood, J. S., and Zhang, S. 2021. 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*, No. 2675, pp. 213–223.
- Wood, J. S., and Donnell, E. T. 2020. Empirical Bayes Before-After Evaluation of Horizontal Curve Warning Pavement Markings on Two-Lane Rural Highways in Pennsylvania. *Accident Analysis & Prevention*, Vol. 146.
- Wood, J. S., and Donnell, E. T. 2017. Causal Inference Framework for Generalizable Safety Effect Estimates. *Accident Analysis & Prevention*, Vol. 104, pp. 74–87.
- McGee, H., Holzem, A., Albee, M., Donnell, E. T., Wood, J. S., Hanscom, F., Cheng, J., and Scatterfield, C. 2016. *Low-Cost Treatments for Horizontal Curve Safety 2015*, Report No. FHWA-SA-15-084. Federal Highway Administration, Washington, DC.
- Wood, J. S., Donnell, E. T., and Porter, R. J. 2015. Comparison of Safety Effect Estimates Obtained from Empirical Bayes Before–After Study, Propensity Scores-Potential Outcomes Framework, and Regression Model with Cross-Sectional Data. *Accident Analysis & Prevention*, Vol. 75, pp. 144–154.

- Boodlal, L., Donnell, E. T., Porter, R. J., Garimella, D., Le, T., Croshaw, K., Himes, S., Kulis, P., and Wood, J. S. 2015. *Factors Affecting Speed and Safety on Rural and Suburban Roads*, Report No. FHWA-HRT-15-30. Federal Highway Administration, Washington, DC.
- Porter, R. J., and Wood, J. S. 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.