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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 RESEARCH PROJECTS

- *Designing and Implementing Maintainable Pedestrian Safety Countermeasures*, MDOT
- *Feasibility of Implementing Pedestrian Hybrid Beacon (PHB) Signals for Improving Safety and Mobility in Nevada*, Nevada DOT
- *Evaluating Relationships between Perception-Reaction Times, Emergency Deceleration Rates, and Crash Outcomes Using Naturalistic Driving Data*, Mountain Plains Consortium (MPC) and South Dakota State University (SDSU)

SELECTED JOURNAL PUBLICATIONS

- Wood, J. S., and S. Zhang. 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 E.T. Donnell. 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 S. Zhang. 2018. Identification and Calculation of Horizontal Curves for Low-Volume Roadways Using Smartphone Sensors. *Transportation Research Record, Journal of the Transportation Research Board*, Vol. 2672, No. 39, pp. 1–10.
- Butsick, A. J., J. S. Wood, and P. P. Jovanis. 2017. Using Network Screening Methods to Determine Locations with Specific Safety Issues: A Design Consistency Case Study. *Accident Analysis & Prevention*, Vol. 106, pp. 223–233.
- Wood, J. S. and E. T. Donnell. 2017. Causal Inference Framework for Generalizable Safety Effect Estimates. *Accident Analysis & Prevention*, Vol. 104, pp. 74–87.
- 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*, Vol. 74, pp. 366–382.
- Wood, J. S. and E. T. Donnell. 2017. Relationship between Roadside Hazard Rating and Crash Occurrence. *Transportation Research Circular E-C220*, pp. 34–51.
<http://onlinepubs.trb.org/onlinepubs/circulars/ec220.pdf>.
- Donnell, E. T., J. S. Wood, S. Himes, and D. Torbic. 2016. Use of Side Friction in Horizontal Curve Design: A Margin of Safety Assessment. *Transportation Research Record, Journal of the Transportation Research Board*, No. 2588, pp. 61–70.
- Wood, J. S., E. T. Donnell, and C. Farris. 2016. A Method to Account for and Model Underreporting in Crash Frequency Research. *Accident Analysis & Prevention*, Vol. 95, pp. 57–66.
- Wood, J. S. and E. T. Donnell. 2016. Safety Evaluation of Continuous Green T Intersections: A Propensity Scores-Genetic Matching-Potential Outcomes Approach. *Accident Analysis & Prevention*, Vol. 93, 2016, pp. 1–13.
- Wood, J. S., J. P. Gooch, and E. T. Donnell. 2015. Estimating the Safety Effects of Lane Widths on Urban Streets in Nebraska Using the Propensity Scores-Potential Outcomes Framework. *Accident Analysis & Prevention*, Vol. 82, pp. 180–191.
- Wood, J. S., E. T. Donnell, and R. J. Porter. 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.
- Wood, J. S. and R. J. Porter. 2013. Safety Impacts of Design Exceptions on Non-Freeway 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.

PATENTS

- *Systematically Analyze Roadway Safety Problems and Simulate Interventions Using Connected Vehicle and Other Innovative Datasets*. US, Germany, and China Patents. (Patent Pending)
- *Insurance Management System*. US, Germany, and China Patents. (Patent Pending)

SELECTED PROFESSIONAL AFFILIATIONS AND SERVICE

- Member, Society of Automotive Engineers (SAE)
- Member, TRB Standing Committee on Statistical Methods (ABJ80)
- Panel Member, NCHRP 22-49: The Effect of Vehicle Mix on Crash Frequency and Crash Severity
- Panel Member, NCHRP 22-45: Informing the Selection of Countermeasures by Evaluating, Analyzing, and Diagnosing Contributing Factors that Lead to Crashes