Anuj Sharma, PhD	
Pitt-Des Moines, Inc. Professor, Department of Civil, Construction and Environmental Engineering Co-Director, REACTOR Laboratory, Institute for Transportation Iowa State University 2711 South Loop Dr. Suite 4700 Ames, IA 50010	515-294-3624 anujs@iastate.edu IOWA STATE UNIVERSITY Institute for Transportation

EDUCATION

- PhD, Civil Engineering, Purdue University, West Lafayette, IN, 2008
- MS, Civil Engineering, Texas A&M University, College Station, TX, 2004
- BE, Civil Engineering, Regional Engineering College, Rourkela (India), 2001

PROFESSIONAL EXPERIENCE

- Pitt-Des Moines, Inc. Professor, Department of Civil, Construction and Environmental Engineering, Iowa State University, 2019–present
- Affiliated Associate Professor, Department of Computer Science, Iowa State University, 2019–present
- Visiting Faculty, Indian Institute of Technology, 2019–2022

SELECTED RESEARCH PROJECTS

- *Guide for long-term Automatic Traffic Signal Performance Measurement Systems Applications* (National Cooperative Highway Research Program): 2024–2026, Co-PI
- *Evaluation of the Traffic Signal Timing Manual, Third Edition* (National Cooperative Highway Research Program): 2024-2026, Co-PI
- *Crash Modification Factors for Automated Traffic Signal Performance Measures* (National Cooperative Highway Research Program): 2023-2025, Co-PI
- *Quantitative Assessment of Driving Capabilities of Senior Drivers* (Toyota): 2022–2023, PI
- *Developing Mechanisms to Detect Driver Risk from Driver State in Diabetes* (Toyota): 2022–2023, PI
- *Navigation System for Snowplows in Low Visibility Situations* (Iowa Department of Transportation): 2021–2023, PI
- *Evaluation of Static and Dynamic No Right Turn on Red Signs at Traffic Signal* (Minnesota Department of Transportation): 2022–2004, Co-PI
- *Workplan for Transportation Research Project Support for Iowa DOT Operations Division* (Iowa Department of Transportation): 2021–2023, Co-PI
- *Investigating Teleoperated Equipment for Use in Caltrans Operations* (California Department of Transportation): 2021–2024, Co-PI
- *Monitoring Real-world Driver Behavior for Classification and Early Prediction of Alzheimer's Disease* (National Institutes for Health): 2020–2024, Co-PI

- *Deep Insight – Deep-Net Driven Approach to Estimate Driver State from Naturalistic Data* (Federal Highway Administration): 2019–2023, PI

SELECTED PUBLICATIONS

- Kandiboina, R., V. Mouli, G. Basulto-Elias, S. Knickerbocker, N. Hawkins, and A. Sharma. A Real-Time Freeway Crash Detection Framework Using Connected Vehicle Waypoint Data. *Transportation Research Record: Journal of the Transportation Research Board* (Accepted).
- Mahmud, S., M. S. Arya, P. Sapkota, A. Sharma, and C. M. Day. 2025. Observations of Driver Compliance with Dynamic No Right Turn on Red Signs at Signalized Intersections. *Proc., 103rd Transportation Research Board Annual Meeting*, Washington, DC.
- Dumka, A., R. Kandiboina, A. Joshi, S. Knickerbocker, N. Hawkins, and A. Sharma. 2025. An Automated Framework for Lane Closure Detection on Highway Using Connected Vehicle Data and Machine Learning Models. *Journal of Advanced Transportation*.
- Zarindast, A., C. Day, and A. Sharma. 2024. Machine Learning Method to Reverse Engineer Detector Metadata at Signalized Intersections with Unknown Control Plans. *Data Science for Transportation*, Vol. 6, No. 2.
- Basulto-Elias G., S. Hallmark, A. Barnwal, A. Sharma, M Rizzo, and J. Merickel. 2023. Strategy and safety at stop intersections in older adults with mild cognitive impairment and visual decline. *Transportation Research Interdisciplinary Perspectives*, Vol. 22.
- Armstrong, A., Y. Adu-Gyamfi, S. V. Gursoy, J. Merickel, M. Rizzo, and A. Sharma. 2022. Driver Maneuver Detection and Analysis using Time Series Segmentation and Classification. *Journal of Transportation Engineering, Part A: Systems*.
- Poddar, S., P. Chakraborty, A. Sharma, S. Knickerbocker, and N. Hawkins. 2022. Massively Parallelizable Approach for Evaluating Signalized Arterial Performance Using Probe-based data. *Journal of Intelligent Transportation Systems*.
- Zarindast, A., S. Poddar, and A. Sharma. 2022. A data-driven method for congestion identification and classification. *Journal of Transportation Engineering, Part A: Systems*, Vol. 148, No. 4.

PROFESSIONAL AFFILIATIONS AND SERVICE

- Current Reviewer for *Analytic Methods in Accident Research*, *Accident Analysis and Prevention*, *Computer-Aided Civil and Infrastructure Engineering*, *Transportation Research Part F*, *Journal of Transportation Safety and Security*, *Transportation in Developing Economies*, *Transportation Research Record*, *Journal of Transportation Engineering*, *Journal of Intelligent Transportation Systems*, and *Traffic Injury and Prevention*
- Voting Member, Transportation Research Board (TRB) Traffic Signal Systems Committee, 2014–present
- Voting Member, TRB Traffic Signal Systems Education Sub-committee, 2014-present
- Web Administrator, TRB Traffic Signal System's Committee, 2012–present