

Jing Dong-O'Brien, PhD	
Associate Professor, Department of Civil, Construction and Environmental Engineering Transportation Engineer, Center for Transportation Research and Education, Institute for Transportation Iowa State University 2711 South Loop Dr. Suite 4700 Ames, IA 50010	515-294-3957 jingdong@iastate.edu IOWA STATE UNIVERSITY Institute for Transportation

EDUCATION

- PhD, Civil and Environmental Engineering, Northwestern University, Evanston, IL, 2008
- MS, Systems Engineering, Tsinghua University, China, 2003
- BS, Automation, Tsinghua University, China, 2001

PROFESSIONAL EXPERIENCE

- Associate Professor, Civil, Construction, and Environmental Engineering, Iowa State University, 2018–present
- Assistant Professor, Civil, Construction, and Environmental Engineering, Iowa State University, 2012–2018
- Research Staff Member, Oak Ridge National Laboratory, 2010–2012
- Postdoctoral Researcher, Transportation Center, Northwestern University, 2009–2010

SELECTED PUBLICATIONS

- Rahdar, M., L. Wang, J. Dong, and G. Hu. 2022. Resilient Transportation Network Design Under Uncertain Link Capacity Using A Trilevel Optimization Model. *Journal of Advanced Transportation*, Vol. 2022.
- Hallmark, B., and J. Dong. 2020. Develop Roadway Safety Models for Winter Weather Conditions using A Feature Selection Algorithm. *Journal of Advanced Transportation*, Vol. 2020.
- Hu, L., J. Dong. 2020. An Artificial Neural Network Based Model for Real Time Dispatching of Electric Autonomous Taxis. *IEEE Transactions on Intelligent Transportation Systems*, pp. 1–10.
- Hu, L., J. Dong, and Z. Lin. 2019. Modeling charging behavior of battery electric vehicle drivers: A cumulative prospect theory based approach. *Transportation Research Part C*, Vol. 102, pp. 474–489.
- Lu, C., J. Dong, and L. Hu. 2019. Energy-Efficient Adaptive Cruise Control for Electric Connected and Autonomous Vehicles. *IEEE Intelligent Transportation Systems Magazine*, Vol. 11, No. 3, pp. 42–55.
- Hu, L., J. Dong, Z. Lin, and J. Yang. 2018. Analyzing Battery Electric Vehicle Feasibility from Taxi Travel Patterns: The Case Study of New York City, USA. *Transportation Research Part C*, Vol. 87, pp. 91–104.
- Yang, J., J. Dong, and L. Hu. 2018. Design government incentive schemes for promoting electric taxis in China. *Energy Policy*, Vol. 115, pp. 1–11.
- Lu, C., J. Dong, A. Sharma, T. Huang, and S. Knickerbocker. 2018. Prediction of Freeway Work Zone Capacity. *Journal of Advanced Transportation*.

- Lu, C. and J. Dong. 2017. Estimating Freeway Travel Time and Its Reliability Using Radar Sensor Data. Forthcoming in *Transportmetrica B: Transport Dynamics*.
- Dong, J., C. Liu, and Z. Lin. 2014. Charging Infrastructure Planning for Promoting Battery Electric Vehicles: An Activity-Based Approach Using Multiday Travel Data. *Transportation Research Part C*. Vol. 38, pp. 44–55.
- Dong, J. and H. S. Mahmassani. 2012. Stochastic Modeling of Traffic Flow Breakdown Phenomenon: Application to Predicting Travel Time Reliability. *IEEE Transactions on Intelligent Transportation Systems*. Vol. 13, No. 4, pp. 1803–1809.

OTHER SCHOLARLY PAPERS

- Dong, J., J. Amaya, T. Litteral, and S. Davamilowa. 2021. *Automated Permitting System Report to Legislature*. Center for Transportation Research and Education, Institute for Transportation, Iowa State University, Ames, IA.
- Muratoria, M, D. Greene, E. Kontou, and J. Dong. 2020. *The role of infrastructure to enable and support electric drive vehicles: A Transportation Research Part D Special Issue*.
- Dong, J., and Y. Yang. 2020. *Development of Adjustment Factors for HCM Sixth Edition Freeway Work Zone Capacity Methodology*. Center for Transportation Research and Education, Institute for Transportation, Iowa State University, Ames, IA.
- Dong, J., L. Zhang, and Y. Yang. 2019. *Iowa DOT Office of Maintenance Snowplow Optimization*. Center for Transportation Research and Education, Institute for Transportation, Iowa State University, Ames, IA.
- Dong, J., and L. Hu. 2017. *Macroscopic Traffic Flow Characteristics and Individual Vehicle Fuel Consumption*. Midwest Transportation Center, Institute for Transportation, Iowa State University, Ames, IA.

PROFESSIONAL AFFILIATIONS, HONORS, AND SERVICE

- Editor, *Journal of Advanced Transportation*, 2020–present
- Associate Editor for the 13th, 14th, 16th–24th IEEE Conference on Intelligent Transportation Systems
- Senior Member of IEEE, 2019–present
- Committee Member of TRB standing committee on Transportation Network Modeling (AEP40), 2015–present
- Committee Member of TRB standing committee on Traffic Flow Theory and Characteristics (ACP50), 2011–present
- 2021 Charles W. Schafer Award for Excellence in Teaching, Research and Service in the Department of Civil, Construction & Environmental Engineering at Iowa State University