

## **Education**

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- Ph.D., Civil Engineering, Virginia Tech, 2005
- M.Sc., Transportation Engineering, University of Tehran, 2000
- B.S., Civil Engineering, University of Tehran, 1998

## **Professional Experience**

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- July. 2006–present: Texas A&M Transportation Institute: Various Research Positions, Currently Program Manager since 2014, Air Quality Program
- May. 2002–July. 2006: Virginia Tech Transportation Institute: Associate Research Engineer

## **Professional Affiliation**

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- Professional Engineer, Texas, 2010 – present
- EPA Peer Review Panel (2013)
- NCHRP Peer Review Panel (2013)
- Transportation Research Board:
  - Friend, TRB Simulation Subcommittee, 2006 – present.
  - Friend, TRB Transportation Air Quality Committee, 2007 – present.

## **Recent and On-going Related Projects (Partial Listing)**

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- Collection and Analysis of Vehicle Activity Data to Improve Transportation and Air Quality Planning, Houston-Galveston Area Council and Port of Houston Authority
- Characterizing Drayage Activities and Emissions in the Laredo-Nuevo Laredo Airshed, Border Environment Cooperation Commission
- Characterization of Drayage Activities in the Paso Del Norte Airshed, El Paso Metropolitan Planning Organization
- Characterization of Activity Profiles for Cross-Border Transit Buses, Texas Commission on Environmental Quality
- Ramp Metering Impact Study with Potential Regional Deployment within the Dallas-Fort Worth Ozone Nonattainment Area
- Evaluation of Air Quality Models with Near-Road Monitoring Data, Texas Department of Transportation
- Investigate the Air Quality Benefits of Nighttime Construction in Non-attainment Counties, Texas Department of Transportation
- Updating the Texas Guide to Accepted Mobile Source Emissions Reduction Strategies (MOSERS), Texas Department of Transportation

- Development of Emissions Reduction Program for Heavy-Duty Trucks Operating in Border Region, Texas Commission on Environmental Quality
- Border Crossing Emission Estimation Tool for El Paso POEs, Texas Commission on Environmental Quality
- Accounting for Electric Vehicles in Air Quality Conformity, Texas Department of Transportation
- Texas-Specific Drive Cycles and Idle Emissions Rates for Using with EPA's MOVES Model, Texas Department of Transportation
- Developing Performance Measures for Sustainable Freight Transportation, University Transportation Center for Mobility
- Use of Performance Measurement to Include Air Quality and Energy into Mileage-Based User Fees, University Transportation Center for Mobility
- Characterization of Exhaust Emissions From Heavy-Duty Diesel Vehicles in HGB Area, Texas Department of Transportation
- Greening North American Transportation Corridors: Challenges and Opportunities, Commission for Environmental Cooperation
- Transportation Air Quality Policy Analysis, Texas Department of Transportation
- Identifying and Testing SmartWay Technologies for Drayage Trucks, Texas Commission on Environmental Quality
- Development and Application of Verification Protocol for Auxiliary Power Units, Houston Advanced Research Center

## Relevant Publications and Presentations

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- Characterization of Cross-Border Heavy-Duty Drayage Activity in the Laredo-Nuevo Laredo Airshed, presented at Transportation Research Board Annual Meeting, 2017
- Farzaneh, Reza, Future of Electrified Heavy-Duty Vehicles, presented at the Smart Cities Connect Conference – VW Settlement Workshop, Austin, TX, 2017
- Birt, Andrew, Farzaneh, R., Johnson, J., Gu, C. Overmyer, S., and Zietsman, J. *Characterizing Drayage Activities and Emissions in the Laredo-Nuevo Laredo Airshed*, Final Report, prepared for Border Environment Cooperation Commission, 2016.
- Farzaneh, Reza, J. Johnson, S. Overmyer, D. Galicia and C. Gu. *Characterization of Activity Profiles for Cross-Border Transit Buses*, Draft Final Report, prepared for Texas Commission on Environmental Quality. 2015.
- Farzaneh, Reza, Yuche Chen, Jeremy Johnson, Josias Zietsman, Chaoyi Gu, Tara Ramani, L. D. White, Megan Kenney, and Yue Zhang. *Accounting for Electric Vehicles in Air Quality Conformity*, Final Report, prepared for Texas Department of Transportation, 2014.
- Farzaneh, Reza, et al. *Texas Specific Drive Cycles and Idle Emissions Rates for Using with EPA's MOVES Model*. Final Report, No. 0-6629. 2013.
- Farzaneh, Mohamadreza, Gokhan Memisoglu, and Kiavash Kianfar. "Optimal Deployment of Emission Reduction Technologies for Large Fleets." *Transportation Research Record: Journal of the Transportation Research Board* 2287.1 (2012): 18-26.
- Farzaneh, M., Ramani, T., Krishnan, A. and Zietsman, J. Performance Measures for Sustainable Freight Movement, Report UTCM 09-37-15, University Transportation Center for Mobility, 2012.

- Lee, D. L., J. Zietsman, M. Farzaneh, and J. Johnson. *Characterization of On-Road Emissions of Compressed Natural Gas and Diesel Fuel Vehicles*. In *Transportation Research Record 2233*, Transportation Research Board, National Research Council, Washington, D.C. 2011, pp 80-89.
- Farzaneh, M., J. S. Lee, J. Villa, and J. Zietsman. *Corridor-Level Air Quality Analysis of Freight Movement: North American Case Study*. In *Transportation Research Record 2233*, Transportation Research Board, National Research Council, Washington, D.C. 2011, pp 19-26.
- Farzaneh, M., W. H. Schneider, and J. Zietsman. *Field Evaluation of Carbon Dioxide Emissions at High Speeds*. In *Transportation Research Record 2191*, Transportation Research Board, National Research Council, Washington, D.C. 2010, pp. 152–157.
- Zietsman, J., Farzaneh, M., Schneider W. H., Lee, J., and P. Bubbosh. *Truck Stop Electrification as a Strategy To Reduce Greenhouse Gases, Fuel Consumption and Pollutant Emissions*. Preprint of the 89<sup>th</sup> Annual Meeting of the Transportation Research Board, National Research Council, Washington, D.C. 2009.
- Zietsman, J., J. C. Villa, T. L. Forrest, and J. M. Storey. *Estimating Truck Emissions at the El Paso – Ciudad Juárez Border*. Proceedings of the National Urban Freight Conference, Long Beach, California. February, 2006.
- Bari, E. M., J. Zietsman, L. Quadrioglio, M. Farzaneh. Optimal Deployment of Emissions Reduction Technologies for Construction Equipment. *Journal of the Air & Waste Management Association*, Vol. 61, pp. 1–20.
- Lee, D., J. Zietsman, M. Farzaneh, W. W. Li, H. A. Olvera, J. M. E. Storey, L. Kranendonk. *In-Cab Air Quality of Trucks Air Conditioned and Kept in Electrified Truck Stop*. In *Transportation Research Record 2123*, Transportation Research Board, National Research Council, Washington, D.C. 2009, pp 17-25.
- Farzaneh, M., J. Zietsman, and D. Lee. Evaluation of In-Use Emissions from Refuse Trucks. In *Transportation Research Record 2123*, Transportation Research Board, National Research Council, Washington, D.C. 2009, pp. 38–45.