

Nima Golshani

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EDUCATION

- **University of Illinois at Chicago (UIC)** Aug. 2015 – Aug. 2018
 Ph.D. in Civil Engineering (Transportation)
- **University at Buffalo (State University of New York)** Aug. 2013 – Aug. 2015
 M.Sc. in Civil Engineering (Transportation)
- **Amirkabir University of Technology** Aug. 2003 – Feb. 2009
 B.Sc. in Civil Engineering

PROFESSIONAL EXPERIENCE

- **Research Scientist II** Nov. 2018 – Present
 Center for Quality Growth and Regional Development
 Georgia Institute of Technology
- **Design Engineer** Jun. 2011 – May 2013
 Chagalesh Consulting Engineers Co.
- **Field Engineer** Feb. 2009 – Apr. 2010
 Sazeh Ahvaz Co.

AREA OF EXPERTISE

- Travel Behavior
- Statistical Modeling and Econometrics
- Machine Learning and Data Analytics
- Emergency and Evacuation Modeling
- Integrated Land Use, Transportation, and Environment Models
- Connected and Automated Vehicles
- Travel Demand Management
- Traffic Safety
- Infrastructure Management

HONORS & AWARDS

- Bob Camillone Memorial Scholarship, Illinois Section of the American Society of Civil Engineers Mar. 2018
- Student Presenter Award Feb. 2017
- Student Paper Award, Illinois Section of the Institute of Transportation Engineers Jan. 2017
- David Boyce Graduate Award Jun. 2016

SELECTED RESEARCH PROJECTS

- National Economic Partnerships/Megaregions pilot - Freight & Goods Movement and Truck Parking Study in the Chattanooga Region
- Phase III: Transportation Investment Act – Benchmark Assessment and Benefit-Cost Analysis, 2013-2018
- Enhancing POLARIS Agent Based Framework
- Coordinated Planning Support Tools for Mitigating Impacts of All-Hazard Emergency Events
- Developing a National Platform to Analyze Connected Automated Vehicles Scenarios
- Evaluation of Public-Private Partnership Contract Types for Roadway Construction, Maintenance, and Rehabilitation

PUBLICATIONS

Book Chapters

- B1. Shamshiripour, A., Shabanpour, R., Golshani, N., Auld, J., Mohammadian, A., 2020. A Flexible Activity Scheduling Conflict Resolution Framework. In: Goulias K.G., Davis A.W. (eds) *Mapping the Travel Behavior Genome*. Elsevier. doi: [10.1016/B978-0-12-817340-4.00016-4](https://doi.org/10.1016/B978-0-12-817340-4.00016-4)
- B2. Shabanpour R., Golshani, N., Stephens, T.S., Auld, J., Mohammadian, A., 2019. Developing a Spatial Transferability Platform to Analyze National-level Impacts of Connected Automated Vehicles. In: Briassoulis H., Kavroudakis D., Soulakellis N. (eds) *The Practice of Spatial Analysis*. Springer, Cham. doi: [10.1007/978-3-319-89806-3_12](https://doi.org/10.1007/978-3-319-89806-3_12)

Journal Articles

- J1. Golshani, N., Shabanpour, R., Mohammadian, A., Auld, J., Ley, H., 2019. Evacuation Decision Behavior for No-Notice Emergency Events. *Transportation Research Part D: Transport and Environment*. doi: [10.1016/j.trd.2019.01.025](https://doi.org/10.1016/j.trd.2019.01.025)
- J2. Golshani, N., Shabanpour, R., Mohammadian, A., Auld, J., Ley, H., 2019. Analysis of evacuation destination and departure time choices for no-notice emergency events. *Transportmetrica A: Transport Science*. 15(2), 896-914. doi: [10.1080/23249935.2018.1546778](https://doi.org/10.1080/23249935.2018.1546778)
- J3. Shamshiripour, A., Golshani, N., Shabanpour, R., Mohammadian, A., 2019. Week-Long Mode Choice Behavior: Dynamic Random Effects Logit Model, *Transportation Research Record: Journal of the Transportation Research Board*. doi: [10.1177/0361198119851746](https://doi.org/10.1177/0361198119851746)
- J4. Shamshiripour, A., Shabanpour, R., Golshani, N., Mohammadian, A., 2019. Analysis of Active School Travel: Examining the Role of Public Safety, *International Journal of Sustainable Transportation*. doi: [10.1080/15568318.2019.1628327](https://doi.org/10.1080/15568318.2019.1628327)
- J5. Golshani, N., Shabanpour, R., Mahmoudifard, S.M., Derrible, S., Mohammadian, A., 2018. Modeling travel mode and timing decisions: comparison of artificial neural networks and copula-based joint models. *Travel Behaviour and Society*, 10, 21-32. doi: [10.1016/j.tbs.2017.09.003](https://doi.org/10.1016/j.tbs.2017.09.003)
- J6. Golshani, N., Shabanpour, R., Auld, J., Mohammadian, A., 2018. Activity start time and duration: Incorporating regret theory into joint discrete-continuous models. *Transportmetrica A: Transport Science*, 14(9), 809-827. doi: [10.1080/23249935.2018.1440261](https://doi.org/10.1080/23249935.2018.1440261)
- J7. Shabanpour, R., Golshani, N., Shamshiripour, A., Mohammadian, A., 2018. Eliciting Preferences for Adoption of Fully Automated Vehicles using Best-Worst Analysis, *Transportation Research Part C: Emerging Technologies*, 93, 463-478. doi: [10.1016/j.trc.2018.06.014](https://doi.org/10.1016/j.trc.2018.06.014)
- J8. Shabanpour, R., Golshani, N., Tayarani, M., Auld, J., Mohammadian, A., 2018. Analysis of Telecommuting and Impacts on Travel Demand and the Environment, *Transportation Research Part D: Transport and Environment*, 62, 563-576. doi: [10.1016/j.trd.2018.04.003](https://doi.org/10.1016/j.trd.2018.04.003)
- J9. Mahmoudifard, S.M., Shabanpour, R., Golshani, N., Mohammadian, K., Mohammadian, A., 2018. Supplier evaluation model in Freight Activity Microsimulation Estimator, *Transportation Research Record: Journal of the Transportation Research Board*. doi: [10.1177/0361198118777084](https://doi.org/10.1177/0361198118777084)
- J10. Jalayer, M., Shabanpour, R., Pour-Rouholamin, M., Golshani, N., Zhou, H., 2018. Analysis of injury severity levels in wrong-way driving crashes, *Accident Analysis and Preventions*, 117, 128-135. doi: [10.1016/j.aap.2018.04.019](https://doi.org/10.1016/j.aap.2018.04.019)
- J11. Shabanpour, R., Golshani, N., Langerudi, M.F., Mohammadian, A., 2018. Planning in-home activities in the ADAPTS activity-based model: a joint model of activity type and duration, *International Journal of Urban Sciences*, 22(2), 236-254. doi: [10.1080/12265934.2017.1313707](https://doi.org/10.1080/12265934.2017.1313707)
- J12. Amirgholy, M., Golshani, N., Schneider, C., Gonzales, E.J., Gao, H.O., 2017. An advanced traveler navigation system adapted to route choice preferences of the individual users, *International Journal of Transportation Science and Technology*, 6(4), 240-254. doi: [10.1016/j.ijtst.2017.10.001](https://doi.org/10.1016/j.ijtst.2017.10.001)

- J13. Shabanpour, R., Golshani, N., Auld, J., Mohammadian, A., 2017. Dynamics of activity time-of-day choice, *Transportation Research Record: Journal of the Transportation Research Board*, No. 2665, 51-59. doi: [10.3141/2665-06](https://doi.org/10.3141/2665-06)
- J14. Shabanpour, R., Golshani, N., Derrible, S., Mohammadian, A., Miralinaghi, M., 2017. Joint discrete-continuous model of travel mode and departure time choices, *Transportation Research Record: Journal of the Transportation Research Board*, 2669, 41-51. doi: [10.3141/2669-05](https://doi.org/10.3141/2669-05)
- J15. Sarwar, T., Anastasopoulos, P., Golshani, N., Hulme, K., 2017. Grouped random parameters bivariate probit analysis of perceived and observed aggressive driving behavior: A driving simulation study, *Analytic Methods in Accident Research*, 13, 52-64. doi: [10.1016/j.amar.2016.12.001](https://doi.org/10.1016/j.amar.2016.12.001)

Peer-reviewed Conference Papers

- C1. Golshani, N., Shabanpour, R., Mohammadian, A., Auld, J., Ley, H., 2019. Evacuation tour formation behavior during no-notice emergency events, *Transportation Research Board 98th Meeting*, Washington DC.
- C2. Shabanpour R, Golshani N, Mohammadian A., 2019. Consumers' Willingness to Adopt Autonomous and Electric Vehicles: A Cross-Generational Analysis, *Transportation Research Board 98th Meeting*, Washington DC.
- C3. Shabanpour R, Golshani N, Mohammadian A., 2019. The Role of Perceptual Factors in the Adoption of Autonomous Vehicles, *International Choice Modeling Conference*, Kobe, Japan.
- C4. Shamshiripour, A., Golshani, N., Shabanpour, R., Mohammadian, A., 2019. Week-Long Mode Choice Behavior: A Dynamic Random Effects Logit Model, *Transportation Research Board 98th Meeting*, Washington DC.
- C5. Shamshiripour, A., Shabanpour, R., Golshani, N., Auld, J., Mohammadian, A., 2019. A Flexible Activity Scheduling Conflict Resolution Framework, *Transportation Research Board 98th Meeting*, Washington DC.
- C6. Auld, J., Ley, H., Verbas, O., Golshani, N., Bechara, J., Fontes, A., 2019. A Stated-Preference Intercept Survey of Transit-Rider Response to Service Disruptions, *Transportation Research Board 98th Meeting*, Washington DC.
- C7. Jalayer, M., Shabanpour, R., Pour-Rouholamin, M., Golshani, N., Zhou, H., 2019. Wrong-Way Driving Crashes: A Random-Parameters Ordered Probit Analysis of Injury Severity, *Transportation Research Board 98th Meeting*, Washington DC.
- C8. Golshani, N., Shabanpour, R., Auld, J., Mohammadian, A., Ley, H., 2018. Modeling evacuation destination and departure time choices for no-notice emergency events. *Transportation Research Board 97th Meeting*, Washington DC.
- C9. Golshani, N., Shabanpour, R., Auld, J., Mohammadian, A., Ley, H., 2018. Investigating evacuation decision making behavior for no-notice emergency events. *Transportation Research Board 97th Meeting*, Washington DC.
- C10. Golshani, N., Shabanpour, R., Auld, J., Mohammadian, A., 2018. A Joint Model of Activity Start Time and Duration: Incorporating Regret Theory into Joint Discrete-Continuous Copula Models, *Transportation Research Board 97th Meeting*, Washington DC.
- C11. Shabanpour, R., Golshani, N., Shamshiripour, A., Mohammadian, A., 2018. Eliciting preferences for adoption of fully automated vehicles using best-worst analysis, *Transportation Research Board 97th Meeting*, Washington DC.
- C12. Shabanpour, R., Golshani, N., Mohammadian, A., 2018. Ride-sourcing Services: A Mode Choice Analysis Accounting for Inter-Alternative Correlation and Unobserved Heterogeneity, *Transportation Research Board 97th Meeting*, Washington DC.
- C13. Shabanpour, R., Golshani, N., Tayarani, M., Auld, J., Mohammadian, A., 2018., Developing an Integrated Framework for Assessing Potential Impacts of Telecommuting, *Transportation Research Board 97th Meeting*, Washington DC.

- C14. Shamshiripour, A., Shabanpour, R., Golshani, N., Mohammadian, A., 2018. Modeling Students' Travel Behavior: A Latent-Class MDCEV Model of Active Travel and Accompaniment, *Transportation Research Board 97th Meeting*, Washington DC.
- C15. Golshani, N., Shabanpour, R., Mohammadian, A., Auld, J., 2017. Activity start time and duration: Incorporating hybrid utility-regret decision rules in joint models, *International Choice Modeling Conference*, Cape Town, South Africa.
- C16. Golshani, N., Shabanpour, R., Mahmoudifard, S.M., Derrible, S., Mohammadian, A., 2017. Comparison of artificial neural networks and statistical copula-based joint models, *Transportation Research Board 96th Meeting*, Washington DC.
- C17. Golshani, N., Sarwar, M.T., Anastasopoulos, P., Hulme, K., 2017. An Exploratory Empirical Analysis of Measured and Perceived Aggressive Driving Behavior in a Driving Simulation Environment, *Transportation Research Board 96th Meeting*, Washington DC.
- C18. Shabanpour, R., Mousavi, S.N.D., Golshani, N., Auld, J., Mohammadian, A., 2017. Consumer preferences of electric and automated vehicles, *5th IEEE international Conference on models and technologies for intelligent transportation systems (MT-ITS)*, Napoli, Italy. doi: [10.1109/MTITS.2017.8005606](https://doi.org/10.1109/MTITS.2017.8005606)
- C19. Shabanpour, R., Golshani, N., Mohammadian, A., 2017. Willingness-to-pay for automated vehicles: A random parameters and random thresholds HOPIT model, *International Choice Modeling Conference*, Cape Town, South Africa.
- C20. Shabanpour, R., Golshani, N., Derrible, S., Mohammadian, A., Miralinaghi, M., 2017. A cluster-based joint model of travel mode choice and departure time choices, *Transportation Research Board 96th Meeting*, Washington DC.
- C21. Shabanpour, R., Golshani, N., Auld, J., Mohammadian, A., 2017. Dynamics of time-of-day choices in agent-based dynamic activity planning and travel simulation (ADAPTS) framework, *Transportation Research Board 96th Meeting*, Washington DC.
- C22. Shabanpour, R., Golshani, N., Langerudi, M.F., Javanmardi, M., Mohammadian, A., 2017. Modeling type and duration of in-home activities in ADAPTS activity-based framework, *Transportation Research Board 96th Meeting*, Washington DC.
- C23. Amirgholy, M., Golshani, N., Schneider, G., Gonzales, E.J., 2017. An advanced traveler navigation system adapted to route choice preferences of the individual users, *Transportation Research Board 96th Meeting*, Washington DC.
- C24. Mahmoudifard, S.M., Shabanpour, R., Golshani, N., Mohammadian, K., Mohammadian, A., 2017. Supplier evaluation problem, a decision tree and an ordered probit analysis on a freight establishment survey, *Transportation Research Board 96th Meeting*, Washington DC.
- C25. Mahmoudifard, S.M., Shabanpour, R., Golshani, N., Mohammadian, A., 2017. An activity microsimulation framework for the us grain transportation: An expansion of the freight activity microsimulation estimator (FAME) model, *Transportation Research Board 96th Meeting*, Washington DC.
- C26. Golshani, N., Anastasopoulos P. and Hulme K., 2015. Fixed Effects Bivariate Ordered Probit Analysis of Perceived and Observed Aggressive Driving Behavior: A Driving Simulation Study, *Transportation research board 94th Meeting*, Washington DC.
- C27. Nahidi, S, Golshani, N., Anastasopoulos, P., 2015. An Empirical Exploratory Analysis of Factors Affecting High-crash Locations Using Random Parameters Ordered Probit Regression, *Transportation Research Board 94th Meeting*, Washington DC.

Presentations and Abstract-reviewed Conference Papers

- P1. Golshani, N., Shabanpour, R., Auld, J., Mohammadian, A., Ley, H., 2018. Analysis of Evacuation Tour Formation for No-Notice Emergency Events. *15th International Conference on Travel Behavior Research (IATBR)*, Santa Barbara, CA.

- P2. Golshani, N., 2018. Analysis of Evacuation Behavior for No-notice Emergency Events, Doctoral Research in Transport Modeling Workshop, *Transportation Research Board 97th meeting*, Washington DC.
- P3. Shabanpour, R., Golshani, N., Mohammadian, A., 2018. Investigating adoption behavior of advanced vehicle technologies. *15th International Conference on Travel Behavior Research (IATBR)*, Santa Barbara, CA.
- P4. Shamshiripour, A., Golshani, N., Shabanpour, R., Mohammadian, A., 2018. Week-Long Mode Choice Behavior: a Latent Class Dynamic Mixed Logit Model. *15th International Conference on Travel Behavior Research (IATBR)*, Santa Barbara, CA.
- P5. Shamshiripour, A., Shabanpour, R., Golshani, N., Mohammadian, A., 2018. A Flexible Activity Scheduling Conflict Resolution Framework. *15th International Conference on Travel Behavior Research (IATBR)*, Santa Barbara, CA.
- P6. Stephens, T., Auld, J., Leiby, P., Lin, Z., Gonder, J., Kontou, E., Shabanpour, R., Mohammadian, A., Golshani, N., 2018. Estimating Potential Energy and Mobility Impacts of CAVs in the US, *Automated Vehicles Symposium*, San Francisco, CA.
- P7. Shabanpour, R., Golshani, N., Mohammadian, A., Auld, J., Verbas, O., 2017. Analyzing Telecommuting Behavior and Impacts on Regional Travel Demand through Simulation, *5th IEEE international Conference on models and technologies for intelligent transportation systems (MT-ITS)*, Napoli, Italy
- P8. Golshani, N., Anastasopoulos, P., Hulme, K., 2016. A grouped random parameters bivariate probit analysis of perceived and observed aggressive driving behavior: A driving simulation study. *17th Road Safety in Five Continents (RS5C) Conference*, Rio de Janeiro, Brazil.
- P9. Nahidi, A., Golshani, N., Sarwar, T., Anastasopoulos, P., 2016. An empirical exploratory analysis of factors determining high-crash locations using the random parameters ordered probit model. *17th Road Safety in Five Continents (RS5C) Conference*, Rio de Janeiro, Brazil.
- P10. Sarwar, T., Golshani, N., Anastasopoulos, P., 2016. A random thresholds random parameters ordered probit analysis of highway accident injury-severities. *17th Road Safety in Five Continents (RS5C) Conference*, Rio de Janeiro, Brazil.
- P11. Shabanpour, R., Golshani, N., Mohammadian, A., 2016. Modeling environmental impacts of transportation management policies, *Transport Chicago*, Chicago, Illinois.
- P12. Eker, U., Androutselis, T., Golshani, N., Anastasopoulos, P., 2015. Do the same factors affect accident frequencies on highway segments with different traffic volumes and traffic compositions?, *56th Transportation Research Forum*, Atlanta, Georgia.