

QUARTERLY PROGRESS PERFORMANCE REPORT (QPPR #3)



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Center Title: Center for Teaching Old Models New Tricks (TOMNET)

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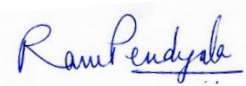
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Reporting Period: April 1, 2018 – September 30, 2018

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Submitting Official: 
Ram M. Pendyala, PhD, Director

APPENDIX

List of Presentations Delivered by TOMNET Faculty and Students

The following is a list of presentations delivered by or involving TOMNET core faculty members during the reporting period covered by this PPPR.

Arizona State University

1. Etezady, A., Widita, A., Circella, G., & Pendyala, R. The Integration of Regional MPO Models in the Georgia Statewide Travel Demand Model. Presented at *Innovation in Travel Modeling Conference*, 2018, Atlanta, GA.
2. Sharda, S., Khoeini, S & Pendyala, R. An Integrated Model System of Transport Demand and Household Energy Consumption. Presented at *Innovation in Travel Modeling Conference*, 2018, Atlanta, GA.
3. Khoeini, S., Silva, D. C., Sharda, S., & Pendyala, R. Development of a Model of Activity-Travel Well-Being to Assess Impacts of System Changes on Quality of Life. Presented at *Innovation in Travel Modeling Conference*, 2018, Atlanta, GA.
4. Copperman, R., Lemp, J., Rossi, T., Bhat, C. R., Astroza, S., Singh, A., Pendyala, R., & Khoeini, S. Adapting an Existing Activity Based Modeling Structure for the New York Region. Presented at *Innovation in Travel Modeling Conference*, 2018, Atlanta, GA.
5. Dias, F., Lavieri, P., Bhat, C., Pendyala, R. Understanding Patterns Associated with Ride-Hailing Users and Their Trips. Presented at *International Conference on Travel Behavior Research*, 2018, Santa Barbara, CA.
6. Khoeini, S., Silva, D., Sharda, S., Pendyala, R., Bhat, C. An Exploration of the Role of Childhood Context and Experiences in Shaping Attitudes and Travel Behavior in Adulthood. Presented at *International Conference on Travel Behavior Research*, 2018, Santa Barbara, CA.
7. Khoeini, S., Silva, D., Kim, T., Pendyala, R., Bhat, C. Are Millennials Really Different in Their Activity-Travel and Time Use Behaviors? Presented at *International Conference on Travel Behavior Research*, 2018, Santa Barbara, CA.
8. Khoeini, S., Sharda, S., Silva, D., Pendyala, R., Bhat, C. Unraveling the Relationship between Attitudes and Behavioral Choices Using a Latent Segmentation Approach. Presented at *International Conference on Travel Behavior Research*, 2018, Santa Barbara, CA.
9. Bhat, C., Nair, G., Pendyala, R. Alternative Decision Mechanisms to Model Ranking Data. Presented at *International Conference on Travel Behavior Research*, 2018, Santa Barbara, CA.
10. Salon, D., Conway, M., Wang, K., and Roth, N. Heterogeneity in the relationship between biking and the built environment. Presented at *International Association of Travel Behavior Researchers Conference*, 2018, Santa Barbara, CA.

Georgia Institute of Technology

11. Mokhtarian, P.L. Opening keynote speaker: Why Do Travel Surveys Matter in the Age of Big Data? Presented at *National Household Travel Survey Workshop* (organized by the Transportation Research Board and supported by the Federal Highway Administration), 2018, Washington, D.C.
12. Shaw, F. A., Malokin, A., Mokhtarian, P.L., and Circella, G. Who doesn't mind waiting? A revealed preference study of Northern California commuters. Presented at *International Conference of the International Association for Travel Behaviour Research*, 2018, Santa Barbara, CA.
13. Etezady, A., Mokhtarian, P.L., Circella, G., and Malokin, A. Not all minutes are created equal: How does the impact of travel time on mode choice differ by demographics and propensity to multitask? Presented at *15th International Conference of the International Association for Travel Behaviour Research*, 2018, Santa Barbara, CA.
14. Kim, S.H., Circella, G., and Mokhtarian, P.L. What if all cars were autonomous? Mode-use propensity in an all-AV future. Presented at *15th International Conference of the International Association for Travel Behaviour Research*, 2018, Santa Barbara, CA.
15. Mokhtarian, P.L. The expanding uses of travel time: What do they portend for policy, planning, and life? Presented at mobil.TUM, *Technische Universität München*, 2018, Munich, Germany.

16. Mokhtarian, P.L. Panelist for plenary session: Soft and Powerful: On Incorporating Values and Perceptions into Travel Forecasting (presentation title: Attitudes in Travel Forecasting Models: Can't live with 'em; can't live without 'em). Presented at *7th Innovations in Travel Modeling Conference*, 2018, Atlanta, GA.
17. Mokhtarian, P.L. It's not all fun and games: An investigation of the reported benefits and disadvantages of conducting activities while commuting. Presented at *University of California, Davis, Institute of Transportation Studies*, 2018, Davis, CA.
18. Mokhtarian, P.L. It's not all fun and games: An investigation of the reported benefits and disadvantages of conducting activities while commuting. Presented at *Clemson University, Center for Connected Multimodal Mobility Distinguished Speaker Series*, 2018, Clemson, SC.

University of South Florida

19. Maness, M. New Models of Random Taste Variation and Constraint Change Induced by Social Influence. Presented at *15th International Conference on Travel Behaviour Research*, 2018, Santa Barbara, CA.
20. Sheela, P. V., Balusu, S. K., Maness, M. and Pinjari, A. When Neutral Responses on a Likert Scale Do Not Mean Opinion Neutrality: Accounting for Unsure Responses in a Hybrid Choice Modeling Framework. Presented at *15th International Conference on Travel Behaviour Research*, 2018, Santa Barbara, CA.
21. Tahlyan, D., Sheela, P. V., Maness, M. and Pinjari, A. Improving the spatial transferability of travel demand forecasting models: An empirical assessment of the impact of incorporating attitudes on model transferability. Presented at *15th International Conference on Travel Behaviour Research*, 2018, Santa Barbara, CA.
22. Maness, M. Choice Modeling Perspectives on Social Networks, Social Influence, and Social Capital in Activity and Travel Behavior. Presented at *15th International Conference on Travel Behaviour Research*, 2018, Santa Barbara, CA.
23. Sheela, P. V., Balusu, S. K., Maness, M. and Pinjari, A. When Neutral Responses on a Likert Scale Do Not Mean Opinion Neutrality: Accounting for Unsure Responses in a Hybrid Choice Modeling Framework. Presented at *7th International Conference on Innovations in Travel Modeling*, 2018, Atlanta, GA.
24. Tahlyan, D., Sheela, P. V., Maness, M. and Pinjari, A. Improving the spatial transferability of travel demand forecasting models: An empirical assessment of the impact of incorporating attitudes on model transferability. Presented at *7th International Conference on Innovations in Travel Modeling*, 2018, Atlanta, GA.
25. Maness, M. Enhancing the Social Realism of Activity and Travel Behavior Models by Incorporating Social Capital and Social Influence. Presented at *CSEE Seminar Series at SUNY University at Buffalo*, 2018, Buffalo, NY.

University of Washington

26. Abramson, D. Planning with I/indigeneity in Mind: Long Histories, Small Places, and Shared Futures, lightning talk for Urban Growth Challenges and Social Justice: Learning from the Past and Looking to the Future. Presented at *University of Washington, Annual Symposium of the Interdisciplinary PhD Program in Urban Design and Planning*, 2018, Seattle, WA.
27. Chen, C., Abramson, D. and Idziorek, K. Understanding Community Behaviors and Attitudes for Resilience: Developing a Scalable Survey Methodology. Presented at *Arizona State University, US DoT Tier 1 University Transportation Center for Teaching Old Models New Tricks (TOMNET) Annual Meeting and Research Workshop*, 2018, Tempe, AZ.
28. Abramson, D. Skinner and the Pursuit of Place-based Urbanization: a Planner's Perspective, China in Time and Space: G. William Skinner's Ideas Going Forward. Presented at *Hong Kong University of Science and Technology Conference*, 2018, Hong Kong, China.
29. Abramson, D. Human Settlements and Rural Planning in the Chengdu Plain, for Past, Present and Future: Research on the Evolution of Rural Human Settlements in the Dujiangyan Irrigation District. Presented at *Workshop at Sichuan University School of History and Culture*, 2018, Chengdu, China.
30. Abramson, D. Long-term Social-Ecological Resilience in the Dujiangyan Irrigation District: Implications for Land Policy, Settlement Planning, and Community Governance/Development. Presented at the *Chinese Academy of Science Institute of Mountain Hazards and Environment*, 2018, Chengdu, China.
31. Zhu, X., Wang, F. and Chen, C. Personalized controls to promote sustainable travel behaviors. Presented at *15th IFAC Symposium on Control in Transportation Systems*, 2018, Savona, Italy.

32. Guan, X. and Chen, C. Inferring the Failure Propagation Dynamics in Interdependent Infrastructure Networks: A Backward Approach. Presented at *97th Annual Meeting of the Transportation Research Board*, 2018, Washington, D.C.
33. Wang, F. and Chen, C. Passively Generated Cell Phone Data: Data Issues and Processing Required. Presented at *97th Annual Meeting of the Transportation Research Board*, 2018, Washington, D.C.
34. Ban, J. and Chen, C. Promises of big data for transportation planning applications. Presented at *97th Annual Meeting of the Transportation Research Board*, 2018, Washington, D.C.
35. Guan, X. and Chen, C. From Warnings to Awareness and Actions: Insights from Hurricane Sandy. Presented at *96th Annual Meeting of the Transportation Research Board*, 2017, Washington, D.C.
36. Yan, P. and Chen, C. Stable Matching and Price of Stability in Real-time Ridersharing Systems. Presented at *96th Annual Meeting of the Transportation Research Board*, 2017, Washington, D.C.
37. Liao, C.; Chen, C.; and Fan, Y. Review of State of the Art Smartphone Apps for Travel Data collection and Energy-efficient Strategies. Presented at *96th Annual Meeting of the Transportation Research Board*, 2017, Washington, D.C.
38. Chen, C. A Universal Methodology for Learning Cascading Failure Dynamics in Complex Systems. Presented at *International Conference on Complex Systems Workshop on Network Cascades: Unfolding, Modeling and Control*, 2018, Boston, MA.
39. Chen, C. Emerging Research in Infrastructure Systems in the United States. Presented at *Hong Kong Polytechnic University*, 2018, Hong Kong, China.
40. Chen, C. Controls in Civil Infrastructure Systems. Presented at *American Control Conference*, 2018, Milwaukee, WI.
41. Chen, C. Big Data, Mobility Patterns and Modeling of Influenza Spreading. Presented at *NIH MIDAS PI Conference*, 2018, Bethesda, MD.
42. Chen, C. Civil Infrastructure Systems (CIS): Past, Present and Future Perspectives. Presented at *Arizona State University, School of Sustainable Engineering and the Built Environment (SSEBE) distinguished lecture series*, 2017, Tempe, AZ.
43. Chen, C. Universal methodology for inferring failure propagation patterns. Presented at *Northwestern University Transportation Center, Northwestern University*, 2017, Evanston, IL.