



NATIONAL CENTER FOR UNDERSTANDING FUTURE
TRAVEL BEHAVIOR AND DEMAND

Contributions to TRB 2026

by TBD National Center Key Personnel

105th Annual Meeting of the

Transportation Research Board

Washington, D.C., January 11-15, 2026

ABOUT

The Center for Understanding Future Travel Behavior and Demand (TBD) is a National University Transportation Center established in 2023 by USDOT. TBD's research focuses on understanding evolving travel behaviors driven by technological advances, demographic and cultural shifts, and environmental concerns. TBD is committed to undertaking breakthrough research that will fundamentally re-examine and transform the scientific base for measuring, monitoring, modeling, and managing traveler behavior. The Center's initiatives aim to support the design, development, and operation of a people-centric, multimodal, intelligent transportation system that meets the needs of people, institutions, and businesses for generations to come. TBD is led by The University of Texas at Austin and includes Arizona State University, Georgia Tech, University of Washington, University of Michigan, Cal Poly Pomona, City College of New York, and Diné College as consortium members.



EVENTS

Memorial and Tribute for Professor Hani S. Mahmassani (1956 - 2025)

Hani's Contributions to Demand Modeling

Sunday, January 11, 7:00 PM- 8:30 PM ET | Marriott Marquis, Marquis Salon 9&10
Patricia Mokhtarian, Georgia Institute of Technology
Roger Chen, University of Hawai'i, Manoa

SESSIONS

Lectern Session 2005

Measuring Success on Multimodal Streets

Monday, January 12, 8:00 AM- 9:45 AM ET | Convention Center, 145A
Alison Conway, City College of New York (Presiding)

Poster Session 2078

Travel Data and Networks: Collection, Modeling, and Mobility Insights

Monday, January 12, 10:30 AM- 12:15 PM ET | Convention Center, Hall A
Who Stays and Who Leaves? Examining Sample-Source Effect on Attrition in a Longitudinal Panel Survey

Victor Alhassan, Arizona State University
Irfan Batur, Arizona State University
Hyunjun Hwang, University of Texas, Austin
Dale Robbennolt, University of Texas, Austin
Jose Roberto Dimas Valle, Arizona State University
Deborah Salon, Arizona State University
Chandra Bhat, University of Texas, Austin
Ram Pendyala, Arizona State University

Impacts of Survey Compensatory Strategies on Statistical Bias and Precision of Travel Behavior Estimates

Amy Fong, University of Michigan, Ann Arbor

Atiyya Shaw, University of Michigan, Ann Arbor

The Effects of Completeness Filtering on Behavioral and Population Representativeness in Location-Based Services Data

Brynn Woolley, University of Michigan, Ann Arbor

Atiyya Shaw, University of Michigan, Ann Arbor

Sungho Lim, University of Michigan, Ann Arbor

Lectern Session 2090

Integrating Infrastructure, Policy, and Technology for Future-Proof Mobility Management

Monday, January 12, 1:30 PM- 3:15 PM ET | Convention Center, 145B

Modeling the Spread of Sustainable Transportation Preferences: Insights from Survey Data in the US State of Georgia

Hussein Kobeissi, Northwestern University

Alene Holmgren, Jacobs

Ilsu Kim, Georgia Institute of Technology

Patricia Mokhtarian, Georgia Institute of Technology

Ying Chen, Northwestern University

Poster Session 2113

Sensing, Detection, and Perception for Intelligent Transportation

Monday, January 12, 1:30 PM- 3:15 PM ET | Convention Center, Hall A

Enhancing OC-SORT for Robust Multi-Object Tracking in Urban Traffic Scenes

Yichi Cheng, No Organization

Wen Cheng, California State Polytechnic University, Pomona

Yongping Zhang, California State Polytechnic University, Pomona

Yunsheng Wang, California State Polytechnic University, Pomona

Wenxi Zhao, No Organization

Lectern Session 2148

Women, Safety, and Social Dimensions of Mobility

Monday, January 12, 4:00 PM- 5:45 PM ET | Convention Center, 201

Strategies and Mechanisms to Mitigate Interpersonal Violence in Public Transit

Jose Roberto Dimas Valle, Arizona State University

Irfan Batur, Arizona State University

Steven E. Polzin, Arizona State University

Miguel Guillermo Rodriguez Ocana, Arizona State University

Victor Alhassan, Arizona State University

Ram Pendyala, Arizona State University

Poster Session 2158

AI and Machine Learning for Safer, Smarter Transportation

Monday, January 12, 4:00 PM- 5:45 PM ET | Convention Center, Hall A

A New Flexible Skewed Bimodal Distribution with Multivariate Extensions: Theory and Application to Traffic Crash Injury Severity Analysis

Chandra Bhat, University of Texas, Austin

Poster Session 2159

Weathering the Storm: Transportation Adaptation and Resilience to Extreme Conditions

Monday, January 12, 4:00 PM- 5:45 PM ET | Convention Center, Hall A

The Role of Prior Experience in Shaping Anticipated Travel and Activity Behavior Changes in Future Extreme Heat Events

Jinghai Huo, Arizona State University

Irfan Batur, Arizona State University

Dale Robbennolt, University of Texas, Austin

Fan Yu, Arizona State University

Miguel Guillermo Rodriguez Ocana, Arizona State University

Hyunjun Hwang, University of Texas, Austin

Eleanor Hennessy, Arizona State University

Cynthia Chen, University of Washington

Steven E. Polzin, Arizona State University
Xuesong Zhou, Arizona State University
Mikhail Chester, Arizona State University
Chandra Bhat, University of Texas, Austin
Ram Pendyala, Arizona State University

Temporal and Spatial Adaptations Under Extreme Heat: Multi-Perspective
Evidence from Seattle's August 2023 Heatwave

Yuteng Zhang, University of Washington
Lyra Chen, University of Washington
Cynthia Chen, University of Washington

Poster Session 2163

Innovations in Planning Practice and Policy Implementation

Monday, January 12, 4:00 PM- 5:45 PM ET | Convention Center, Hall A

Metropolitan Planning Organizations' (MPO) Uses of and Needs for Big
Data

Ekin Ugurel, University of Washington
Xinhua Wu, Northeastern University
Qi Wang, Northeastern University
Brian Lee, Puget Sound Regional Council
Cynthia Chen, University of Washington

On Predicting Demographics from Mobility Signals

Ekin Ugurel, University of Washington
Cynthia Chen, University of Washington
Filipe Rodrigues, Danmarks Tekniske Universitet

Poster Session 2170

The Impact of Location, Infrastructure, Housing, and Social Factors on Community Travel Behavior and Access

Monday, January 12, 6:15 PM- 7:45 PM ET | Convention Center, Hall A

Transportation Priorities of Suburban Residents: Insights and Implications

Fan Yu, Arizona State University
Irfan Batur, Arizona State University
Dale Robbennolt, University of Texas, Austin
Miguel Guillermo Rodriguez Ocana, Arizona State University

Hyunjun Hwang, University of Texas, Austin
Chandra Bhat, University of Texas, Austin
Ram Pendyala, Arizona State University

Lectern Session 3005

Chief Information Officers on AI: Wins, Fails, and Lessons Learned

Tuesday, January 13, 8:00 AM- 9:45 AM ET | Convention Center, 151

Academic Perspective

Cynthia Chen, University of Washington

Poster Session 3025

Pedestrian Research Roundup

Tuesday, January 13, 8:00 AM- 9:45 AM ET | Convention Center, Hall A

Disparities in Pedestrian Crossing and Driver Yielding Behaviors: Evidence from a Large-Scale Observational Study at Urban Intersections

Angela Haddad, Kittelson & Associates, Inc.
Emily Podnar, University of Texas, Austin
Anna Beliveau, University of Texas, Austin
Devina Sharma, University of Texas, Austin
Chandra Bhat, University of Texas, Austin

Poster Session 3027

Intelligent Transportation Platforms for Data-Driven Operational Insights

Tuesday, January 13, 8:00 AM- 9:45 AM ET | Convention Center, Hall A

Vehicle Edge Computing for Intelligent Transportation Systems (ITS)

Rafael Trinidad, California State Polytechnic University, Pomona
Michael Ly, California State Polytechnic University, Pomona
Yichi Cheng, No Organization
Yunsheng Wang, California State Polytechnic University, Pomona
Yongping Zhang, California State Polytechnic University, Pomona
Wen Cheng, California State Polytechnic University, Pomona

Poster Session 3029

Urban Accessibility and Infrastructure Resilience Frameworks for Assessment

Tuesday, January 13, 8:00 AM- 9:45 AM ET | Convention Center, Hall A
Understanding Human Activity and Travel Adaptation Strategies in Response to Extreme Events

Eleanor Hennessy, Arizona State University
Irfan Batur, Arizona State University
Miguel Guillermo Rodriguez Ocana, Arizona State University
Fan Yu, Arizona State University
Steven E. Polzin, Arizona State University
Cynthia Chen, University of Washington
Xuesong Zhou, Arizona State University
Mikhail Chester, Arizona State University
Ram Pendyala, Arizona State University

Poster Session 3163

Last-Mile and Behavioral Logistics

Tuesday, January 13, 8:00 AM- 9:45 AM ET | Convention Center, Hall A
Crowd-Relay Relief Delivery System with the Courier Incentive Scheme

Dong-Hoon Son, University of Washington
Cynthia Chen, University of Washington

Lectern Session 3056

Exploring Transportation Access, Development, and Insecurities

Tuesday, January 13, 10:30 AM- 12:15 PM ET | Convention Center, 201
Trapped by Transport: Exploring the Everyday Impact of Mobility Challenges and Transportation Insecurities in the United States

Dale Robbennolt, University of Texas, Austin
Hyunjun Hwang, University of Texas, Austin
Miguel Guillermo Rodriguez Ocana, Arizona State University
Irfan Batur, Arizona State University
Ram Pendyala, Arizona State University
Chandra Bhat, University of Texas, Austin

Poster Session 3126

Planning for Electric Vehicles: Behavior, Preferences, and Infrastructure

Tuesday, January 13, 1:30 PM- 3:15 PM ET | Convention Center, Hall A

A Model of Electric Vehicle Adoption and Motivating Reasons for Adoption

Dale Robbennolt, University of Texas, Austin

Scott Hardman, University of California, Davis

Jeremy Firestone, University of Delaware

Chandra Bhat, University of Texas, Austin

Poster Session 3153

Understanding Activity Patterns and Travel Behavior Through Surveys and Modeling

Tuesday, January 13, 4:00 PM- 5:45 PM ET | Convention Center, Hall A

Evolving Work Arrangements and Their Implications for Travel Behavior:
A Typology-Based Analysis Using the American Time Use Survey

Xinyi Wang, Massachusetts Institute of Technology

Irfan Batur, Arizona State University

Patricia Mokhtarian, Georgia Institute of Technology

Ram Pendyala, Arizona State University

Jinhua Zhao, Massachusetts Institute of Technology

Impact of Street Repurposing on Travel Patterns in Seattle: A Study Using
Location-Based Service Data

Lyra Chen, University of Washington, Seattle

Cynthia Chen, University of Washington

Steve Mooney, University of Washington

Poster Session 4030

Bridging Network Analysis and Travel Choices

Wednesday, January 14, 8:00 AM- 9:45 AM ET | Convention Center, Hall A

BHATLIB: An Open-Source Library for Statistical and Econometric Matrix-Based Inference Methods in GAUSS

Chandra Bhat, University of Texas, Austin

Eric Clower, No Organization

Angela Haddad, Kittelson & Associates, Inc.

Jason Jones, No Organization

Data Collection, Weighting, and Modeling Techniques to Estimate Unbiased Population Parameters

Dale Robbennolt, University of Texas, Austin

Ram Pendyala, Arizona State University

Chandra Bhat, University of Texas, Austin

A Flexible and Interpretable Reference-Dependent Choice Model with Endogenous Estimation of Reference Points

Jinghai Huo, Arizona State University

Eui-Jin Kim, Ajou University

Irfan Batur, Arizona State University

Ram Pendyala, Arizona State University

Prateek Bansal, National University of Singapore

Poster Session 4031

Research in Transit User Experience: Mobility

Wednesday, January 14, 8:00 AM- 9:45 AM ET | Convention Center, Hall A

Understanding Robotaxi Adoption Among Workers in Three US Metropolitan Regions: A Sample Selection Approach

Seung Eun Choi, Georgia Institute of Technology

Patricia Mokhtarian, Georgia Institute of Technology

Poster Session 4058

Micromobility and Shared Mobility: Evolving Patterns and Management Strategies

Wednesday, January 14, 10:30 AM- 12:15 PM ET | Convention Center, Hall A

Interest in Increasing the Use of Alternative and Emerging Modes of Transportation in a Suburban Context

Miguel Guillermo Rodriguez Ocana, Arizona State University

Fan Yu, Arizona State University

Dale Robbennolt, University of Texas, Austin

Hyunjun Hwang, University of Texas, Austin

Irfan Batur, Arizona State University

Chandra Bhat, University of Texas, Austin

Ram Pendyala, Arizona State University

Poster Session 4059

Managing Urban Mobility: Congestion, Pricing, and Parking Strategies

Wednesday, January 14, 10:30 AM- 12:15 PM ET | Convention Center, Hall A

Understanding Public Perceptions of Congestion Pricing – A U.S. Perspective

Hyunjun Hwang, University of Texas, Austin

Irfan Batur, Arizona State University

Fan Yu, Arizona State University

Dale Robbennolt, University of Texas, Austin

Ram Pendyala, Arizona State University

Chandra Bhat, University of Texas, Austin

A Tale of Two Perspectives: The Mileage-based User Fee Conundrum

Hyunjun Hwang, University of Texas, Austin

Irfan Batur, Arizona State University

Dale Robbennolt, University of Texas, Austin

Angela Haddad, Kittelson & Associates, Inc.

Jose Roberto Dimas Valle, Arizona State University

Ram Pendyala, Arizona State University

Chandra Bhat, University of Texas, Austin

Who is Willing to Pay for Travel Time Savings and How Much? An Iterative Bidding Contingent Valuation Study in Mumbai

Dale Robbennolt, University of Texas, Austin

Hyunjun Hwang, University of Texas, Austin

Aishwarya Jaiswal, Indian Institute of Management, Ahmedabad

Sagar Verma, Indian Institute of Management, Ahmedabad

Sandip Chakrabarti, Indian Institute of Management

Chandra Bhat, University of Texas, Austin

Poster Session 4074

Modeling the New Normal: Remote Work, E-Commerce, and Post-Pandemic Travel Patterns

Wednesday, January 14, 4:00 PM- 5:45 PM ET | Convention Center, Hall A

The Reverse Side of Online Shopping: Examining Sociodemographic and Built-Environment Determinants of Delivery Returns

Angela Haddad, Kittelson & Associates, Inc.

Chandra Bhat, University of Texas, Austin

Understanding Delivery Driver Order Acceptance: A Dynamic Discrete Choice Approach with Markov Decision Processes

Dale Robbennolt, University of Texas, Austin

Jake Robbennolt, University of Texas, Austin

Zhaomiao Guo, University of Texas, Austin

Stephen Boyles, University of Texas, Austin

Chandra Bhat, University of Texas, Austin

Poster Session 4076

Modeling Approaches in Travel Behavior Research

Wednesday, January 14, 4:00 PM- 5:45 PM ET | Convention Center, Hall A

An Investigation of the Joint Relationships Between Personal Travel Choices, Home Delivery Frequencies, and Attitudes Toward Sustainability in the United States

Fateme Rezapour Fardin, City College of New York

Alison Conway, City College of New York