



Leta F. Huntsinger, Ph.D., P.E.
Director of Research, Systems Planning & Analysis
Institute for Transportation Research and Education
North Carolina State University
Centennial Campus Box 8601
Raleigh, NC 27695-8601
919.515.8625
leta_huntsinger@ncsu.edu

EDUCATION

North Carolina State University; Raleigh, NC
Ph.D. Civil Engineering, May 2012
Masters Civil Engineering, May 1994
University of North Carolina - Wilmington; Wilmington, NC
Bachelors Physics, December 1987

PROFESSIONAL REGISTRATIONS

Professional Engineer: North Carolina (022068) and Texas (118452)
Certified Public Manager, 2003

PROFESSIONAL EXPERIENCE

Institute for Transportation Research and Education, North Carolina State University; Raleigh, NC
Director of Research, Systems Planning & Analysis, February 2020 – Present
Program Manager Triangle Regional Model Service Bureau, November 2003 – October 2006

WSP Parsons Brinckerhoff; Raleigh, NC
Transportation Planning Practice Lead for the Carolinas, September 2017 – February 2020
Senior Technical Principal in Systems Analysis, August 2012 – September 2017
Project Manager/Senior Travel Modeler, October 2006 – December 2008

Durham-Chapel Hill-Carrboro Metropolitan Planning Organization; Durham, NC
Technical Services Manager, January 2009 – August 2012

North Carolina Department of Transportation; Raleigh, NC
Model Research and Development Group Manager, 2000 – 2003
Senior Transportation Engineer, 1996 – 2000
Transportation Engineer, 1990 – 1996
Traffic Engineering Technician, 1989 – 1990

City of Wilmington; Wilmington, NC
Traffic Engineering Technician, 1987 – 1989

TEACHING EXPERIENCE

Professor of the Practice, Department of City and Regional Planning, University of North Carolina – Chapel Hill. 2015 – present.

Adjunct Assistant Professor, Department of Civil, Construction, and Environmental Engineering, North Carolina State University. 2020 – present.

National Highway Institute. Introduction to Urban Travel Demand Forecasting. NHI-152054. 2013-2015.

Co-Instructor, CE701: Urban Transport Planning, Department of Civil, Construction, and Environmental Engineering, North Carolina State University. 2006 – 2015.

Adjunct Professor, Department of Civil and Environmental Engineering, Duke University. 2003 – 2006.

PROJECTS

North Carolina Statewide Multimodal Transportation Plan, NCDOT: Project Manager.

US 15-501 Corridor Study, Durham, NC: Project Manager.

Rock Hill-Fort Mill Area Transportation Study (RFATS) SC: Travel Modeling Task Manager.

Wilmington Metropolitan Planning Organization (WMPO) Metropolitan Transportation Plan (MTP) Development Support On-Call: Project Manager.

City of Durham and the DCHC MPO On-call Technical Services: Contract Manager and Project Manager.

Capital Area Metropolitan Planning Organization, Triangle Strategic Tolling Study: Travel Modeling Task Manager.

NW 27th Avenue Corridor Study, Miami-Dade County, FL: Transit Market Analysis Task Manager.

North Carolina Department of Transportation, Greater Hickory MPO Model Development, NC: Project Manager.

Ohio Department of Transportation, Research Project on Estimating External Travel Using Purchased Third-Party Data: Modeling Data Task Lead.

Virginia Department of Transportation, Roanoke Valley Travel Model Development: Project Manager.

Ontario Ministry of Transport, Ontario Provincial Microsimulation Trip Based Model: Northern Ontario Task Manager.

Regional Transportation Commission, Reno Nevada, Hybrid Activity Based Travel Model Updates: Project Manager.

North Carolina Department of Transportation, French Broad River MPO Model Development: Project Manager.

North Carolina Department of Transportation, North Carolina Statewide Transportation Model Gen 2: Modeling Task Manager.

Kentucky Transportation Cabinet, Radcliff-Elizabethtown Metropolitan Planning Organization Travel Model Development: Modeling Task Manager.

Fayette-Raleigh Metropolitan Planning Organization and the West Virginia Department of Transportation, Travel Model Development: Modeling Task Manager.

Maryland State Highway Administration, Maryland Statewide Transportation Model (MSTM): Project Manager.

US Virgin Islands Transportation Master Plan: Hybrid Microsimulation Travel Model Development and Training: Modeling Task Manager.

North Carolina Department of Transportation, Transportation Planning Branch On-Call Technical Services in Travel Demand Modeling: Contract Manager and Project Manager.

North Carolina Department of Transportation, Modeling Standards and Guidelines: Project Manager.

Durham-Chapel Hill-Carrboro Metropolitan Planning Organization, Triangle Regional Freight Plan: Travel Modeling and Data Task Manager.

Texas Department of Transportation, DFW Core Express Service: Ridership Forecasting Task Manager.

Piedmont Authority for Regional Transportation, Triad Freight Study: Project Manager.

Maryland Transit Administration, Red Line Corridor Transit Study: Ridership Forecasting Task Manager.

North Carolina Department of Transportation, Travel Modeling Guidelines, Procedures, and Course Development: Project Manager.

Piedmont Authority for Regional Transportation, Travel Forecasts to support the update of the Triad Region's Long-Range Transportation Plan: Project Manager.

Jackson County, Small Area Travel Model Development: Project Manager.

PUBLICATIONS AND REPORTS

Huntsinger, L.F and K. Ward. (2016) Travel Model Blind Spots: Importance of Understanding Special Markets Related to Visitors. Transportation Research Record 2568: 41-47.

Huntsinger, L.F and K. Ward. (2014) Using Mobile Phone Location Data to Develop External Trip Models. Transportation Research Record 2499: 25-32.

Huntsinger, L.F. and N.M. Rouphail. Temporal Stability of Generation Choice Models. Transportation Research Record: Journal of the Transportation Research Board 2344: 79-87 (2013).

Huntsinger, L. F., Rouphail, N. M., & Bloomfield, P. (2013). Trip generation models using cumulative logistic regression. Journal of Urban Planning and Development, 139(3), 176-184.

Shumaker, M., J. Hummer & L. Huntsinger (2013) Barriers to Implementation of Unconventional Intersection Designs: A Survey of Transportation Professionals. Public Works Management & Policy. 18(3): 244-262.

Huntsinger, L.F. and N.M. Rouphail. Value of Life Cycle in Explaining Trip-Making Behavior and Improving Temporal Stability of Trip Generation Models. Transportation Research Record 2322: 60-69.

Huntsinger, L.F. and N.M. Rouphail. Bottleneck and Queuing Analysis: Calibrating Volume-Delay Functions of Travel Demand Models. Transportation Research Record 2255: 117-124.

Horner, J.W, J.R. Stone, and L.F. Huntsinger. Data Reuse Methods for Transportation Planning in Small- and Medium-Sized Towns. Journal of Urban Planning and Development, Vol 134, No. 4, December 2008, pp. 149-152.

Han, Y, J.R. Stone, & L. Huntsinger (2007). Manual Traffic Allocation for Small-Town Networks. Transportation Research Record Journal of the Transportation Research Board. 1997(1): 24-34.

Stone, J.R., Y. Han, L. Huntsinger, B. Mei, A. Khattak, & Y. Fan (2007). Guidelines for Developing Travel Demand Models: Small Communities. North Carolina Department of Transportation, Raleigh NC 27699.

Stone, J.R., Y. Han, A. Khattak, Y. Fan, L. Huntsinger, & B. Mei (2007). Guidelines for Developing Travel Demand Models: Medium Communities and Metropolitan Planning Organizations. North Carolina Department of Transportation, Raleigh NC 27699.

Eom, J., M. Park, T. Heo, & L. Huntsinger (2006). Improving the Prediction of Annual Average Daily Traffic for Non Freeway Facilities by Applying a Spatial Statistical Method. Transportation Research Record Journal of the Transportation Research Board, 1968(1): 20-29.

PRESENTATIONS (NATIONAL)

Huntsinger, L.F. Engaging the Public in Transportation Through Citizen Advisory Boards. TRB 15th National Tools of the Trade Conference, Kansas City, Missouri, August 2018.

Huntsinger, L.F. and X. Wang. Using Big Data: Exploring the Difference between Weekday and Weekend Travel. 16th TRB Transportation Planning Applications Conference, Raleigh, North Carolina, May 2017.

Bricka, S.G. and L. Huntsinger. How Old is Too Old: Selecting a Sample to Refresh Existing Household Survey Data. TRB 14th National Tools of the Trade Conference, Charleston, South Carolina, September 2016.

Huntsinger, L.F. and B. Bachman. Lessons Learned in Freight Data Collection. Association of Metropolitan Planning Organizations Annual Conference, Las Vegas, Nevada, October 2015.

Huntsinger, L.F. and D. Thomas. North Carolina Modeling Guidelines: The Next Generation and Beyond. TRB 14th National Tools of the Trade Conference, Charleston, South Carolina, September 2014.

Huntsinger, L.F. and R. Donnelly. Reconciliation of Regional Travel Model and Passive Device Tracking Data. 14th TRB Transportation Planning Applications Conference, Columbus, Ohio, May 2013. (Selected as one of the Conference Best Papers, and presented at the 2014 Transportation Research Board Annual Meeting)

Huntsinger, L.F. Cumulative Logistic Regression Models: A New Approach to Trip Generation for Small and Medium-Sized Communities. TRB 13th National Tools of the Trade Conference, Big Sky, Montana, September 2012. (Selected as one of the Conference Best Papers, presented at the 2013 Transportation Research Board Annual Meeting)

Huntsinger, L.F. Why are Unconventional Arterial Intersection Designs Not More Widespread? TRB Annual Meeting Compendium of Paper, Washington, DC, January 2011.

Huntsinger, L.F. NCDOT Modeling Standards and Guidelines. TRB 11th National Tools of the Trade Conference, Portland OR, September 2008.

Huntsinger, L.F. and S.G. Bricka. Capturing Special Population Groups through Targeted Samples. TRB Planning Applications Conference, Daytona Beach, FL, May 2007.

Horner, J.W, J.R. Stone, and L.F. Huntsinger. Impact on Travel Behavior of Proximity to Major Urban Centers: Feasibility Study of Data Transfer from Urban Centers to Nearby Small Towns. TRB Annual Meeting Compendium of Paper, Washington, DC, January 2006.

Huntsinger, L.F., J.R. Stone, and A.J. Khattak. Planning Analysis Tools for Small Communities. TRB 10th National Tools of the Trade Conference, Nashville, TN, September 2006.

Huntsinger, L.F. and J. Eom. Sampling Plan for Calibration Counts. TRB Planning Applications Conference, Portland, OR, April 2005.

Huntsinger, L.F. and H. Lu. TransCAD Tools for Managing Network Data. TRB 9th National Tools of the Trade Conference, Colorado Springs, CO, September 2004.

Huntsinger, L.F., J.R. Stone, and A.J. Khattak. Planning Analysis Tools for Small Communities. TRB 10th

National Tools of the Trade Conference, Nashville, TN, September 2006. (Selected as one of the Conference Best Papers and presented at the 2007 Transportation Research Board Annual Meeting)

ACTIVITIES

Zephyr Transport Board of Directors, August 2020 – present.

UNC-Wilmington Board of Visitors, 2019 – present.

Transportation Research Board: Committee Member, Urban Transportation Data (AED20), 2014 – present.

North Carolina Institute of Transportation Engineers, UNC-Chapel Hill Student Chapter Advisor

Women's Transportation Seminar

Transportation Research Board: Committee Member, Planning Applications (ADB50), 2004 – 2013.

Town of Cary, Imagine Cary Advisory Board, March 2013 – September 2016

Town of Cary, Transportation Advisory Group member, April 2013 – September 2016

Transportation Research Board: Committee Member, Transportation Planning for Small and Medium Sized Communities' (ADA30), 2005 – 2014; Research Sub-Committee Chair, 2013 – 2014. Technical Program Chair, TRB 12th National Tools of the Trade Conference, Williamsburg, VA, September 2010.

Invited Panelist, Memphis TMIP Peer Review Panel, March 2006.

Invited Panelist, Knoxville Travel Demand Model Peer Exchange, September 2005.

Invited Panelist, Iowa TMIP Peer Review Panel, March 2004.

Panel Member, NCHRP 08-84: Long Distance and Rural Travel Transferable Parameters for Statewide Travel Forecasting Models, 2012

Town of Cary, Greenway Committee Member (2001 – 2010), Chair (2003 – 2009)

Town of Cary, Advisory Board for Parks, Recreation, and Cultural Resources (2001 – 2009)