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Highway Systems Group
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EDUCATION

North Carolina State University; Raleigh, NC

Ph.D. Civil Engineering, August 2008 – December 2011

M.S. Civil Engineering, August 2005 – December 2006

B.S. Civil Engineering, August 2001 – May 2005, Summa Cum Laude

EXPERIENCE

Institute for Transportation Research and Education, North Carolina State University; Raleigh, NC

Program Manager – Economic Analysis and Policy Assessment, July 2016 – Present

Senior Research Associate, July 2010 – July 2016

Research Associate, January 2007 – July 2010

Research Assistant, August 2004 – August 2006

Department of Civil, Construction, and Environmental Engineering, NC State University; Raleigh, NC

Adjunct Assistant Professor, March 2013 – present

Instructor, CE403/503 – Highway Design, Spring Semesters 2013 – Present

Instructor, CE503 (Distance Section) – Highway Design, Spring 2016

Instructor, CE305 – Traffic Engineering, Summer 2010, Fall 2014, Summer 2016

Teaching Assistant, CE 305 – Traffic Engineering, August 2006 – December 2006

Department of Nutrition, Health & Human Performance, Meredith College; Raleigh, NC

Adjunct Instructor, August 2016 – present

Instructor, FNG646 – Regression Analysis and Other Multivariate Models, Fall 2016

Kimley-Horn & Associates; Raleigh, NC

Engineering Intern, Summer 2005, 2006

North Carolina Department of Transportation, Division 14, District 3 Maintenance Office; Andrews, NC

Engineering Intern, Summer 2002, 2003, 2004

PEER REVIEWED PUBLICATIONS – JOURNAL ARTICLES

Butler, C.J., Gabr, M.A., Rasdorf, W., Findley, D.J., Chang, J.C., and Hammit, B.E. “Retaining Wall Field Condition Inspection, Rating Analysis, and Condition Assessment.” *Journal of Performance of Constructed Facilities*. Journal of the American Society of Civil Engineers. Volume 30. Issue 3. June 2016.

Horne, D., Findley, D.J., Rickabaugh, T., and Coble, D. “Radar Vehicle Detection within Four Quadrant Gate Crossings.” *Journal of Rail Transport Planning & Management*. Volume 6. Issue 2. Pages 149-162. September 2016.

Rasdorf, W., Butler, C.J., Findley, D.J., Gabr, M.A., and Bert, S.A. “Framework for Defining Asset Features to Monitor and Assess Earth Retaining Structures.” *Transportation Research Record*. Journal of the Transportation Research Board of the National Academies. Number 2579. Pages 8-16. 2016.

Shay, E., Combs, T., Salvesen, D., Madeley, M., Kolosna, C., Findley, D.J. “Identifying Transportation Disadvantage: Mixed-Methods Analysis Combining GIS Mapping with Qualitative Field Data.” *Transport Policy*. Volume 48. Pages 129-138. 2016.

Cunningham, C.M., Findley, D.J., Hovey, K., Foley, P., Smith, J., Fowler, T., Chang, J.C., Arnold, J., and Hummer, J.E. "Improved Asset Management and Inventory Development Through Sample Analysis and Vendor-Client Communication." *Journal of Infrastructure Systems*. American Society of Civil Engineers. Volume 22. Issue 1. March 2016.

Cook, T.J., O'Brien, S.W., Jackson, K.N., Findley, D.J., and Searcy, S.E. "Behavioral Effects of Completing a Critical Link in the American Tobacco Trail." *Transportation Research Record*. Journal of the Transportation Research Board of the National Academies. Number 2598. Pages 19-26. 2015.

O'Brien, S.W., Jackson, K.N., Vosburgh, E., and Findley, D.J. "Rumble Strip Gaps for High Speed Bicycles." *Transportation Research Record*. Journal of the Transportation Research Board of the National Academies. Number 2520. Pages 32-40. 2015.

Vaughan, C.L., Jagadish, C., Bharadwaj, S., Cunningham, C.M., Schroeder, B.J., Hummer, J.E., Findley, D.J., and Roupail, N.M. "Long-Term Monitoring of Wrong-Way Maneuvers at Diverging Diamond Interchanges." *Transportation Research Record*. Journal of the Transportation Research Board of the National Academies. Number 2484. Pages 129-139. 2015.

Chang, J.C., Findley, D.J., Cunningham, C.M., and Tsai, M.K. (2014). "Considerations for Effective LiDAR Deployment by Transportation Agencies." *Transportation Research Record*. Journal of the Transportation Research Board of the National Academies. Number 2440. Maintenance Services, Transportation Weather, and Winter Maintenance. Pages 1-8. 2014.

Cunningham, C.M., Katz, D., Smith, S., Carter, D., Miller, M., Findley, D.J., Schroder, B.J., and Foyle, R.S. "Business Perceptions of Access Management Techniques." *Public Works Management and Policy*. American Public Works Association. July 2013.

Cunningham, C.M., Chang, J.C., Findley, D.J., Vaughan, C.L., Martin, J., and Hekele, A. "Public Opinions of Roadway Assets: Roadway Review as a New Survey Method." *Transportation Research Record*. Journal of the Transportation Research Board of the National Academies. Number 2361. Maintenance and Preservation Volume 2. Pages 25-34. 2013.

Findley, D.J., Cunningham, C.M., Chang, J.C., Hovey, K.A., and Corwin, M.A. "Effects of License Plate Attributes on Automatic License Plate Recognition." *Transportation Research Record*. Journal of the Transportation Research Board of the National Academies. Volume 2327. Pages 34-44. 2013.

Findley, D.J., Hummer, J.E., Rasdorf, W., and Laton, B.T. "Collecting Horizontal Curve Data: Mobile Asset Vehicles and Other Techniques." *Journal of Infrastructure Systems*. American Society of Civil Engineers. Volume 19. Number 1. March 2013.

Findley, D.J., Cunningham, C.M., Schroeder, B.J., Vaughan, C.L., and Fowler, T.J. "Structural and Safety Investigation of Statewide Weathered Steel Beam Guardrail Performance in North Carolina." *Transportation Research Record*. Journal of the Transportation Research Board of the National Academies. Volume 2309. Pages 63-72. 2012.

Findley, D.J., Cunningham, C.M., Letchworth, W., and Corwin, M.A. "Predicting Trip Generation Characteristics of Power Centers." *Journal of Transportation*. Institute of Transportation Engineers. Washington, D.C. Volume 4. Issue 1. Pages 19-28. November 2012.

Findley, D.J., Zegeer, C.V., Sundstrom, C.A., Hummer, J.E., and Rasdorf, W.J. (2012). "Applying the Highway Safety Manual to Two-Lane Road Curves." *Journal of the Transportation Research Forum*. Volume 51. Number 2. Summer 2012.

Findley, D. J., Zegeer, C. V., Sundstrom, C. A., Hummer, J. E., Rasdorf, W., and Fowler, T. J. "Finding and Measuring Horizontal Curves in a Large Highway Network: A GIS Approach." *Public Works Management and Policy*. American Public Works Association. Volume 17. Number 2. Pages 189-211. April 2012.

Findley, D. J., Hummer, J. E., Rasdorf, W., Zegeer, C. V., and Fowler, T. J. "Modeling the Impact of Spatial Relationships on Horizontal Curve Safety." *Accident Analysis and Prevention*. Elsevier. Volume 45. Pages 296-304. March 2012.

Rasdorf, W., Findley, D. J., Zegeer, C. V., Sundstrom, C. A., and Hummer, J. E. "Evaluation of GIS Applications for Horizontal Curve Data Collection." *Journal of Computing in Civil Engineering*. American Society of Civil Engineers. Volume 25. Number 2. Pages 191-203. March/April 2012.

Findley, D.J., Cunningham, C.M., and Hummer, J.E. "Comparison of Mobile and Manual Data Collection for Roadway Components." *Transportation Research Part C: Emerging Technologies*. Elsevier. Volume 19. Issue 3. Pages 521-540. June 2011.

Tsai, J., Cook, T., Findley, D.J., and Miller, M. "North Carolina Ferry System: A Study." *Transportation Research Record*. Journal of the Transportation Research Board of the National Academies. Volume 2216. Pages 108-115. 2011.

Hummer, J. E., Rasdorf, W., Findley, D. J., Zegeer, C. V., and Sundstrom, C. A., "Curve Collisions: Road and Collision Characteristics and Countermeasures," *Journal of Transportation Safety and Security*. Southeast Transportation Research Center. Volume 2. Number 3. Pages 203-220. September 2010.

BOOKS/MANUALS

Findley, D.J., Chapter 4: Traffic Engineering Studies. *Traffic Engineering Handbook*. 7th Edition. Institute of Transportation Engineers. Wiley. 2016.

Findley, D.J., Schroeder, B.J., Cunningham, C.M., Brown, T.H. *Highway Engineering: Planning, Design, and Operations*. 1st Edition. Butterworth-Heinemann. Elsevier. 2016.

Schroeder, B., C. Cunningham, D. Findley, and R. Foyle. *ITE Manual of Transportation Engineering Studies*. Institute of Transportation Engineers. Washington, D.C. December 2010.

Schroeder, B, C. Cunningham, D. Findley, and R. Foyle. *Introduction*. Chapter 1 in ITE Manual of Transportation Engineering Studies. Institute of Transportation Engineers. Washington, D.C., December 2010.

Findley, D. *Travel-Time and Delay Studies*. Chapter 9 in ITE Manual of Engineering Transportation Studies. Institute of Transportation Engineers. Washington, D.C., December 2010.

Findley, D. and B. Schroeder. *Pedestrian and Bicycle Studies*. Chapter 12 in ITE Manual of Transportation Engineering Studies. Institute of Transportation Engineers. Washington, D.C., December 2010.

Findley, D. *Goods Movement Studies*. Chapter 14 in ITE Manual of Transportation Engineering Studies. Institute of Transportation Engineers. Washington, D.C., December 2010.

Findley, D. *Inventories*. Chapter 15 in ITE Manual of Transportation Engineering Studies. Institute of Transportation Engineers. Washington, D.C., December 2010.

Findley, D. *Parking Studies*. Chapter 16 in ITE Manual of Transportation Engineering Studies. Institute of Transportation Engineers. Washington, D.C., December 2010.

Findley, D. *Roadway Lighting*. Chapter 19 in ITE Manual of Transportation Engineering Studies. Institute of Transportation Engineers. Washington, D.C., December 2010.

Findley, D. *Environmental Impacts of Transportation Projects*. Chapter 21 in ITE Manual of Transportation Engineering Studies. Institute of Transportation Engineers. Washington, D.C., December 2010.

Findley, D. *Traffic Access and Impact Studies*. Chapter 22 in ITE Manual of Transportation Engineering Studies. Institute of Transportation Engineers. Washington, D.C., December 2010.

PEER REVIEWED PUBLICATIONS – PROCEEDINGS

Searcy, S., Findley, D.J., Yeom, C., Schroeder, B., and Taylor, K. “Peak Average Daily Traffic and Its Use in Project Prioritization.” *Proceedings of the Transportation Research Board 96th Annual Meeting* Transportation Research Board of the National Academies. Jan. 11, 2017. Washington, DC. Paper Number 16-00533.

Findley, D.J., Anderson, T., Bert, S., Nye, T., and Letchworth, W. “Ferry Terminal Wait Time Study.” *Proceedings of the Transportation Research Board 96th Annual Meeting* Transportation Research Board of the National Academies. Jan. 10, 2017. Washington, DC. Paper Number 16-00024.

Vaughan, C., Searcy, S., Bert, S., Findley, D., Foyle, E., Carnes, C., Pincus, T., Coley, A., Manfredi, Z., and Cunningham, C. “Assessment of Automated Sign Retroreflectivity Measurement.” *Proceedings of the Transportation Research Board 96th Annual Meeting* Transportation Research Board of the National Academies. Jan. 9, 2017. Washington, DC. Paper Number 16-02314.

Findley, D.J., Searcy, S., and Schroeder, B. “Investigation of Crosswalk Design and Driver Behaviors at Roundabouts.” *Proceedings of the Transportation Research Board 96th Annual Meeting* Transportation Research Board of the National Academies. Jan. 9, 2017. Washington, DC. Paper Number 16-00025.

Anderson, T. Findley, D.J., Baity, T., Gaskins, G., Ferrara, G., Kulianai, M., and Foley, P. “Findings from Coordinated Multiagency Fatal Crash Review.” *Proceedings of the Transportation Research Board 96th Annual Meeting* Transportation Research Board of the National Academies. Jan. 9, 2017. Washington, DC. Paper Number 16-00466.

Davis, J., Cunningham, C., Findley, D.J., Searcy, S., Martin, J., and Watkins, L. “Relating Public Opinions of Roadway Assets to Field Data Using Surveys and Focus Groups.” *Proceedings of the Transportation Research Board 96th Annual Meeting* Transportation Research Board of the National Academies. Jan. 9, 2017. Washington, DC. Paper Number 16-03822.

Findley, D.J., Searcy, S., Jackson, K., O’Brien, S.W., and Cook, T.J. “Extrapolation and Factoring Methods for Recreational Greenway Trails.” *Proceedings of the Transportation Research Board 96th Annual Meeting* Transportation Research Board of the National Academies. Jan. 9, 2017. Washington, DC. Paper Number 17-01543.

Rasdorf, W., Butler, C.J., Findley, D.J., Gabr, M.A., and Bert, S.A. “A Framework for Defining Asset Features to Monitor and Assess Earth Retaining Structures.” *Proceedings of the Transportation Research Board 94th Annual Meeting*. Transportation Research Board of the National Academies. Jan., 2016. Washington, DC. Submitted for Consideration. Paper Number 16-0002.

Cook, T.J., O’Brien, S.W., Jackson, K.N., Findley, D.J., and Searcy, S.E. “Behavioral Effects of Completing a Critical Link in the American Tobacco Trail.” *Proceedings of the Transportation Research Board 94th Annual Meeting*. Transportation Research Board of the National Academies. Jan., 2016. Washington, DC. Submitted for Consideration. Paper Number 16-3811.

O'Brien, S.W., Jackson, K.N., Vosburgh, E., and Findley, D.J. "Rumble Strip Gaps for High Speed Bicycles." *Proceedings of the Transportation Research Board 93rd Annual Meeting*. Transportation Research Board of the National Academies. Jan. 14, 2015. Washington, DC.

Vaughan, C.L., Jagadish, C., Bharadwaj, S., Cunningham, C.M., Schroeder, B.J., Hummer, J.E., Findley, D.J., and Roupail, N.M. "Long-Term Monitoring of Wrong-Way Maneuvers at Diverging Diamond Interchanges." *Proceedings of the Transportation Research Board 93rd Annual Meeting*. Transportation Research Board of the National Academies. Jan. 13, 2015. Washington, DC.

Shay, E., Combs, T., Salvesen, D., Madeley, M., Kolosna, C., Findley, D.J. "Identifying Transportation Disadvantage: Mixed-Methods Analysis Combining GIS Mapping with Qualitative Data." *Proceedings of the Transportation Research Board 93rd Annual Meeting*. Journal of the Transportation Research Board of the National Academies. Jan. 13, 2015. Washington, DC.

Horne, D., Findley, D.J., Rickabaugh, T., and Coble, D. "Radar Vehicle Detection within Four Quadrant Gate Crossings." *Proceedings of the 2014 Global Level Crossing Symposium*. Paper GLXS2014-1003.

Chang, J.C., Findley, D.J., Cunningham, C.M., and Tsai, M.K. (2014). "Considerations for Effective LiDAR Deployment by Transportation Agencies." *Proceedings of the Transportation Research Board 92nd Annual Meeting*. Transportation Research Board. National Research Council. Jan. 13, 2014. Washington, DC.

Findley, D.J., Chang, J.C., Vaughan, C.L., Schroeder, B.J., Foyle, R.S. and Alford, D.M. (2014). "Highway Capacity Planning Application and Development of Default Values in North Carolina." *Proceedings of the Transportation Research Board 92nd Annual Meeting*. Transportation Research Board. National Research Council. Jan. 13, 2014. Washington, DC.

Findley, D.J., Cunningham, C.M., Chang, J.C., Hovey, K.A., and Corwin, M.A. (2013). "Effects of License Plate Attributes on Automatic License Plate Recognition." *Proceedings of the Transportation Research Board 91st Annual Meeting*. Transportation Research Board. National Research Council. Jan. 15, 2013. Washington, DC.

Cunningham, C.M., Chang, J.C., Findley, D.J., Hekele, A., and Tatham, C. (2013). "Public Opinions of Roadway Assets Using a New Method - The Roadway Review." *Proceedings of the Transportation Research Board 91st Annual Meeting*. Transportation Research Board. National Research Council. Jan. 14, 2013. Washington, DC.

Zegeer, C.V., Sundstrom, C.A., Hummer, J.E., Rasdorf, W.J., and Findley, D.J. (2012). "Suggestions on How Agencies Should Apply the Highway Safety Manual to Two-Lane Road Curves." *Proceedings of the Transportation Research Board 91st Annual Meeting*. Transportation Research Board. National Research Council. Jan. 24, 2012. Washington, DC.

Findley, D.J., Cunningham, C.M., Schroeder, B.J., Vaughan, C.L., and Fowler, T.J. (2012). "Structural and Safety Investigation of Statewide Weathered Steel Beam Guardrail Performance in North Carolina." *Proceedings of the Transportation Research Board 91st Annual Meeting*. Transportation Research Board. National Research Council. Jan. 24, 2012. Washington, DC.

Tsai, J., Cook, T., Findley, D.J., and Miller, M.A. (2011). "A Study of the Fiscal Constraints Facing the North Carolina Ferry System." *Proceedings of the Transportation Research Board 90th Annual Meeting*. Transportation Research Board. National Research Council. Jan. 26, 2011. Washington, DC.

Cunningham, C.M., Miller, M.A., Findley, D.J., Schroder, B.J., Katz, D., Foyle, R.S., Smith, S., and Carter, D. (2011). "Economic Effects of Access Management Techniques in North Carolina." *Proceedings of the Transportation Research Board 90th Annual Meeting*. Transportation Research Board. National Research Council. Jan. 24, 2011. Washington, DC.

Hummer, J. E., Rasdorf, W., Findley, D. J., Zegeer, C. V., and Sundstrom, C. A. (2010). "An Examination of Horizontal Curve Collisions Characteristics and Corresponding Countermeasures." *Proceedings of the Transportation Research Board 89th Annual Meeting*. Transportation Research Board, National Research Council. Jan. 2010. Washington, DC.

OTHER PUBLICATIONS

Yeom, C., Searcy, S., Findley, D., and Schroeder, B. *A New Method to Account for Seasonal Peak Traffic Volumes in Project Prioritization*. Institute of Transportation Engineers Journal. Washington, D.C. IN PRESS.

Gabr, M., C. Butler, W. Rasdorf, D. Findley, and S. Bert. *Highway Retainings Walls are Assets – A Risk-Based Approach for Managing Them*. Geostrata. March/April 2016.

Airport Cooperative Research Program (ACRP) Impacts on Practice.

Improving Airport Curbside and Roadway Operations, August 2014

Identifying Practices for Controlling Aircraft and Airfield Deicing Runoff, May 2014

Evaluating Terminal Renewal and Replacement Options, December 2013

Implementing Effective Airport Marketing Approaches to Tenants and the Community, November 2013

Maximizing Airport Facility Utilization and Efficiency with Common-Use Resources, October 2013

Contingency Planning for Unexpected Passenger Delays, April 2013

ACRP Disseminates Solutions-Based Research Projects Through Ambassadors, November 2012

Development of Airport Property: Policy Guidance and Workforce Training, October 2012

Traumatic Event Assistance for Aviation Employees, November 2011

Estimating Airport Greenhouse Gas (GHG) Emissions, October 2011

Protecting Airport Personnel from Lightning Strikes, September 2011

Findley, D.J., Cunningham, C.M., Chang, J.C., Hovey, K.A., and Corwin, M.A. American Association of Motor Vehicle Administrators (AAMVA). *Best Practices Guide for Improving Automated License Plate Reader Effectiveness through Uniform License Plate Design and Manufacture. Appendix F: North Carolina State University Study on Effects of License Plate Attributes on ALPR*. September 2012.

Findley, D. *A Comprehensive Two-Lane, Rural Road Horizontal Curve Study Procedure*. PhD Dissertation. North Carolina State University. October 2011.

C. Cunningham, D. Findley, Schroeder, B., and R. Foyle. *Traffic Operational Impacts of Contemporary Multi-Pump Island Fueling Centers*. Institute of Transportation Engineers Journal. Washington, D.C. June 2011.

Findley, D. *Economic Impact of Publicly-Owned General Aviation Airports in North Carolina*. Master's Thesis. North Carolina State University. November 2006.

RESEARCH PROJECTS

Highway-Rail Grade Crossing Warning System
Aug. 2016 – Jul. 2019, NCDOT Rail Division

Central Issuance and Print on Demand License Plates
Aug. 2016 – Jul. 2018, NCDOT Division of Motor Vehicles

Analysis and Validation of Historical Transportation Investment
Aug. 2016 – Jul. 2018, NCDOT

Economic Contribution of Airports in North Carolina (PI)
Jan. 2015 – July 2018, NCDOT Division of Aviation

NCDOT Customer Service Survey (PI)
Sept. 2016 – July 2017, NCDOT

Developing Guidelines and Documentation of Engineering Studies for Establishing NC Speed Limits (PI)

Aug. 2016 – July 2017, NCDOT

NCLOS Program Update for the HCM 6th Edition

Aug. 2016 – July 2017, NCDOT

Radar Detection Evaluation (PI)

Aug. 2015 – Jul. 2017, NCDOT

Research and Technical Support for NCDOT Strategic Prioritization (PI)

Apr. 2015 – Jul. 2017, NCDOT

Evaluating the Economic Impact of Shared Use Paths in NC

Mar. 2015 – Feb. 2018, NCDOT

Retaining Wall Inventory and Assessment System

Aug. 2013 – Aug. 2015, NCDOT

NCDOT Customer Service Survey (PI)

Aug. 2014 – Aug. 2015, NCDOT

Assessment of Automated Sign Retroreflectivity Measurement

Feb. 2014 – Aug. 2015, NCDOT

Evaluation of Life Cycle Impacts of Intersection Control Type Selection

Aug. 2013 – Aug. 2015, NCDOT

Review of Multimodal Economic Performance Measures: Developing a Baseline for Statewide Economic Growth (PI)

Mar. 2015 –Jul. 2015, NCDOT

Economic Benefits of Public Transit

Nov. 2014 –Feb. 2015, NCDOT

Vision Zero (PI)

Oct. 2013 – Sept. 2014, North Carolina Governor's Highway Safety Program

Rumble Strip Gaps for High Speed Bicycles

Aug. 2013 – Aug. 2014, NCDOT

Synthesis of Contemporary Guidance and Recommendations for (A) Pedestrian Signal Provisions and (B) Marked Crosswalks at Uncontrolled Approaches

Aug. 2013 – Aug. 2014, NCDOT

American Tobacco Trail Study

May 2013 – Aug. 2014, NCDOT, BCBSNC, East Coast Greenway Alliance, Mazer Foundation

Field Evaluation of Double Crossover Diamond Interchanges

Oct. 2010 – Nov. 2014, Federal Highway Administration

Trip Making Patterns of NC's University Students

Aug. 2012 – Aug. 2014, NCDOT

Defining North Carolina's Transportation Disadvantaged Populations
Aug. 2012 – Mar. 2014, NCDOT

Accelerating Roundabout Implementation in the United States (TOPR #34)
Federal Highway Administration

NCLOS Program 2010 Update (PI)
Aug. 2011 – Dec. 2012, NCDOT

Effects of License Plate Attributes on Automatic License Plate Recognition (PI)
Feb. 2012 – May 2012, NCDOT Division of Motor Vehicles

Infrastructure Investment Protection with LIDAR (PI)
Aug. 2011 – Aug. 2012, NCDOT

ACRP Project 11-05 Task 1: Start-Up Activities
Dissemination of ACRP Research Results
July 2011 – June 2012, Airport Cooperative Research Program, Transportation Research Board of the National Academies

ACRP Project 11-05 Task 2: Value and Utility Assessment: Scoping and Pilot-Testing
Dissemination of ACRP Research Results
July 2011 – June 2012, Airport Cooperative Research Program, Transportation Research Board of the National Academies

Economic Contribution of North Carolina Airports (PI)
Mar. 2011 – Mar. 2012, NCDOT – Division of Aviation

NGAT Center Technical Assistance to the NCDOT Division of Aviation (PI)
Mar. 2011 – Mar. 2012, NCDOT

Comparison of Data Collection Vehicles to Human Collection Methods
Aug. 2010 – Feb. 2012, NCDOT

NCDOT Roadway Reviews
Jun. 2011 – Dec. 2011, NCDOT

Seven Portals Study
July 2010 – December 2011, NCDOT

All-Weather Paint for Work Zones Field Evaluation in North Carolina
Mar. 2009 – Aug. 2011, 3M Traffic Safety Systems Division

Performance of Weathered Steel Guardrail in NC (PI)
Aug. 2010 – Feb. 2011, NCDOT

Economic Contribution of the North Carolina Ports (PI)
Feb. 2010 – Jan. 2011, North Carolina State Ports Authority

Economic Effects of Access Management
Aug. 2008 – Aug. 2010, NCDOT

Procedure for Curve Warning Signing, Delineation, and Advisory Speeds for Horizontal Curves
Aug. 2008 – Aug. 2010, NCDOT

ITE Manual of Transportation Studies (Co-PI)
Dec. 2008 – Jan. 2010, Institute of Transportation Engineers

Benchmarking and Optimization of the North Carolina Ferry System
2009, NCDOT

Procedure for Identification and Investigation of Horizontal Curves with Insufficient Superelevation Rates
Aug. 2008 – May 2009, NCDOT

Development of the Maintenance Academy Course for the National Highway Institute
Jan. 2008 – Jan. 2009, National Highway Institute

Investigation of Highway Asset Inventory and Data Collection Methods
Feb. – Dec. 2008, NCDOT

Statewide Logistics Plan for North Carolina
Jan. – May 2008, Office of State Budget and Management

Pedestrian Operations at Single Point Interchanges
July – Dec. 2007, NCDOT

Force Flow Sewer Mains - Technical Assistance Project
Oct. – Nov. 2007, NCDOT

Traffic Operational Impacts of Contemporary Multi-Pump Island Fuel Centers
July 2006 – Dec. 2007, NCDOT

Fall 2007 Reedy Creek Greenway User Survey
Sept. – Nov. 2007, NCDOT

Economic Impact of North Carolina Airports
Aug. 2005 – Dec. 2006, NCDOT – Division of Aviation

Benefit-Cost Analysis Software for Transportation Planning,
July 2004 – June 2005, NCDOT

TEACHING ACTIVITIES

Professional Enhancement Program (PI)
May 2011 – Present, NCDOT

CE305: Transportation Engineering, Department of Civil, Construction, and Environmental Engineering, North Carolina State University, Prague Study Abroad
Summer 2016

Fundamental Engineering Principles Program. Courses including: Physics; Mathematics; Highway Design; Horizontal and Vertical Alignment; Statics; Strength of Materials
Jan. 2007 – 2012, NCDOT

Fundamentals of Engineering (FE) Exam Review Course. Topics including: Engineering Economics, Surveying, and Transportation Engineering. Jan 2012 – Present.

Professional Engineering (PE) Exam Review Course. Transportation Engineering. Jan. 2012 – Present.

Proven Safety Countermeasures for Roadway Safety Problems in North Carolina. Accelerating Safety Activities Program (ASAP). Federal Highway Administration. August 19, 2014: Raleigh, NC.

Highway Design. Municipality of Abu Dhabi City, United Arab Emirates. December 8-12, 2013.

Proven Safety Countermeasures for North Carolina Local Governments - Information Sharing on Roadway Departure, Intersection, and Pedestrian Issues and Solutions. Accelerating Safety Activities Program (ASAP). Federal Highway Administration. August 6, 2013: Raleigh, NC; August 14, 2013: Asheville, NC; August 22, 2013: Charlotte, NC.

CE403/503: Highway Design. Department of Civil, Construction, and Environmental Engineering, North Carolina State University. Spring 2013, 2014, and 2015.

CE305: Transportation Engineering, Department of Civil, Construction, and Environmental Engineering, North Carolina State University. Fall 2014.

Highway Engineering Concepts. Topics including: Transportation Planning; Horizontal and Vertical Alignment; Highway Design

Jan. 2007 – Present, NCDOT

North Carolina Local Technical Assistance Program

Transportation Asset Management for Local Agencies – January 26, 2016

Computers: Introduction to Reports and Presentations – February 18, 2011; March 15, 2012; November 7, 2012; July 13, 2016

Advanced Computers: Practical Applications – November 8, 2012; July 14, 2016

Johnston County Schools. Professional Development for Classified Staff. Seminar on Applications of Word Processing, Spreadsheets, and Presentations – March 30, 2012; October 31, 2012.

North Carolina State University Guest Lectures

CE305 – April 17, 2012

PA515 – March 22, 2012

CE506 – September 14, 2010

CE305 – November 27 and 29, 2007

CE305: Transportation Engineering, Department of Civil, Construction, and Environmental Engineering, North Carolina State University, Australia Study Abroad
Summer 2010

North Carolina Level of Service Program Training
Spring 2008, NCDOT

NCDOT Redbook Wizard Training
Spring 2006, NCDOT

Teaching Assistant, CE 305 – Traffic Engineering
Department of Civil, Construction, and Environmental Engineering
Fall 2006, NC State University; Raleigh, NC

REPORTS

Findley, D.J. and Bert, S.A. “Economic Impact of Aviation Services Expansion Project at Burlington-Alamance Regional Airport.” Division of Aviation. North Carolina Department of Transportation. July 5, 2016.

Findley, D.J., Bert, S.A., Kay, D., Cooke, S., Alward, G., and Schick, L. Economic Impacts of a North Carolina Intermodal Facility – An Analysis of Regional and Statewide Effects.” Rail Division. North Carolina Department of Transportation. May 17, 2016.

Findley, D.J., Bert, S.A., and Small, J.D. “Economic Contribution of North Carolina Airports.” Division of Aviation. North Carolina Department of Transportation. April 2016.

Letchworth, W. et al. “Report of the Ocracoke-Hatteras Passenger Ferry Feasibility Study.” Ferry Division. North Carolina Department of Transportation. March 2016.

Bert, S.A., Small, J.D., Findley, D.J., and Martin, J. “Benefits for State-Supported Passenger Rail Services in North Carolina.” NCDOT Rail Division. December 2015.

Findley, D.J., Bert, S.A., and Carpenter, C.A. “Aviation Prioritization and Programming: National Review of Block Grant States.” NCDOT Division of Aviation. 2015.

Findley, D.J. and Bell, H. “Fiscal Impact of Strategic Investments at Burlington-Alamance Regional Airport.” North Carolina Department of Transportation. October 2015.

Eddie McFalls et al. “Comprehensive State Rail Plan.” NCDOT Rail Division. August 2015.

Findley, D.J., Horne, D.R., Coble, D.G., Rickabaugh, T.J., and Martin, J.B., “Evaluation of Radar Vehicle Detection at Four Quadrant Gate Crossings – Phase 1: Ellis Road, Durham; Williamson Avenue, Elon, and 5th Street, Mebane.” North Carolina Department of Transportation. Rail Division. May 2015.

Schroeder, B., Salamati, K., Roupail, N., Findley, D., Hunter, E., Phillips, B., Barlow, J., and Rodegerts, L. “Accelerating Roundabouts in the United States: Volume I of VII - Evaluation of Rectangular Rapid-Flashing Beacons (RRFB) at Multilane Roundabouts.” Office of Safety. Federal Highway Administration. FHWA-SA-15-069. September 2015.

Schroeder, B., Salamati, K., Roupail, N., Findley, D., Hunter, E., Phillips, B., Barlow, J., and Rodegerts, L. “Accelerating Roundabouts in the United States: Volume IV of VII – A Review of Fatal and Severe Injury Crashes at Roundabouts.” Office of Safety. Federal Highway Administration. FHWA-SA-15-072. September 2015.

Findley, D., Searcy, S., Salamati, K., Schroeder, B., Williams, B., Bhagavathula, R., and Rodegerts, L. “Accelerating Roundabouts in the United States: Volume VI of VII – Investigation of Crosswalk Design and Driver Behaviors.” Office of Safety. Federal Highway Administration. FHWA-SA-15-074. September 2015.

Findley, D., Searcy, S., Salamati, K., Schroeder, B., Williams, B., Bhagavathula, R., and Rodegerts, L. “Accelerating Roundabouts in the United States: Volume VII of VII – Human Factor Assessment of Traffic Control Device Effectiveness.” Office of Safety. Federal Highway Administration. FHWA-SA-15-075. September 2015.

Monast, K., Cook, T., Findley, D., Bert, S. and Small, J.D. “Benefits of Transit in North Carolina.” North Carolina Department of Transportation. February 2015.

Findley, D.J., Bert, S., Heller, A., Small, J.D., Tran, W., and Lane, L.B. “Diversifying Revenues to Improve Commerce and Economic Prosperity.” North Carolina Chamber Foundation. December 2014.

Findley, D.J. and Stroud, K. "Fiscal Impact of Strategic Investments at Piedmont Triad International Airport." North Carolina Department of Transportation. August 2014.

Findley, D.J., Gong, Z., and Bert, S. "National Review of Aerospace Industry Incentives." North Carolina Department of Transportation. August 2014.

Lane, Leigh B., Bert, S.A., Heller, A.E., Findley, D.J. "Defining North Carolina's Transportation Disadvantaged Populations." North Carolina Department of Transportation. Report FHWA/NC 2012-0731. June 2014.

Findley, Daniel, J. Chang, C. Vaughan, B. Schroeder, and R. Foyle. "NCLOS Program 2010 Update." North Carolina Department of Transportation Report. FHWA/NC/2012-05 November 2013.

Chang, J.C., Tsai, M.K., Findley, D.J., and Cunningham, C.M. "Infrastructure Investment Protection with LiDAR." North Carolina Department of Transportation. Report FHWA/NC 2012-15. October 2012.

Findley, D.J., Chang, J.C., and Foyle, R.S. "Economic Contribution of North Carolina Airports." Division of Aviation. North Carolina Department of Transportation. Report FHWA/NC 2012-0731. July 2012.

Findley, D.J., Cunningham, C.M., Chang, J.C., Hovey, K.A., and Corwin, M.A. "Effects of License Plate Attributes on Automatic License Plate Recognition." North Carolina Department of Transportation. Division of Motor Vehicles. July 2012.

Cunningham, C.M., Hummer, J.E., Change, J., Katz, D., Vaughan, C., Findley, D.J., Schroeder, B., McAvoy, D. "All-Weather Paint for Work Zones – Field Evaluation in North Carolina and Ohio." Report submitted to FHWA, Highways for Life Program, March 2012.

Findley, D.J. and Stone, J.R. "Seven Portals Study: An Investigation of Economic Development in North Carolina Through Logistics Villages – Advantage West Region." North Carolina Department of Transportation. Report FHWA/NC/2010-34-7. December 2011. Raleigh, NC.

Findley, D.J., Cunningham, C.M., Schroeder, B.J., Vaughan, C.L., and Fowler, T.J. "Performance of Weathered Steel Guardrail in NC." North Carolina Department of Transportation. Report FHWA/NC/2011-11. May 2011. Raleigh, NC.

Findley, D.J., Cunningham, C.M., Foyle, R.S., Demers, A., List, G.F., Stone, J.R., Dobie, K.E., Hall, W.W., Hauser, E.W., Elmes, S., Kemmsies, W., and Smith, M. "Economic Contribution of the North Carolina Ports." North Carolina State Ports Authority. February 9, 2011. Wilmington, NC.

Hummer, J.E., Rasdorf, W.J., Findley, D.J., Zegeer, C.V., and Sundstrom, C.A. "Procedure for Curve Warning Signing, Delineation, and Advisory Speeds for Horizontal Curves." North Carolina Department of Transportation. Report FHWA/NC/2009-07. December 2010. Raleigh, NC.

Cunningham, C.M., Miller, M., Findley, D.J., Schroeder, B.J., Katz, D., Foyle, R.S., Smith, S., and Carter, D. "Economic Effects of Access Management Techniques in North Carolina." North Carolina Department of Transportation. Report FHWA/NC/2009-12. December 2010. Raleigh, NC.

Findley, D.J., Foyle, R.S. "Procedure for Identification and Investigation of Horizontal Curves with Insufficient Superelevation Rates." North Carolina Department of Transportation. Report FHWA/NC/2009-08. May 31, 2009. Raleigh, NC.

Miller, M.A., Cook, T.J., Findley, D. "Benchmarking and Optimization of the North Carolina Ferry System." North Carolina Department of Transportation. February 2010.

Kim, Y.R., Hummer, J.E., Gabr, M., Johnston, D., Underwood, B.S., Findley, D.J., Cunningham, C.M. “Asset Management Inventory and Data Collection.” North Carolina Department of Transportation. Report FHWA/NC/2008-15. June 2009. Raleigh, NC.

Hummer, J.E., Findley, D.J., Cunningham, C.M. “Comparison of Automated and Manual Data Collection for Roadside Elements.” Highway Asset Inventory and Data Collection National Workshop. Sept. 24 – 26, 2008. Durham, NC.

Cunningham, C.M., Findley, D.J., Foyle, R.S. “Pedestrian Operations at Single Point Interchanges.” North Carolina Department of Transportation. Report FHWA/NC/2008-08. June 30, 2008. Raleigh, NC.

Cunningham, C.M., Findley, D.J., Foyle, R.S. “Traffic Operational Impacts of Contemporary Multi-Pump Fueling Centers.” North Carolina Department of Transportation. Report FHWA/NC/2007-15. January 2008. Raleigh, NC.

List, G.F., Foyle, R.S., Canipe, H., Cameron, H., Stromberg, E. “Statewide Logistics Plan for North Carolina – An Investigation of the Issues with Recommendations for Action.” North Carolina Office of State Budget and Management. May 13, 2008. Raleigh, NC.

Findley, D.J., Foyle, R.S. “2006 Economic Impact of North Carolina’s Publicly-Owned Airports.” North Carolina Department of Transportation. Division of Aviation. Research Project HWY-0716. November 5, 2007. Raleigh, NC.

Findley, D.J., Stone, J.R., Fain, S.J., Foyle, R.S. “NCDOT Benefit/Cost Analysis for Planning Highway Projects.” North Carolina Department of Transportation. Report FHWA/NC/2006-43. July 2007. Raleigh, NC.

PRESENTATIONS

96th Transportation Research Board Annual Meeting. *Ferry Terminal Wait Time Study*. January 10, 2017. Washington, DC.

96th Transportation Research Board Annual Meeting. *Investigation of Crosswalk Design and Driver Behaviors at Roundabouts*. January 9, 2017. Washington, DC.

96th Transportation Research Board Annual Meeting. *Hit the Ground Running: Choosing and Navigating a Successful Career Path – A Workshop for Young and New Transportation Professionals*. January 8, 2017. Washington, DC.

Design Your Own Continuing Education Experience. *Pedestrians – Can They Safely Cross the Road?: Exploring Research on Pedestrian Crossing and Driver Yielding Behavior*. December 2, 2016. McKimmon Center. Raleigh, NC.

ACEC/NC NCDOT Joint Transportation Conference. *Demographics: Transportation Choices of Baby Boomers and Millennials*. November 2, 2016. Raleigh Convention Center. Raleigh, NC.

Burlington City Council. *Economic Contribution of Burlington-Alamance Regional Airport*. May 2, 2016. Burlington, NC.

North Carolina Airports Association 37th Annual Conference. *Economic Contribution of North Carolina Airports*. April 18, 2016. Wilmington, NC.

95th Transportation Research Board Annual Meeting. *A Framework for Defining Asset Features to Monitor and Assess Earth Retaining Structures*. Jan. 13, 2016. Washington, DC

Design Your Own Continuing Education Experience. *Transportation Engineering: Human Factors in Transportation and Vision Zero: A Highway Safety Fatality Initiative*. December 10, 2015. McKimmon Center. Raleigh, NC.

Students Against Destructive Decisions Leadership Conference. *Highway Safety*. November 21, 2015. Research Triangle Park, NC.

FN-656 Obesity and Weight Management. Meredith College. *Physical Activity and Street Design*. October 29, 2015. Raleigh, NC.

Highway Safety Symposium. *Vision Zero*. August 18, 2015. Concord, NC.

Regional Law Enforcement Liaisons Meeting. *Vision Zero*. April 23, 2015. Raleigh, NC.

North Carolina Impaired Driving Assessment. *Data and Evaluation Programming*. National Highway Traffic Safety Administration. April 21, 2015. Raleigh, NC.

A Bridge to the Future - Making Logistics and Infrastructure a Competitive Advantage for NC. Transportation and Infrastructure Summit. *Diversifying Revenues to Improve Commerce and Economic Prosperity*. North Carolina Chamber. April 9, 2015. Research Triangle Park, NC.

Research Seminar: Human Factors in Transportation. Carolina Chapter of the Human Factors and Ergonomics Society. March 12, 2015. Poe Hall, North Carolina State University, Raleigh, NC.

Human Factors and Transportation Engineering. PSY340: Ergonomics. North Carolina State University. February 23, 2015. Poe Hall, Raleigh, NC.

Human Factors and Ergonomics. *Transportation and Human Factors*. Colloquium Series – Spring 2015. February 4, 2015. Poe Hall, Raleigh, NC.

Executive Committee for Highway Safety. *Moving Forward with Vision Zero*. January 9, 2015. Raleigh, NC.

Board of Transportation. North Carolina Department of Transportation. *Economic Contribution of the North Carolina Ports*. January 7, 2015. Raleigh, NC.

People's Republic of China Ministry of Transportation Delegation. *Economic Contribution of the North Carolina Ports*. December 4, 2014. Raleigh, NC.

North Carolina Chamber Annual Meeting. *Diversifying Revenues to Improve Commerce and Economic Prosperity*. December 2, 2014. Concord, NC.

North Carolina State Ports Authority Board Meeting. *Economic Contribution of the North Carolina Ports*. November 20, 2014. Wilmington, NC.

North Carolina Aviation Development Task Force. *Economic Contribution of Airports, Aviation Prioritization and Programming, Aerospace Industry Incentives, and Fiscal Impact of Strategic Aviation Investments*. November 14, 2014. Raleigh, NC.

North Carolina Strategic Highway Safety Plan Workshop. Second Workshop to Update the NC SHSP. *Lane Departure Emphasis Area Plan Overview and Implementation*. August 14, 2014. NC Museum of Natural Sciences. Raleigh, NC.

North Carolina Section Institute of Transportation Engineers. Traffic Engineering Council Meeting. *Trip Generation Characteristics of Large Shopping Centers*. June 25, 2013. James B. Hunt Jr Library. North Carolina State University. Raleigh, NC.

Geospatial Transportation Mapping Association. 1st Annual Meeting and Transportation Data Expo. *Infrastructure Investment Protection with LiDAR*. March 25 and 26, 2013. Hyatt Regency, Crystal City, VA.

American Society of Civil Engineers. Legislative Reception. *Economic Contribution of North Carolina Transportation Assets*. March 20, 2013. Nature Research Center. North Carolina Museum of Natural Science. Raleigh, NC.

92nd Transportation Research Board Annual Meeting. *Effects of License Plate Attributes on Automatic License Plate Recognition*. Jan. 15, 2013. Washington, DC.

92nd Transportation Research Board Annual Meeting. *Public Opinions of Roadway Assets Using a New Method - The Roadway Review*. Jan. 14, 2013. Washington, DC.

American Association of Motor Vehicle Administrators (AAMVA). Annual International Conference. *Effects of License Plate Attributes on Automatic License Plate Recognition*. August 21, 2012. Charlotte, NC.

91st Transportation Research Board Annual Meeting. *Structural and Safety Investigation of Statewide Weathered Steel Beam Guardrail Performance in North Carolina*. Presentation #12-0012. Jan. 24, 2012. Washington, DC.

91st Transportation Research Board Annual Meeting. *Suggestions on How Agencies Should Apply the Highway Safety Manual to Two-Lane Road Curves*. Presentation #12-0011. Jan. 24, 2012. Washington, DC.

North Carolina Section Institute of Transportation Engineers 2011 Mid-Year Meeting, *Performance of Weathered Steel Guardrail*. June 3, 2011, Asheville, NC

Western North Carolina Transportation Alliance. *Economic Development & Transportation Infrastructure in WNC: The 7 Portals Study*. Keynote Address. June 1, 2011, Asheville, NC

90th Transportation Research Board Annual Meeting. *Economic Effects of Access Management Techniques in North Carolina*. Presentation #P11-4189. Jan. 24, 2011, Washington, DC

90th Transportation Research Board Annual Meeting. *Suggestions on How Agencies Should Apply the Highway Safety Manual to Two-Lane Road Curves*. Doctoral Student Research in Transportation Operations and Traffic Control. Presentation #P11-1753. Jan. 23, 2011, Washington, DC

North Carolina Aerospace Initiative Faculty Forum on Aerospace Research, NextGen Air Transportation Center (NGAT), February 26, 2010, Biomanufacturing Training and Education Center, Raleigh, NC

89th Transportation Research Board Annual Meeting, Examination of Horizontal Curve Collision Characteristics and Corresponding Countermeasures, Jan. 10-14, 2010, Washington, DC

2009 NC GIS Conference, Automated Asset Inventory Data Collection, Feb. 19-20, 2009, Raleigh Convention Center, Raleigh, NC

NCSITE 2008 Annual Meeting, Automated Asset Inventory Technologies: A Comparison of Manual and Automated Methods, Dec. 2, 2008, Raleigh Convention Center, Raleigh, NC

2008 ACEC/NC/DOT Transportation Conference, The Economic Impact of Aviation in North Carolina, Oct. 6 – 7, 2008, Jane S. McKimmon Center, Raleigh, NC

Highway Asset Inventory & Data Collection National Workshop, Roadside Elements Technical Session Report Out, AASHTO, FHWA, NCDOT, NCSU, TRB Sept. 24 – 26, 2008, Durham, NC

Statewide Logistics Plan for North Carolina - Visioning Sessions, State, National, and Global Economic and Trade Patterns, Feb. – Mar. 2008, OSBM

ACTIVITIES

Paper Reviewer

Transportation Research Board

ABG20 - Transportation Education and Training

AFB10 - Geometric Design

AHB65 - Operational Effects of Geometrics

ANB40 - Traffic Law Enforcement

ABG50 - Transportation History

ITE Journal

Transportation Research Part C: Emerging Technologies

Traffic Injury Prevention

Survey Review

Journal of Infrastructure Systems

Journal of Transportation Safety and Security

Journal of Traffic and Transportation Engineering

Applied Geography

Advances in Automobile Engineering

Advances in Mechanical Engineering

Optica Applicata

North Carolina Strategic Highway Safety Plan 2014

Lane Departure Emphasis Area Working Group Member

Speed Emphasis Area Working Group Member

Data and Emerging Issues Emphasis Area Working Group Member

Transportation Founders Fund Member 2007-Present

Transportation Research Board: Operational Effects of Geometrics Committee (AHB65) Member 2013-Present

Transportation Research Board: Traffic Law Enforcement Committee (ANB40) Member 2014-Present

Transportation Research Board: History Committee (ABG50) Member 2009-Present

Transportation Research Board: History Committee Communication Coordinator 2009-Present

Transportation Research Board: Committee Communication Coordinator Council 2009-Present

Transportation Research Board: Friend of Transportation Education and Training Committee (ABG20)

Transportation Research Board: Friend of Geometric Design Committee (AFB10)

Transportation Research Board: Friend of Roadside Safety Design Committee (AFB20)

Transportation Research Board: Friend of Low-Volume Roads Committee (AFB30)

Future City Mentor, Centennial Campus Magnet Middle School 2011-2015

Scale-Up STEM Career Role Model 2011

Academy of Information Technology (AOIT) Summer Internship Mentor 2011

HONORS

Teaching Mobility Scholarship. Erasmus+ Program of the European Commission. University of the Basque Country. Bilbao, Spain. March 2016.

Outstanding Paper Award. “Rumble Strip Gaps for High-Speed Bicycles.” Committee on Bicycle Transportation (ANF 20). 2015 Transportation Research Board Annual Meeting.

Transatlantic Partnership for Excellence in Engineering Mobility Scholarship. Erasmus Mundus Program of the European Union. Polytechnic University of Valencia. September-October 2012.

NCSU Office of Research and Graduate Studies Award for Excellence Nominee 2010

University Transportation Centers Program/CTE Student of the Year Award 2008

Roy D. Williams Memorial Scholarship/NCSITE 2005

SASHTO/Department of Transportation Scholarship 2005-2006

Transportation Founders Fund Scholarship Recipient 2005-2006
Chi Epsilon: Civil Engineering National Honor Society 2004
Robbinsville High School, Robbinsville, NC: Valedictorian 2001
George and Francis London Scholarship 2001
Percy B. Ferebee Scholarship 2001
NCSU College of Engineering Dean's Merit Scholarship 2001
North Carolina High School Athletic Association Region 8 Scholarship 2001