

Wesley E. Marshall, PhD, PE

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Summary of Credentials

I am an associate professor of Civil Engineering and affiliate faculty in Urban and Regional Planning at the University of Colorado Denver, director of the CU Denver Transportation Research Center and co-director of the Active Communities/Transportation (ACT) research group. I received my Professional Engineering (P.E.) license in 2003 and focus on transportation teaching and research dedicated to creating more sustainable and resilient infrastructure, particularly in terms of road safety, active transportation, and transit. Other related teaching and research topics include: transportation/land use, parking, public health, and street networks.

Having spent time in the private sector with Sasaki Associates and Clough, Harbour and Associates, I have been working on planning and site design issues related to civil and transportation engineering for the last eighteen years. A native of Watertown, Massachusetts, I am a graduate of the University of Virginia, the University of Connecticut, a recipient of the Eisenhower Transportation Fellowship, the Endeavour Fellowship, winner of the Wootan Award for Outstanding TRB Paper in the field of Policy and Organization, and winner of the Campus-wide University of Colorado Denver 2016 Outstanding Faculty in Research Award.

Professional Experience

Academic Experience

2015 – present: Associate Professor, Department of Civil Engineering

2009 – 2015: Assistant Professor, Department of Civil Engineering

Additional affiliations include:

- Director, Transportation Research Center at the University of Colorado Denver
- Program Director, University Transportation Center through the Mountain Plains Consortium
- Co-Director, Active Communities/Transportation (ACT) Research Group with Kevin Krizek
- Faculty Affiliate, Urban and Regional Planning, College of Architecture and Planning
- Faculty Affiliate, NSF Integrative Graduate Education and Research Traineeship (IGERT)

2004 – 2009: Graduate Research and Teaching Assistant, Dept. of Civil & Environmental Engineering

Additional affiliations included:

- Researcher, Center for Transportation and Livable Systems (CTLS)
- Researcher, Connecticut Transportation Institute (CTI)

Industry Experience

2000 – 2004: Project Engineer, Clough, Harbour & Associates, Rocky Hill, CT

1998 – 2000: Project Engineer, Sasaki Associates, Watertown, MA

1997: Intern, Sasaki Associates, Watertown, MA

Public Sector

1996: Big Dig Field Auditor Internship, Massachusetts State Auditor Big Dig Field Office, Boston, MA

Professional Licensure

2003 – present: Professional Engineer, Connecticut #23211

Education

Ph.D. University of Connecticut, Storrs, CT (2009)

Department of Civil & Environmental Engineering (transportation and urban engineering)

Dissertation: *Community Design, Road Safety, and Transportation Sustainability*

Advisor: Dr. Norman W. Garrick; GPA: 4.0

M.S. University of Connecticut, Storrs, CT (2007)

Department of Civil & Environmental Engineering (transportation and urban engineering)

Thesis: "Parking at Mixed-Use Centers in Small Cities"

Advisor: Dr. Norman W. Garrick; GPA: 4.0

B.S. University of Virginia, Charlottesville, VA (1998)

Department of Civil & Environmental Engineering

Thesis: "The Big Dig." Graduated Cum Laude with Distinction

Publications

Refereed journal articles

(underline indicates that co-author is/was a student)

**2017 &
in press**

1. **Wesley E. Marshall**, Piatkowski, D., and Johnson, A. Scofflaw Bicyclists: Illegal but Rational. *Journal of Transport and Land Use* (doi: <http://dx.doi.org/10.5198/jtlu.2016.871>).
2. Piatkowski, D., **Wesley E. Marshall**, and Johnson, A. Steering Clear of Confrontation: The Role of Drivers' Bicycling Experiences in Mixed-Traffic Encounters. *Transportation Research – Part F*, Vol. 46, Part A, 137-148, 2017 (doi: <http://dx.doi.org/10.1016/j.trf.2017.01.009>).
3. **Wesley E. Marshall** and McAndrews, C. Understanding Livable Streets in the Context of the Arterials that Surround Them. *Transportation Research Record* (doi: 10.3141/2605-01).
4. Ferenchak, N. and **Wesley E. Marshall**. Redefining the Child Pedestrian Safety Paradigm: Identifying High Fatality Concentrations in Urban Areas. *Injury Prevention* (doi: <http://dx.doi.org/10.1136/injuryprev-2016-042115>).
5. Piatkowski, D., **Wesley E. Marshall**, and Johnson, A. Bicycle backlash: A qualitative examination of aggressive driver-bicyclist interactions. *Transportation Research Record* (in press).
6. **Wesley E. Marshall**, and Ferenchak, N. Assessing Equity and Urban/Rural Road Safety Disparities in the U.S. *Journal of Urbanism* (in press).

2016

7. **Wesley E. Marshall**, Duvall, A., and Main, D. Large-Scale Tactical Urbanism: The Denver Bike Share System. *Journal of Urbanism*, Vol. 9, No. 2: 135-147, 2016. (doi: 10.1080/17549175.2015.1029510).
8. Piatkowski, D., **Wesley E. Marshall**, and Afzalan, N., C. Can Web-Based Community Engagement Inform Equitable Planning Outcomes? A Case Study of Bikesharing. *Journal of Urbanism* (doi: 10.1080/17549175.2016.1254672).

2015

9. **Wesley E. Marshall**, Piatkowski, D., and Garrick, N. Community Design, Street Networks, and Public Health. *Journal of Transport & Health*, Vol. 1, Issue 4: 326-340, 2015 (doi:10.1016/j.jth.2014.06.002i).
10. **Wesley E. Marshall**. Understanding the impacts of integrating New Urbanist neighborhood and street design ideals with conventional traffic engineering standards: the case of Stapleton. *Journal of Urbanism* (doi: 10.1080/17549175.2014.896826), Vol. 8, Issue 2: 148-172, 2015.
11. **Wesley E. Marshall** and Henao, A. The Shock Heard 'Round the Suburbs: Assessing Vulnerability, Resilience, and Transportation Affordability of Higher Fuel Price Scenarios for the Denver Metropolitan Region. *Transportation Research Record* (doi: 10.3141/2531-08), No. 2531: 63-75, 2015
12. Piatkowski, D. and **Wesley E. Marshall**. Not All Prospective Bicyclists are Created Equal: The Role of Attitudes, Socio-Demographics, and the Built Environment in Bicycle Commuting. *Travel Behavior and Society* (doi:10.1016/j.tbs.2015.02.001), Vol. 2, Issue 3: 166-173, 2015.
13. Henao, A., Piatkowski, D., Luckey, K., Nordback, K., Stonebraker, E., **Wesley E. Marshall**, and Krizek, K. Sustainable Transportation Infrastructure Investments and Mode Share Changes: A 20-year case study of Boulder, Colorado. *Transport Policy* (doi:10.1016/j.tranpol.2014.09.012), Vol. 37: 64-71, 2015.
14. Knight, P. and **Wesley E. Marshall**. The Metrics of Street Network Connectivity: Their Inconsistencies. *Journal of Urbanism* (doi: 10.1080/17549175.2014.909515), Vol. 8, Issue 3: 241-259, 2015.
15. Piatkowski, D., Bronson, R., **Wesley E. Marshall**, and Krizek, K. Measuring the Impacts of Bike-to-Work Day Events for Different Populations. *Journal of Urban Planning and Development* (doi: 10.1061/(ASCE)UP.1943-5444.0000239), Vol. 141, Issue 4, 2015.

- 2014
16. Bronson, R. and **Wesley E. Marshall.** Alternative and adaptive transportation: What household and neighborhood factors support recovery from a drastic increase in gas price? *International Journal of Environmental Science and Technology* (doi: 10.1007/s13762-014-0583-2), Vol. 11, Issue 8: 2245-2258, 2014.
 17. Nordback, K., **Wesley E. Marshall**, and Janson, B. Bicyclist Safety Performance Functions for a U.S. City. *Accident Analysis and Prevention* (doi:10.1016/j.aap.2013.12.016), Vol. 65: 114-122, 2014.
 18. Truong, L. and **Wesley E. Marshall.** Are Park-n-Rides Saving the Environment or Just Saving Parking Costs? A Case Study of the Denver Light Rail System. *Transportation Research Record*, No. 2419: 109 – 117, 2014.
 19. Dumbaugh, E., Tumlin, J., and **Wesley E. Marshall.** Decisions, Values, and Data: Understanding Bias in Transportation Performance Measures. *ITE Journal*, Vol. 84, No. 8, 20-25, 2014.
 20. Kim, J., **Wesley E. Marshall** and Pal, I. Disaster Quantification of Constructed Infrastructure Due to the 2013 Flood in Colorado, USA. *Journal of Civil Engineering, ICE*, Vol. 167, Issue 4: 186-191, 2014.
 21. Piatkowski, D. and **Wesley E. Marshall.** “New” vs. “Old” Urbanism: A comparative analysis of travel behavior in large-scale New Urbanist communities and older, more established neighborhoods in Denver, Colorado. *Urban Design International* (doi:10.1057/udi.2013.30), Vol. 19, Issue 3: 228-245, 2014.
- 2013
22. **Wesley E. Marshall.** An Evaluation of Livability in Creating Transit-Enriched Communities for Improved Regional Benefits. *Research in Transportation Business & Management* (doi:10.1016/j.rtbm.2013.01.002), Vol. 7: 54-68, 2013.
 23. Nordback, K., **Wesley E. Marshall**, Janson, B., and Stolz, E. Estimating Annual Average Daily Bicyclists: Errors and Accuracy. *Transportation Research Record*, (doi: dx.doi.org/10.3141/2339-10), No. 2339: 90-97, 2013.
 24. Bern, B. & **Wesley E. Marshall.** Capacity Analysis of Pedestrian Treatments at Large Arterial Intersections & Comparison with Lane-Equivalent, Small Intersection Gridded Networks. *ASCE Journal of Urban Planning and Development*, (dx.doi.org/10.1061/(ASCE)UP.1943-5444.0000156), Vol. 139, No. 4, 241-249, 2013.
 25. Gallagher, P., **Wesley E. Marshall**, and Atkinson-Palombo, C. Missing Links: How Social Paths Can Improve Light Rail Pedestrian Accessibility. *Transportation Research Record* (dx.doi.org/10.3141/2393-07) No. 2393: 59-65, 2013.
 26. Henao, A. and **Wesley E. Marshall.** Parking at Sporting Event Stadiums in Denver, Colorado. *Transportation Research Record* (dx.doi.org/10.3141/2359-03), No. 2359: 17-26, 2013.
 27. Cook, J., Bose, M., **Wesley E. Marshall**, and Main, D. How Does Measuring ‘Design Quality’ Add to Our Understanding of Walkable Communities? *Landscape Journal* (doi: 10.3368/lj.32.2.151) Vol. 32, Issue 2: 151-166, 2013.
 28. Zheng, J., Garrick, N., Atkinson-Palombo, C., McCahill, C., and **Wesley E. Marshall.** Guidelines for Developing Performance Metrics for Evaluating Transportation Sustainability. *Research in Transportation Business & Management*, Vol. 7: 4-13, 2013.
 29. Atkinson-Palombo, C., Garrick, N., and **Wesley E. Marshall.** Valuing Transportation: Measuring What Matters for Sustainability. *Research in Transportation Business & Management*, Vol. 7: 1-3, 2013.
- 2012
30. **Wesley E. Marshall** and Garrick, N. Community Design, Land Use, and How Much We Drive. *Journal of the Transport and Land Use* (dx.doi.org/10.5198/jtlu.v5i2.301), Vol. 5, No. 2: 5-21, 2012.
- 2011
31. **Wesley E. Marshall** and Garrick, N. Does Street Network Design Affect Traffic Safety? *Accident Analysis and Prevention* (doi: 10.1016/j.aap.2010.10.024), Vol. 43, Issue 3: 769-781, 2011.

32. **Wesley E. Marshall** and Garrick, N. Evidence on Why Bike-Friendly Cities are Safer for all Road Users. *Journal of Environmental Practice*, (dx.doi.org/10.1017/S1466046610000566), Vol. 13, Issue 1: 16-27, 2011.
33. Nordback, Piatkowski, Janson, **Wesley E. Marshall**, Krizek, and Main. Testing Inductive-Loop Bicycle Counters on Shared Roadways. *Journal of Transportation of the Institute of Transportation Engineers*, Vol. 2, No. 1: 39-56, 2011.
- 2010 34. **Wesley E. Marshall** and Garrick, N. The Effect of Street Network Design on Walking and Biking. *Transportation Research Record* (dx.doi.org/10.3141/2198-12), No. 2198: 103-115, 2010.
35. **Wesley E. Marshall** and Garrick, N. Street Network Types and Road Safety: A Study of 24 California Cities. *Urban Design International Journal* (doi:10.1057/udi.2009.31), Vol. 15, Issue 3: 133-147, 2010.
- 2009 and earlier 36. **Wesley E. Marshall**, Garrick, N., and Hansen, G. Reassessing On-Street Parking. *Transportation Research Record* (doi: 10.3141/2046-06), No. 2046: 45-52, 2008.
Wootan Award Winner for Outstanding TRB Paper in the field of Policy & Organization.
37. **Wesley E. Marshall** and Garrick, N. Parking at Mixed-Use Centers in Small Cities. *Transportation Research Record* (dx.doi.org/10.3141/1977-21), No. 1977: 164-171, 2006.

Papers currently under peer-review

38. **Wesley E. Marshall** and Dumbaugh, E. Traffic Congestion and Economic Well-Being. *Transportation Research – Part A* (revise and resubmit).
39. McAndrews, C. and **Wesley E. Marshall**. Livable Streets, Livable Arterials? Characteristics of Commercial Arterial Roads Associated with Residential Satisfaction. *Journal of the American Planning Association* (under review).
40. Rosenlieb, E., McAndrews, C., **Wesley E. Marshall**, and Troy, A. Patterns in Transportation and Land Use Associated with Differential Exposure to Traffic by Race/Ethnicity and Socio-Economic Status. *Health & Place* (under review).
41. Piatkowski, D., **Wesley E. Marshall**, and Krizek, K. Carrots Versus Sticks: Assessing Intervention Effectiveness and Implementation Challenges For Active Transport. *Transportation* (revise and resubmit).
42. Ferenchak, N. and **Wesley E. Marshall**. Spontaneous Order of Pedestrian and Vehicle Interactions in Shared Spaces. *Transportation Research – Part F* (revise and resubmit).
43. Henaio, A. and **Wesley E. Marshall**. A Transportation Economic Resilience (TER) rating system for measuring expenditure impacts. *Urban Studies* (revise and resubmit).
44. Luckey, K., **Wesley E. Marshall**, Durso, C., and Atkinson-Palombo, C. Residential preferences, transit accessibility and social equity: Insights from the Denver region. *Journal of Urbanism* (under review).
45. Ferenchak, N. and **Wesley E. Marshall**. The Relative (In)effectiveness of Bicycle Sharrows on Ridership and Safety Outcomes. *Accident Analysis and Prevention* (under review).

Book Chapters (with peer-review)

46. Henaio, A. and **Wesley E. Marshall**. “A Framework for Understanding the Impacts of Ridesourcing on Transportation” in *Disrupting Mobility* by Editors S. Shaheen and G. Meyer, Springer Publishing, 2016 (accepted).
47. **Wesley E. Marshall**, Garrick, N., and Marshall, S. “Street Networks” in *International Handbook on Transport and Development* by Editors R. Hickman, D. Bonilla, M. Givoni, and D. Banister, Edward Elgar Publishing, 2015.

48. **Wesley E. Marshall.** “On-Street Parking” in *Parking: Issues and Policies* of the Transport and Sustainability series (Vol. 5) by Editors S. Ison and C. Mulley, Emerald Publishing, 2014.
49. Garrick, N. and **Wesley E. Marshall.** “Parking – When Less is More” in *Sustainable and Resilient Communities: A Comprehensive Action Plan for Towns, Cities, and Regions* by S.J. Coyle (Ed.) with foreword by Andrews Duany. John Wiley and Sons, Hoboken, NJ, 2011.

Book Publications (non-peer-reviewed)

CNU Project for Transportation Reform Sustainable Street Network Working Group. Sustainable Street Network Principles (ISBN: 978-1-4675-1082-0). Congress for the New Urbanism, Chicago, 2012.

Final research reports

Wesley E. Marshall and McAndrews, C. Does the Livability of a Residential Street Depend on the Characteristics of the Neighboring Street Network? Mountain Plains Consortium, 2016.

Wesley E. Marshall, Henao, A., and Bronson, R. Building a Framework for Transportation Resiliency and Evaluating the Resiliency Benefits of Light Rail Transit in Denver, Colorado. Mountain Plains Consortium, 2015.

Nordback, K., Wesley E. Marshall, and Janson, B. Development of Estimation Methodology for Bicycle and Pedestrian Volumes Based on Existing Counts. Colorado Department of Transportation, 2013.

Atkinson-Palombo, C. and **Wesley E. Marshall.** Quantifying Transit-Oriented Development’s Potential Contribution to Federal Policy Objectives on Transportation-Housing-Energy Interactions. Center for Transportation and Livable System (CTLS) at the University of Connecticut, 2013.

Garrick, N. and **Wesley E. Marshall.** Improved Characterizing of Access for Assessing the Impact of Community Design on Active Transportation and Health Outcomes. New England University Transportation Center (NEUTC) at MIT, 2013.

Garrick, N., **Wesley E. Marshall,** and Jackson, E. Value Pricing in Connecticut. Joint Highway Research Advisory Council (JHRAC) through the CT Cooperative Highway Research Program, 2008.

Conference Presentations

Scholarly Conference Presentations (with peer-reviewed conference papers)

1. **Wesley E. Marshall** and McAndrews, C. Understanding Livable Streets in the Context of the Arterials that Surround Them. *Transportation Research Board*; Washington, D.C.; January 2017.
2. **Wesley E. Marshall.** The All-Consuming Nature of Parking at Purported TODs. *Transportation Research Board*; Washington, D.C.; January 2017.
3. Piatkowski, D., **Wesley E. Marshall** and Johnson, A. Bicycle Backlash: Qualitative Examination of Aggressive Driver-Bicyclist Interactions. *Transportation Research Board*; Washington, D.C.; Jan. 2017.
4. Golombek, Y. and **Wesley E. Marshall.** Remotely Sensed Data in Road Safety Research. *Transportation Research Board*; Washington, D.C.; January 2017.
- 2016 5. Luckey, K. and **Wesley E. Marshall.** Residential Preferences, Transit Accessibility, and Social Equity. *Transportation Research Board*; Washington, D.C.; January 2016.
6. Ferenchak, N. and **Wesley E. Marshall.** Relative (In)Effectiveness of Bicycle Sharrows on Ridership and Safety Outcomes. *Transportation Research Board*; Washington, D.C.; January 2016.
- 2015 7. **Wesley E. Marshall** and Ferenchak, N. The American Story of Inequitable Road Safety Outcomes. *Congress for the New Urbanism Annual Meeting*; Dallas, TX; April 2015.
8. Piatkowski, D., **Wesley E. Marshall** and Afzalan, N. Does Crowdsourcing Community Input Lead to Equitable Transportation? The Application of Web-based Tools to Inform Bikeshare System Development. *Congress for the New Urbanism Annual Meeting*; Dallas, TX; April 2015.

9. Luckey, K., **Wesley E. Marshall**, Durso, C., and Atkinson-Palombo, C. Residential preferences, transit accessibility, and social equity: Insights from the Denver region. *Congress for the New Urbanism Annual Meeting*, Dallas, TX; April 2015.
10. **Wesley E. Marshall** and Henao, A. The Shock Heard 'Round the Suburbs: Assessing Vulnerability, Resilience, and Transportation Affordability of Higher Fuel Price Scenarios for the Denver Metropolitan Region. *Transportation Research Board*; Washington, D.C.; January 2015.
11. Piatkowski, D. and **Wesley E. Marshall**. Not All Prospective Bicyclists are Created Equal: The Role of Attitudes, Socio-demographics, and The Built Environment in Bicycle Commuting. *Transportation Research Board*; Washington, D.C.; January 2015.
12. Henao, A. and **Wesley E. Marshall**. Fuel Price Shocks, Affordability, and Transportation Economic Resilience. *Transportation Research Board*; Washington, D.C.; January 2015.
- 2014 13. Bronson, R. and **Wesley E. Marshall**. City Resilience and Active Transportation Infrastructure. *Congress for the New Urbanism Annual Meeting*, Buffalo, NY; June 2014.
14. Truong, I. and **Wesley E. Marshall**. Are Park-n-Rides Saving the Environment or Just Saving Parking Costs? A Case Study of the Denver Light Rail System. *Transportation Research Board*; Washington, D.C.; January 2014.
15. Piatkowski, D., Bronson, R., **Wesley E. Marshall**, and Krizek, K. Measuring the Impacts of Bike to Work Day Events for Different Populations. *Transportation Research Board*; Washington, D.C.; January 2014.
16. Luckey, K. and **Wesley E. Marshall**. Understanding the level of integration of light rail transit into communities in the Denver region. *Transportation Research Board*; Washington, D.C.; January 2014.
17. Nordback, K., Bahrami, K., and **Wesley E. Marshall**. Comparison of Non-Motorized and Motorized Traffic Patterns. *Transportation Research Board*; Washington, D.C.; January 2014.
18. Piatkowski, D. and **Wesley E. Marshall**. Carrots Versus Sticks: Assessing Intervention Effectiveness And Implementation Challenges For Walking And Bicycling. *Transportation Research Board*; Washington, D.C.; January 2014.
- 2013 19. **Wesley E. Marshall**, Duvall, A., and Main, D. The Tactical Urbanism Origins of the Denver Bike Sharing System. *Congress for the New Urbanism Annual Meeting*; Salt Lake City, UT; May 2013.
20. Nordback, K., **Wesley E. Marshall**, Janson, B., and Stolz, E. Errors in Estimating Annual Average Daily Bicyclists from Short-term Counts. *Transportation Research Board*; Washington, D.C.; January 2013.
21. Nordback, K., **Wesley E. Marshall**, and Janson, B. Bicyclist Safety Performance Functions for a U.S. City. *Transportation Research Board*; Washington, D.C.; Jan. 2013.
22. Henao, A. and **Wesley E. Marshall**. Parking at Sporting Event Stadiums in Denver, Colorado. *Transportation Research Board*; Washington, D.C.; January 2013.
23. Henao, A., **Wesley E. Marshall**, Luckey, K., Nordback, K., Stonebraker, E., Krizek, K., and Piatkowski, D. Sustainable Transportation Infrastructure Investments and Mode Share Changes: A 20- year case study of Boulder, Colorado. *Transportation Research Board*; Washington, D.C.; January 2013.
24. Gallagher, P., Atkinson-Palombo, C., and **Wesley E. Marshall**. Missing Links: How Social Paths Can Improve Light Rail Pedestrian Accessibility. *Transportation Research Record. Transportation Research Board*; Washington, D.C.; January 2013.
- 2012 25. Luckey, K. and **Wesley E. Marshall**. Assessing Travel Behavior in Transit-Rich Communities in the Denver Metropolitan Area: Does Integration of Transit and the Community Fabric Matter?

- 12th National Light Rail Conference – Sustaining the Metropolis: LRT & Streetcars for Super Cities*; Salt Lake City, UT; November 2012.
26. **Wesley E. Marshall.** Striving for New Urbanist Transportation in an AASHTO World: Stapleton’s Challenges and Opportunities. *Congress for the New Urbanism Annual Meeting*, West Palm Beach, FL; May 2012.
27. **Wesley E. Marshall**, Tang, M., and Durham, S. Integration of Science, Technology, and Society (STS) Courses into the Engineering Curriculum. *ASEE Annual Conference*; San Antonio; June 2012.
28. Durham, S. and **Wesley E. Marshall.** Enhancing a Student’s Engineering Experience through Participation on Student Organizations. *ASEE Annual Conference*; San Antonio, TX; June 2012.
29. Kardos, A., Durham, S., and **Wesley E. Marshall.** "Green Projects to Pavements" A Project-Based Learning Approach to Introducing Sustainability to Civil Engineering Students. *ASEE Annual Conference*; San Antonio, TX; June 2012.
30. Bern, B. and **Wesley E. Marshall.** Arterial Intersections vs. Gridded Street Networks: Comparing Capacities & Pedestrian Accommodations. *Transportation Research Board*; Washington, D.C.; January 2012.
- 2011 31. **Wesley E. Marshall** and Garrick, N. Community Design and How Much We Drive. *World Symposium of Transportation and Land Use Research*; Whistler, BC, Canada; July 2011.
32. Bern, B. and **Wesley E. Marshall.** Signalized Intersections vs. Gridded Street Networks: Comparing Capacities & Pedestrian Accommodations. *Congress for the New Urbanism Annual Meeting*; Madison, WI; June 2011.
33. Durham, S. and **Wesley E. Marshall.** Tips for Succeeding as a New Engineering Assistant Professor. *American Society for Engineering Education (ASEE) Annual Conference*; Vancouver, BC, Canada; June 2011.
34. **Wesley E. Marshall** and Garrick, N. The Spatial Distribution of VMT Based upon Street Network Characteristics. *Transportation Research Board*; Washington, D.C.; January 2011.
35. Nordback, K. and **Wesley E. Marshall.** The Effect of Increased Bicyclist Volumes on Individualized Bicyclist Risk. *Transportation Research Board*; Washington, D.C.; January 2011.
36. Nordback, Piatkowski, Janson, Wesley E. Marshall, Krizek, and Main. Testing Inductive-loop Bicycle Counters on Shared Roadways. *Transportation Research Board*; Washington, D.C.; January 2011.
- 2010 37. Nordback, K. and **Wesley E. Marshall.** Improving Bicycle Safety with More Bikers: An Intersection-Level Study. *American Society of Civil Engineers; Green Streets and Highways Conference*; Denver, CO; November 2010.
38. **Wesley E. Marshall** and Garrick, N. Evidence on Why Bike-Friendly Cities are Safer for all Road Users. *Congress for the New Urbanism Annual Meeting*; Atlanta, GA; May 2010.
39. **Wesley E. Marshall** and Garrick, N. The Effect of Street Network Design on Walking and Biking. *Transportation Research Board*; Washington, D.C.; January 2010.
- 2009 and earlier 40. **Wesley E. Marshall** and Garrick, N. The Shape of Sustainable Street Networks for Neighborhoods & Cities. *Congress for the New Urbanism Annual Meeting*; Denver, CO; June 2009.
41. **Wesley E. Marshall** and Garrick, N. Urbanism and Parking Demand in New England. *Congress for the New Urbanism Annual Meeting*; Austin, TX; April 2008.
42. **Wesley E. Marshall** and Garrick, N. Reassessing On-Street Parking. *Transportation Research Board*; Washington, D.C.; January 2008.
43. **Wesley E. Marshall** and Garrick, N. Parking at Mixed-Use Centers in Small Cities. *Transportation Research Board*; Washington, D.C.; January 2007.

Scholarly Conference Presentations

44. The Relative (In)effectiveness of Bicycle Sharrows on Safety Outcomes (with N. Ferenchak). *University Transportation Center Spotlight Conference on Pedestrian and Bicycle Safety*, Washington, DC; December 2016.
45. Redefining the Child Pedestrian Safety Paradigm: Identifying High-Fatality Concentrations Around Parks (with N. Ferenchak). *University Transportation Center Spotlight Conference on Pedestrian and Bicycle Safety*, Washington, DC; December 2016.
46. Estimating Lives Saved and Injuries Reduced by Bicycle Helmet Use in Denver (with B. Janson & N. Ferenchak). *University Transportation Center Spotlight Conference on Pedestrian and Bicycle Safety*, Washington, DC; December 2016.
47. Motorist-Cyclist Crash Data Needs in U.S. Communities (with Gibson, G., Kothuri, S., Nordback, K., and Ferenchak, N.). *University Transportation Center Spotlight Conference on Pedestrian and Bicycle Safety*, Washington, DC; December 2016.
48. Bicycle backlash: A mixed-methods examination of aggression toward bicyclists (with D. Piatkowski & A. Johnson). *Association of Collegiate Schools of Planning Annual Conference*, Portland, OR; November 2016.
49. Redefining the Child Pedestrian Safety Paradigm (presentation with N. Ferenchak). *Pro Walk/Pro Bike/Pro Place*, Vancouver, BC, Canada; September 2016.
50. The Relative (In)Effectiveness of Bicycle Sharrows on Safety Outcomes (presentation with N. Ferenchak). *Pro Walk/Pro Bike/Pro Place*, Vancouver, BC, Canada; September 2016.
51. Impacts of Lyft and Uber on Transportation (presentation with A. Henao). *ITE Western District Annual Meeting*; Albuquerque, NM; July 2016.
52. The Sustainability Impacts of Ridesourcing (presentation with A. Henao). *The Transportation Research Board Innovations in Travel Modeling Conference*, Denver, CO; May 2016.
53. A Framework for Understanding the Impacts of Ridesourcing on Transportation (presentation with A. Henao). *ITE Colorado-Wyoming Section Transportation Symposium*, Denver, CO; April, 2016.
54. Relative (In)Effectiveness of Bicycle Sharrows on Ridership and Safety Outcomes (poster presentation with N. Ferenchak). *Active Living Research Conference*; Clearwater, FL; February 2016.
55. Redefining the Child Pedestrian Safety Paradigm: Identifying High Fatality Concentrations around Parks (poster presentation with N. Ferenchak). *Active Living Research Conference*; Clearwater, FL; February 2016.
- 2015 56. Effects of Information and Communication Technologies (ICT) and Evolving Transportation Services on Modality Styles and Travel Mode Choice (poster presentation with A. Henao). *Disrupting Mobility Summit*; Boston, MA; November 2015.
57. Scofflaw Cycling: Behavior, intention, and multi-modal interactions (presentation with D. Piatkowski). *Association of Collegiate Schools of Planning (ASCP)*; Houston, TX; October 2015.
58. Investigating preferences for transit- and pedestrian-accessible neighborhoods among low-income and more affluent households through insights from the Denver region (presentation with K. Luckey). *Association of Collegiate Schools of Planning (ASCP)*; Houston, TX; October 2015.
59. Child Pedestrian Safety: Examining Opportunities for Improvements around Parks (presentation with N. Ferenchak). *APBP Development Seminar*; St. Louis, MO; September 2015.
60. Comparing and evaluating the impacts of evolving urban transportation modes including carsharing, on-demand ridesourcing, and intermodality (presentation with A. Henao). *ITE Western District Annual Meeting*; Las Vegas, NV; July 2015.

61. Spontaneous Order Of Pedestrian And Vehicle Interactions In Shared Spaces (presentation with N. Ferenchak). *ITE Western District Annual Meeting*; Las Vegas, NV; July 2015.
62. Locating and Addressing our Child Pedestrian Fatalities within Denver (poster presentation with N. Ferenchak). *ITE Colorado-Wyoming Section Transportation Symposium*; Denver, CO; May 2016.
63. Transportation Ideas: Intermodal Travel Technologies (presentation with A. Henao). *Congress for the New Urbanism Annual Meeting*; Dallas, TX; April 2015.
64. Culture Wars: Understanding Tensions between drivers and cyclists (presentation with D. Piatkowski). *Georgia Bike Summit*; Milledgeville, GA; March 2015.
- 2014 65. Livable Streets, Livable Arterials? (presentation with C. McAndrews, L. Mitchell, and C. Fisher). *Association of Collegiate Schools of Planning (ASCP)*; Philadelphia, PA; November 2014.
66. Creating Seasonal and Daily Adjustment Factors for Nonmotorized Traffic in Colorado (presentation with K. Nordback). *North American Travel Monitoring Exposition and Conference (NATMEC)*; Chicago, IL; July 2014.
67. Effects of Fuel Price Shocks in Transportation Economic Resilience and Affordability (presentation with A. Henao). *ITE Colorado-Wyoming Section Transportation Symposium*; Denver, CO; April 2014.
68. Street Vitality and Urban Design (poster presentation with C. Fisher). *ITE Colorado-Wyoming Section Transportation Symposium*; Denver, CO; April 2014.
69. Measuring the Livability of Streets: Community Surveys (poster presentation with L. Mitchell). *ITE Colorado-Wyoming Section Transportation Symposium*; Denver, CO; April 2014.
- 2013 70. Alternative and Adaptive Transportation: How do the Availability of Bicycle, Pedestrian, and Transit Facilities Improve a Community's Resiliency (poster presentation with R. Bronson)? *Bicycle Urbanism Symposium*; Seattle, WA; June 2013.
71. Counting Bicyclists in Colorado (with K. Nordback). *Bicycle Urbanism Symposium*; Seattle, WA; June 2013.
72. Evaluating the Impacts of Bike to Work Day on Different Types of Cyclists (poster presentation with Piatkowski, D., Bronson, R., and Krizek, K.). *Bicycle Urbanism Symposium*, Seattle, WA; June 2013.
73. Alternative and adaptive transportation: how do the availability of bicycle, pedestrian and transit facilities improve a community's resiliency? (poster presentation with R. Bronson). *ITE Colorado-Wyoming Section Transportation Symposium*; Denver, CO; April, 2013.
74. Parking at Sporting Event Stadiums in Denver, Colorado (with A. Henao). *ITE Colorado-Wyoming Section Transportation Symposium*; Denver, CO; April, 2013.
75. Sustainable Transportation Infrastructure Investments and Mode Share Changes: A 20- year case study of Boulder, Colorado (poster presentation with A. Heano). *ITE Colorado-Wyoming Section Transportation Symposium*; Denver, CO; April, 2013.
76. "New" vs. "Old" Urbanism: A comparative analysis of travel behavior in large-scale New Urbanist communities and older, more established neighborhoods in Denver, Colorado (poster presentation with D. Piatkowski). *ITE Colorado-Wyoming Section Transportation Symposium*; Denver, CO; April, 2013.
- 2012 77. Educating the 21st Century Transportation Engineer (poster presentation). *CU-Boulder STEM Education Showcase*; Boulder, CO; October 2012.
78. Integration of Science, Technology, and Society (STS) Courses into the Engineering Curriculum and Beyond (poster presentation with Tang, Knauss, and Durham). *CU-Boulder STEM Education Showcase*; Boulder, CO; October 2012.
- 2011 79. Characterizing Light-Rail TODs on a Livability Continuum: From Transit-Adjacent Developments to Transit-Enriched Communities. *Rail~Volution*; Washington, D.C.; October 2011.

80. The Impact of Street Configuration on the Safety of Pedestrians and Bicyclists (with E. Stonebraker). *Association of Collegiate Schools of Planning (ASCP)*; Salt Lake City, UT; October 2011.
81. Assessing Preferences for Transit-Oriented Communities in Denver, Colorado (with K. Luckey). *Association of Collegiate Schools of Planning (ASCP)*; Salt Lake City, UT; October 2011.
82. Safety in Numbers: The Case of Bicyclists in Boulder (with K. Nordback). *ITE Colorado-Wyoming Section Transportation Symposium*; Denver, CO; April, 2011.
- 2010**
83. Estimating Bicycle Traffic Volumes on a Network (with K. Nordback). *North American Regional Science Council Annual Meeting*; Denver, CO; November 2010.
84. The Evolution of Communities in the Denver Metro after Light Rail Installation (with M. Louis). *North American Regional Science Council Annual Meeting*; Denver, CO; November 2010.
85. The Efficacy of New Urbanist Street Networks: How Much We Drive (with N. Garrick). *Association of American Geographers Annual Meeting*; Washington D.C.; April 2010.
- 2009 and earlier**
86. How Street Networks Affect Transportation Safety, Mode Choice & Emergency Response (with N. Garrick). *Congress for the New Urbanism Transportation Summit*; Portland, OR; November 2009.
87. The Street Network, Placemaking, and Sustainability (with N. Garrick). *Congress for the New Urbanism Transportation Summit*; Charlotte, NC November 2008.
88. Design Characteristics of Sustainable Centers (poster presentation). *Climate Change Conference: Science, Policy and Strategies a Changing World*; Storrs, CT; November 2007.
89. Parking and Streets: Getting it Right. *Congress for the New Urbanism, New England Chapter Annual Conference*; Lowell, MA; March 2006.
- Invited Presentations**
90. Panelist on Vision Zero: Shared Mobility, Shared Network, Shared Safety, *Live.Ride.Share Conference*; Denver, CO; May 2016.
91. Panelist on the Future of Transportation in Denver Summit, ITE and WTS; Denver, CO; December 2015.
92. Panelist for “Bikes vs. Cars” film screening, RNL Design; Sie FilmCenter, Denver, CO; December 2015.
93. “Bike-Friendly Cities: A Road Safety Paradox.” *ITE Colorado-Wyoming Section Transportation Symposium*; Denver, CO; April, 2015.
94. “Complete Streets & Incomplete Cities.” *UCLA Complete Streets Conference*; Los Angeles, CA; February 2013.
95. “The Cultural Evolution of Transportation Safety Data.” *Culture of Data Conference*; Arvada, CO’ October 2012.
96. Buechner Breakfast First Friday: Health and the Built Environment. School of Public Affairs, University of Colorado Denver; Denver, CO; August 2012.
97. “Rethinking Light Rail Transit in the Mile High City.” ETH Zurich; Zurich, Switzerland; March 2012.
98. “Street Networks: Road Safety, Travel Behaviors, and Emergency Response.” *Institute of Transportation Engineers Annual Meeting*; Vancouver, B.C.; August 2010.
99. Community of Professional Masters' Degrees in GIS & Transportation (panel session). *Association of American Geographers Annual Meeting*; Washington D.C.; April 2010.
100. “Making Downtown Parking Work.” Downtown Revitalization Institute, Connecticut Main Street Center; West Hartford, CT; April 2008.

- 101. "Parking: Redefining the Quantity Quandary for a Quality Downtown." University of Connecticut Transportation Seminar Series; Storrs, CT; November 2007.
- 102. "Visualizing Change in a Downtown." Downtown Revitalization Institute, Connecticut Main Street Center; New Haven, CT; April 2007.
- 103. "Parking: How Much is Enough?" Shared Parking & Walkable Downtowns. *Creating Walkable Communities Conference*; Corning, NY; April 2007.
- 104. "Parking in a Town Center." Downtown Revitalization Institute, Connecticut Main Street Center; New Britain, CT; April 2006.
- 105. "Integrating the Bike Network into the Transportation System: Cambridge, MA." University of Connecticut Transportation Seminar Series; Storrs, CT; February 2006.
- 106. "Child Pedestrian Safety: A New Curriculum for Connecticut." University of Connecticut Transportation Seminar Series; Storrs, CT; September 2005.

Session Chair or Discussant

- 107. Group Leader, Transportation Reform Research Agenda Working Group. *Congress for the New Urbanism Transportation Summit*; New York City, NY; October 2014.
- 108. Session Moderator and Discussant; *Congress for the New Urbanism Conference*; Buffalo, NY; May 2014.
- 109. Group Leader, Transportation Reform Research Agenda Working Group. *Congress for the New Urbanism Transportation Summit*; Chicago, IL; November 2013.
- 110. Group Leader, Transportation Reform Research Agenda Working Group. *Congress for the New Urbanism Transportation Summit*; Long Beach, CA; September, 2012.
- 111. Session Chair, World Symposium for Transport and Land Use Research; Whistler, BC, Canada; July 2011.
- 112. Discussant, Built Environment Tour presenter. *American Public Health Association (APHA) Annual Conference*; Denver, CO; November 2010.
- 113. Session Chair and Discussant, Sustainable Cities: Educating Engineers for the 21st Century (with Atkinson-Palombo and Garrick). *Congress for the New Urbanism Transportation Summit*; Portland, OR; November 2009.

Sponsored Research Projects

PI: "GAANN – Transportation Engineering for Safe, Healthy, and Resilient Communities"	through the U.S. Department of Education, 2016 – 2018.	\$568,284
PI: Endeavour Research Sabbatical Fellowship, Australian Government, 2017.		\$18,500
PI: "Impacts of Ridesourcing on VMT, Parking Demand, Transportation Equity, and Travel Behavior" through the Mountain Plains Consortium (MPC), 2016-2018.		\$80,000
PI: "Redefining the Child Pedestrian Safety Paradigm: Identifying High Fatality Concentrations in Urban Areas" through the MPC, 2016-2018.		\$70,000
PI: "WalkDenver Wayfinder Academy Evaluation" via the Denver Regional Council of Governments and the Colorado Health Foundation, 2016-2017.		\$29,000
PI: "The Unresolved Relationship between Street Trees and Safety" through the MPC, 2015-2017.		\$135,000
Co-PI (w/ C. McAndrews): "Effects of Infill Development and Regional Growth on At-Risk Populations' Exposure to Traffic Density" through the MPC, 2015-2017.		\$60,000

Co-PI (w/ R. Rorrer): “Snow and Ice Mitigation Modifications to LED Traffic Light Lenses: Part 2” through the Colorado Department of Transportation (CDOT), 2015-2017.	\$75,000
Co-PI (w/ K. Nordback): “Improving Bicycle Crash Prediction” through the National Institute for Transportation and Communities (NITC)	\$125,000
PI: “Why are Bike-Friendly Cities Safer for All Road Users?” through the MPC, 2014-2016.	\$146,991
PI: “Building a Framework for Transportation Resiliency and Evaluating the Resiliency Benefits of Light Rail Transit” through the MPC, 2012 – 2014.	\$125,000
PI: “Does the Livability of a Residential Street Depend on the Characteristics of the Neighboring Street Network?” through the MPC, 2013 – 2015.	\$80,916
PI: “Metro Vision: From Regional Framework to Strategic Action Plan Outcomes Assessment and Knowledge Sharing (OAKS)” through the Denver Regional Council of Governments (DRCOG) and the U.S. Department of Housing and Urban Development (HUD) Sustainable Communities Regional Planning Grant Program, 2013 – 2014.	\$100,000
PI: “Development of Estimation Methodology for Bicycle and Pedestrian Volumes” through CDOT, 2011 – 2013.	\$75,000
Co-PI (w/ R. Rorrer): “Snow on Traffic Signals” through CDOT, 2013 – 2015.	\$50,000
PI (w/ C. McAndrews): “Residential Street Design & Livability” through the Center for Faculty Development, 2013.	\$10,000
Co-PI (w/ N. Garrick): “Assessing the Health Impacts of Community and Street Design” through the New England University Transportation Center (NEUTC), 2010 - 2011.	\$99,940
Co-PI (w/ C. Atkinson-Palombo): “Quantifying Transit-Oriented Development’s Potential Contribution to Federal Policy Objectives on Transportation-Housing-Energy Interactions” through the Center for Transportation and Livable System (CTLS), 2010 – 2011.	\$78,272
PI: “Community Design, Road Safety & Transportation Sustainability” through the Center for Faculty Development, 2010.	\$2,000
TOTAL:	\$2,024,903

Grants / Fellowships for dissertation research

<i>Dwight D. David Eisenhower Graduate Fellowship.</i> U.S. Department of Transportation, Federal Highway Administration, 2007 – 2009.	\$63,000
“Community Design and Transportation Safety” through the New England University Transportation Center, 2007 – 2010.	\$100,000
<i>Advanced Graduate Students Fellow.</i> University of Connecticut, 2008.	\$2,000
<i>Pre-doctoral Fellow,</i> University of Connecticut, 2007, 2009.	\$4,000
TOTAL:	\$169,000

**Honors
& Awards**

- 2016 *Winner of the Outstanding Faculty in Research Award*, College of Engineering and Campus-wide, University of Colorado Denver
- 2016 Recipient of an Endeavour International Fellowship from the Australian Government Department of Education and Training
- 2015 *TRB Certificate of Appreciation* in Recognition for Excellent Work as Research Coordinator for the Standing Committee on Transportation Issues in Major Cities
- 2013 *Winner of the Outstanding Faculty in Teaching Award*, College of Engineering, University of Colorado Denver
- 2009 *Charley V. Wootan Award for Outstanding TRB Paper in Policy and Organization*, Transportation Research Board
- 2007 – 2009: *Dwight D. Eisenhower Transportation Fellow*, U.S. Department of Transportation
- 2008 *U.S. Department of Transportation University Transportation Center Outstanding Student of the Year*, Center for Transportation and Urban Planning (CTUP) at the University of Connecticut
- 2008 *Fellowship for Advanced Graduate Students in Civil Engineering*, University of Connecticut
- 2007, 2009 *Pre-doctoral Fellow*, University of Connecticut
- 2004 – 2005: *New England University Transportation Center (NEUTC) Graduate Fellow*
- *Inducted 1997 – Golden Key International Honour Society*, University of Virginia
- *Inducted 1996 – Tau Beta Pi*, University of Virginia
- *1996 Intermediate Honors*, University of Virginia

**Teaching
Experience**

University of Colorado Denver

- CVEN 3602: **Transportation Engineering I** (Spring 2012)
- CVEN 4602: **Highway Engineering** (Fall 2010, 2011)
- CVEN 5381: **Introduction to GIS** (Fall 2009 – 2015, Spring 2012 – 2013, Spring 2016)
- CVEN 5602: **Advanced Street and Highway Design** (Fall 2010, 2011)
- CVEN 5633/URPL 6686/PUAD 7600: **Sustainable Transportation Systems** (Spring 2010, 2011, 2013 – 2016)
- CVEN 5662: **Transportation System Safety** (Fall 2015)
- LA 6606 Studio (Fall 2010) Guest Lecturer and Advisor to Student Projects
- URBN 6610 Urban Design Studio (Fall 2012) Invited Design Jury Member and Guest Lecturer

University of Connecticut

- CE 4410: **Site Engineering** (Spring 2007)
- CE 4710/5710: **Case Studies in Transportation Engineering**, Guest Lecturer (2006 – 2009)
- CE 2710: **Transportation Engineering**, Guest Lecturer (2006 – 2009)

**Graduate
Student
Advising**

Doctoral Students Supervised:

PhD Students

1. Matt Cross, *Integrating Land Use & Environmental Change with Remote Sensing*, 2011 – present
2. Yaneev Golombek, 2014 – present
3. Alejandro Henao, *Effects of Information and Communication Technologies and Evolving Transportation Services on Travel Behavior*, 2014 – present

4. Nick Ferenczak, 2014 - present

PhD Students Co-Advise (through NSF IGERT program)

1. Kara Luckey, Co-Advise with Kevin Krizek, Who Benefits from Regional Sustainability Initiatives? Assessing Social Equity Associated with Regional Rail Transit, 2010 – present

Doctoral Committees

1. Jerry Ogden, Vehicle/Load Specific Yaw Mass Moment of Inertia Determination, and Dissipated Energy Analysis Methods for Heavy Truck and Commercial Vehicle Impacts, Graduated Fall 2015
2. Mansour Al-Turki, Effectiveness of Traffic Enforcement Cameras on Safety, Graduated Spring 2014
3. Pam Fischhaber, Doctoral, Light Rail Crossing Specific Accident and Hazard Prediction Models, Graduated Spring 2014
4. Dan Piatkowski, Evaluating the Effectiveness of the Nonmotorized Transportation Pilot Program: Successful Interventions, Works in Progress, and Directions for Practice, Graduated Fall 2013
5. Josh Sperling, Health as a Motivator for Low-Carbon Infrastructures in Asian Cities: A Framework for Assessment of Risk, Vulnerability, and Mitigation, Graduated Fall 2013
6. Eric Stonebraker, Attachment to Place, Spring 2010 – Fall 2013
7. Susi Marlina, Improving Representation of Freight Movement in Micro-Simulation, Graduated Spring 2012
8. Andrew Duvall, Public Bicycle Sharing as a Population-Scale Health Intervention for Active Transportation in Denver, Colorado, Graduated Spring 2012
9. Markos Atamo, Safety Assessment of Freeway Merging and Diverging Influence Areas Based on Conflict Analysis of Simulated Traffic, Graduated Spring 2012
10. Krista Nordback, Quantifying Bicycle Use and its Health and Safety Impacts in Communities, Graduated Summer 2012

Recent Master's Students

1. Alejandro Henao, Fuel Price Shocks, Affordability, and Transportation Economic Resilience (2015)
2. Andrew Kovacs, Critical Infrastructure Risk Mitigation with Geographic Information Systems (2015)
3. Anne Miller, Comparing Estimates of Bicycle Passing and Meeting Events on an Off-Street Bike Path in Denver (2015)
4. Anthony Nazareus, LEED-ND from a Residential Development and GIS Perspective (2015)
5. Daniel Bremenstuh, Correlation Between Block Group Intersection Density and Motorcycle Accidents in the Greater Denver Colorado Area (2015)
6. Daniel Follett, TurnFlows Web Application (2015)
7. Eric Stonebraker, Investigating the relationship between neighborhood accessibility and mode share across Boulder (2015)
8. Heather Erickson, Demographics and Statistical Spatial Analysis Pertaining to the Location of Marijuana Dispensaries in Denver County (2015)
9. Katrina Kloberdanz, Contrast Pavement Markings: A Before and After Collision Study (2015)
10. Leonardo Cortes, Geographic Information System Assessment for a Municipality (2015)
11. Lindsay Gartner, Assessing the Availability of Sun at Selected Grand Canyon Campsites (2015)
12. Mathew Trostle, Trends in DUI Rates Near Light Rail Stations in Denver (2015)
13. Nicole Ellison, GIS Approach to Wind Exposure (2015)
14. Ross Browning, Identifying Crash Data Systems in the United States and Analyzing the Validity of the National Automotive Sampling System General Estimates System (NASS GES) (2015)
15. Tong Wen, Cyclists & Drivers Scofflaw Behavior in Colorado Bike Corridors (2015)
16. Warren Schaefer, Examining Risk and Child Traffic Injuries in Denver, Colorado (2015)
17. Carlie Campuzano, Safety Analysis of the Flashing Yellow Arrow Protected/Permissive Left-turn Indicator (2014)

18. Joseph Boateng, Examining Crash Frequency and Severity and Other Crash Factors (2014)
19. Steffie Gould, Land Use as a Determinant of Urban Water Use (2014)
20. TJ Accola, Simplified Inundation Model and Social Vulnerability Assessment (2014)
21. Tracy Musil, Viewshed Analysis for 80+ Overlooks in the Shenandoah National Park Using Modelbuilder and ArcGIS (2014)
22. Elizabeth Crawley, Street Stress Levels and Park Use (2013)
23. Esayas Butta, Identifying Pedestrians/Bike-Vehicle Accident Hot Spots & Unsafe Transit with Respect To Road Type (2013)
24. Jessica Gross, Implementation of Data Management Standards for Continental Divide National Trail (2013)
25. Kowat Bahrami, Environmental Sustainability of TODs in the Denver Region (2013)
26. Lisa Truong, The Effect of Park-n-Rides on Greenhouse Gas Emissions (2013)
27. Max Henkle, Determining Active Transport Accessibility Along Existing Light Rail Stations (2013)
28. Rachael Bronson, Alternative and adaptive transportation: What household and neighborhood factors support recovery from a drastic increase in gas price? (2013)
29. Stephen Hoefler, Creation of 3D Building Structures for Building an Virtual Urban Environment by Using GIS Applications (2013)
30. Thomas Lee, GIS Optimized Routing of Electric Vehicles for Maximized Energy Efficiency (2013)
31. Yeonju Kim, Evaluating Water Use between 1995 and 2005: The Influence of Population Growth, Climate Change, and Land Use Change in the Denver Area (2013)
32. Allen Johnson, Community Hazard and Vulnerability Mapping: A study of hazard and vulnerability identification methods applied to communities surrounding Nashua, New Hampshire (2012)
33. Jeffrey Maxwell, Influence of a Signalized Mid-block Pedestrian Crosswalk on the Operational Efficiency of Arterial Traffic (2012)
34. Joey Garcia, GIS User Interface to Match Commercial Land Availability with Users (2012)
35. Monika Thorpe, A Conceptual Design for a GIS-Driven Guidance Tool for Public Parking at O'Hare International Airport (2012)

**Published
Commentary**

1. **Wesley E. Marshall**, "Elements of Access: Clustering." The Transportist, <https://transportist.org/2016/10/31/elements-of-access-clustering/>, October 2016.
2. **Wesley E. Marshall**, "Elements of Access: Betweenness." The Transportist, <https://transportist.org/2016/10/20/elements-of-access-betweenness/>, October 2016.
3. **Wesley E. Marshall**, "Elements of Access: Degree." The Transportist, <https://transportist.org/2016/10/03/elements-of-access-degree/>, October 2016.
4. **Wesley E. Marshall**, "Elements of Access: Introduction to Topology." The Transportist, <https://transportist.org/2016/09/19/elements-of-access-introduction-to-topology/>, Sept. 2016.
5. **Wesley E. Marshall**, "Elements of Access: Roundabouts." The Transportist, <https://transportist.org/2016/06/20/elements-of-access-roundabouts/>, June 2016.
6. **Wesley E. Marshall**, "Elements of Access: One-Way Streets." The Transportist, <https://transportist.org/2015/05/11/elements-of-access-one-way-streets/>, May 2015.
7. **Wesley E. Marshall**, "Elements of Access: Spontaneous Priority." The Transportist, <https://transportist.org/2015/04/13/elements-of-access-spontaneous-priority/>, April 2015.
8. **Wesley E. Marshall**, "Elements of Access: Risk Compensation." The Transportist, <https://transportist.org/2015/03/23/elements-of-access-risk-compensation/>, March 2015.
9. **Wesley E. Marshall**, "Elements of Access: Induced Demand." The Transportist, <https://transportist.org/2015/03/02/elements-of-access-induced-demand/>, March 2015.

10. **Wesley E. Marshall**, “Elements of Access: Shared Spaces.” *The Transportist*, <https://transportist.org/2015/02/09/elements-of-access-shared-spaces/>, February 2015.
11. **Wesley E. Marshall**, “Why Stapleton residents fear their streets: Some lessons from the big Denver development where New Urbanism and conventional traffic engineering collide.” *Better Cities & Towns*, Vol. 1, No. 5, July-August, 2012.
12. N. Garrick and **Wesley E. Marshall**, “Beyond Safety in Numbers: Why Bike Friendly Cities are Safer.” *Planetizen*, June, 27, 2011.
13. **Wesley E. Marshall**, “Creating a Safer and More Sustainable Stapleton.” *Front Porch Newspaper*, Feb. 2011.
14. **Wesley E. Marshall** and N. Garrick, “Place First Parking Plans.” *Planetizen*, August, 19, 2008.
15. N. Garrick and **Wesley E. Marshall**, “What Street Parking Can Do for Downtowns.” *Hartford Courant*, May 18, 2008.
16. **Wesley E. Marshall**, “Reprioritizing Parking for Your Town Center.” *APA Connecticut Chapter*, April – June 2008.
17. N. Garrick and **Wesley E. Marshall**, “On-Street Parking: An Untapped Resource for Downtown.” *Connecticut Technology Transfer Center Newsletter*, December 2007.
18. N. Garrick and **Wesley E. Marshall**, “Parking: How Much is Enough?” *Connecticut Transportation Institute (CTI) Technology Transfer Center Newsletter*, December 2005. 2007 – 2009: *Dwight D. Eisenhower Transportation Fellow*, U.S. Department of Transportation

**Selected
News &
Press**

- **Reuters**, January 2017. “Child Pedestrian Deaths More Likely Around Parks” by Carolyn Crist, www.reuters.com/article/us-health-children-pedestrian-safety-idUSKBN15A11V
- **Wired Magazine**, October 2016. “How to Craft the Perfect Street for Trick-or-Treaters” by Aarian Marshall, www.wired.com/2016/10/craft-perfect-street-trick-treaters/
- **Transamerica: The New Age of Advice**, October 2016. “Does This Neighborhood Make Me Look Fat” by Catherine Tsai, <http://newageofadvice.com/insights/transamerica-insights/transamerica-insights-articles/looking-new-neighborhood-find-one-s-good-your-health/>
- **Streetsblog USA**, August 2016. “High-Traffic Arterial Roads Reduce Quality of Life, Even Blocks Away” by Angie Schmitt, <http://usa.streetsblog.org/2016/08/16/study-high-traffic-arterial-roads-reduce-quality-of-life-even-blocks-away/>
- **Streetsblog Denver**, June 2016. “Big Scoop for the Crack CBS 4 Team: Not All Bicyclists Follow All the Rules” by David Sachs, <http://denver.streetsblog.org/2016/06/03/big-scoop-for-the-crack-cbs-4-team-not-all-bicyclists-follow-all-the-rules/>
- **Wired Magazine**, April 2016. “Want a Bike-Friendly City? Get Ready to Fail Until It Works” by Aarian Marshall, www.wired.com/2016/04/how-to-make-bike-friendly-city
- **Chicago Tribune**, April 2016. “5 Myths about Bicycling” by Lydia Depillis, www.chicagotribune.com/news/opinion/commentary/ct-bicycling-traffic-laws-helmets-20160401-story.html
- **The Atlantic’s City Lab**, February 2016. “Some Bike Infrastructure Is Worse Than None at All: It’s time to put sharrows to rest” by Eric Jaffe, www.citylab.com/cityfixer/2016/02/sharrow-safety-bike-infrastructure-lane-chicago/460095/
- **Colorado Public Radio**, January 2016. “Bicycle 'Sharrows, A Denver Invention, Now Under Researchers' Scrutiny” by Nathan Heffel and Michael De Yoanna, ww.cpr.org/news/story/bicycle-sharrows-denver-invention-now-under-researchers-scrutiny

- **Cambridge UK News**, January 2016. “City Deal is of more than symbolic importance for cyclists” by Robin Heydon, www.cambridge-news.co.uk/City-Deal-symbolic-importance-cyclists/story-28582276-detail/story.html
- **Streetsblog USA**, January 2016. “Study: Sharrows Don’t Make Streets Safer for Cycling” by Angie Schmitt, <http://usa.streetsblog.org/2016/01/14/study-sharrows-dont-make-streets-safer-for-cycling/>
- **Momentum Magazine**, January 2016. “No Surprise: Study Finds Sharrows Don’t Make Streets Safer,” <https://momentummag.com/no-surprise-study-finds-sharrows-do-little-to-increase-safety/>
- **San Francisco Gate**, January 2016. “Dangerous by design: what one crash tells us about bad street planning” by Brian Coyne, <http://blog.sfgate.com/bicycle/2016/01/11/dangerous-by-design-what-one-crash-tells-us-about-bad-street-planning/>
- **Better Cities & Towns**, December 2015. “The new science of traffic engineering” by Rob Steuteville, <http://bettercities.net/news-opinion/blogs/robert-steuteville/21878/new-science-traffic-engineering>
- **The Wall Street Journal**, October 2015. “Do Bike Helmet Laws Do More Harm Than Good? Some cycling advocates argue that helmet regulations can create long-term health problems,” by Rachel Bachman, www.wsj.com/articles/do-bike-helmet-laws-do-more-harm-than-good-1444662837?mod=wsj_nview_latest
- **National Public Radio Boston**, October 2015. “Only a Game: 3 Stories You Should Know” on WBUR, <http://onlyagame.wbur.org/2015/10/24/nlcs-home-runs-helmets#comments>
- **Planetizen**, October 2015. “Why Do People Hate Cyclists?” by Jennifer Evans-Crowley, <http://www.planetizen.com/node/81826/why-do-people-hate-cyclists>
- **Better Cities & Towns**, October 2015. “FHWA prepares to knock down complete street barrier” by Rob Steuteville, <http://bettercities.net/news-opinion/blogs/robert-steuteville/21791/fhwa-prepares-knock-down-complete-street-barrier>
- **Streetsblog Denver**, August 2015. “How Will Car2Go’s Service Changes Affect Denver Traffic?” by David Sachs, <http://denver.streetsblog.org/2015/08/27/how-will-car2gos-service-changes-affect-denver-traffic/>
- **Philadelphia Magazine**, August 2015. “Survey: Bikers and Drivers Break the Law At Similar Rates” by Holly Otterbein, www.phillymag.com/news/2015/08/06/bikers-drivers-break-law/#jXpiUmiOTmecZq7u.99
- **San Francisco Gate**, August 2015. “The SFPD’s campaign against biking” by Brian Coyne, <http://blog.sfgate.com/bicycle/2015/08/06/the-sfpds-campaign-against-biking/>
- **National Public Radio Science Friday with Ira Flatow**, July 2015. “Why Do Cyclists Break the Rules?” www.sciencefriday.com/segment/07/03/2015/why-do-cyclists-break-the-rules.html
- **Public Ratio International**, July 2015. “Survey finds bicyclists and motorists ignore traffic laws at similar rates” by Robert Boos, www.pri.org/stories/2015-07-18/survey-finds-bicyclists-and-motorists-ignore-traffic-laws-similar-rates
- **Channel 3 News Madison**, Wisconsin, July 2015. “Survey looks at why drivers, bicyclists break traffic laws” by Dave Delozier, www.channel3000.com/news/survey-looks-at-why-drivers-bicyclists-break-traffic-laws/34065550
- **Minnesota Public Radio**, July 2015. “Survey: Cyclists no better — or worse — than drivers” by Bob Collins, <http://blogs.mprnews.org/newscut/2015/07/survey-cyclists-no-better-or-worse-than-drivers/>
- **KOAA Channel 5**, July 2015. “Survey suggests cyclists break some traffic laws to stay safe” by Andy Koen, www.koaa.com/story/29655080/survey-suggests-cyclists-break-some-traffic-laws-to-stay-safe

- **Channel 9 News Colorado**, July 2015. “CU Denver survey analyzes why cyclists 'scoff' at the law” www.9news.com/story/news/traffic/2015/07/27/cyclists-scoff-at-laws/30737683/
- **Channel 9 News Colorado**, June 2015. “Reducing Car Lanes to Widen Bike Lanes” http://us.vocuspr.com/ViewNewsOnDemand.aspx?Email=%5b%5bEmail%5d%5d&Date=6%2f11%2f2015+1%3a01%3a42+PM&ArticleID=1539443_30141_287666213
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Peer-
Review
Activity

- **Panel Reviewer**, National Science Foundation, 2014 & 2015.
- **Judge**, Denver Regional Council of Governments Way to Go Champion Awards, 2015 & 2016.
- **Peer Reviewer**, Utah University Press (1 book manuscript), 2014.
- **Guest Editor**, *Journal of Research in Transportation Business & Management* (2011 – 2013; 2016 – 2017)
- **Guest Editor**, *Journal of Urbanism* (2014 – 2016)
- **Associate Editor and Peer Reviewer**, *Journal of Transportation of the Institute of Transportation Engineers* (2015 – 3 reviews)
- **Peer Reviewer**, *Transportation Research Record* committees for: (a) Transportation Demand Management, (b) Travel Behavior and Values, (c) Bicycle Transportation, (f) Pedestrian Planning, (g) Transportation Issues in Major Cities, (h) Transportation Safety Management, (i) Social and Economic Factors of Transportation, (j) Safety Data, Analysis and Evaluation, (k) Task Force on Arterials and Public Health; (l) Environmental Justice in Transportation (2016 – 7 reviews; 2015 – 6 reviews; 2014 – 6 reviews; 2013 – 6 reviews; 2012 – 10 reviews; 2011 – 6 reviews; 2010 – 4 reviews; 2009 – 2 reviews; 2008 – 2 reviews; 2007 – 1 review; 2006 – 1 review)
- **Peer Reviewer**, *Accident Analysis and Prevention (AAP)*, (2016 – 1 review; 2015 – 4 reviews; 2014 – 1 review)
- **Peer Reviewer**, *Transportation Research Part A* (2017 – 1 review; 2015 – 1 review)
- **Peer Reviewer**, *ITE Journal* (2016 – 1 review)
- **Peer Reviewer**, *Sustainable Cities and Society* (2016 – 1 review)
- **Peer Reviewer**, *Cities: The International Journal of Urban Policy and Planning*, (2015 – 1 reviews)
- **Peer Reviewer**, *Journal of Planning Literature (JPL)*, (2014 – 1 review)
- **Peer Reviewer**, *Journal of Urbanism*, (2015 – 1 review; 2014 – 1 review)
- **Peer Reviewer**, *Urban Design International (UDI)*, (2013 – 1 review)
- **Peer Reviewer**, *Journal of Computers, Environment, and Urban Systems (CEUS)*, (2013 – 1 review; 2016 – 3 reviews)

- **Peer Reviewer**, *Journal of Transport and Land Use* (2016 – 2 reviews; 2015 – 1 review; 2014 – 5 reviews; 2010 – 2 reviews)
- **Peer Reviewer**, *International Journal of Sustainable Transportation* (2014 – 1 review; 2010 – 2 reviews)
- **Peer Reviewer**, *Journal of Urban Planning & Development* (2014 – 2 reviews)
- **Peer Reviewer**, *Journal of Landscape and Urban Planning* (2016 – 1 review; 2015 – 1 review)
- **Peer Reviewer**, *International Association for Travel Behaviour Research (IATBR)*, (2011 – 1 review)
- **Judge**, University of Colorado Denver Undergraduate Research Opportunity Program (UROP), (2012 – 2015)

**Outreach &
Professional
Service**

- **Director** of the Transportation Research Center at the University of Colorado Denver
- **Program Director** for the University of Colorado Denver: Mountain Plains Consortium (MPC) University Transportation Center (UTC)
- **Co-director** of the Active Communities /Transportation Research Group at the University of Colorado Denver
- **Research Coordinator and Member** of the National Research Council, Transportation Research Board Committee on *Transportation Issues in Major Cities (ABE30)* (April 2012 – 2018)
- **Member** of the National Research Council, Transportation Research Board Committee on *Transportation Demand Management (ABE50)* (April 2011 – 2018)
- **Research Coordinator and Leader** of the Research Reform Group, Congress for the New Urbanism (2012 – present)
- **Paper Review Coordinator**, Congress for the New Urbanism Conference (2013 – present)
- **Member** of the Project Transportation Reform Working Group, Congress for the New Urbanism
- **Faculty Advisor**, Institute of Transportation Engineers (ITE) University of Colorado Denver Student Chapter (2009 – present)
- **Co-Faculty Advisor**, Women's Transportation Seminar (WTS) University of Colorado Denver Student Chapter (2015 – present)
- **Award Committee Chair and Organizing Committee**, World Symposium on Transport and Land Use Research (WSTLUR) (2011)
- **International Scientific Committee**, World Society on Transport and Land Use Research (WSTLUR) (2010 – 2011)
- **President**, Institute of Transportation Engineers (ITE) University of Connecticut Student Chapter (2008 – 2009)
- University of Connecticut Climate Action Task Force Transportation Workgroup (2008 – 2009)
- Hole in the Walk Gang Camp and/or Habitat for Humanity Volunteer (1992, 1998, 2006)

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