

**– LISA AULTMAN-HALL, Ph.D.**  
Professor, Civil and Environmental Engineering  
University of Vermont

**Highlights Of Recent University of Vermont Service:**







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			Aultman-Hall	
9.	2000	12	<b>University of Kentucky Research Committee Grants,</b> “Modeling Traffic Route Choice Behavior” - Aultman-Hall	\$5K
8.	1999	16	<b>Presnell Associates,</b> “Commercial Vehicle Monitoring” - Aultman-Hall (70%) and Crabtree	\$55K
7.	1999	24	<b>Kentucky Transportation Cabinet,</b> “Traffic Growth Rates”– Pigman, Allen and Aultman-Hall (50%)	\$135K
6.	1998	18	<b>FHWA, Kentucky Transportation Cabinet and Ohio DOT,</b> “Evaluation of the ARTIMIS Telephone Traveler Information Syst (a) 0 m”	

**Masters Student Supervision**

**Student**

Sarah Howerter  
Hannah Ullman

**Graduation**

Expected 2019  
Summer 2017

**Research Topic**

Long Distance Travel  
Long Distance Travel

## Peer-Reviewed Journal Publications

An \* indicates a student working under my supervision while \*\* indicates other students. ^ indicates my Ph.D. advisors.

60. Dowds, Jonathan, Karen Sentoff, James L. Sullivan and Lisa Aultman-Hall. (2017) Assessing the Impact of Network Resolution and Origin-Destination Aggregation on the Stability of Transportation Network Criticality Rankings. *Transportation Research Record* 2653. DOI 10.3141/2653-11
59. Aultman-Hall, Lisa, Chester Harvey, James Sullivan and Jeffrey LaMondia. (2016) The Impact Of Long-Distance Tour Generation And Travel Attributes On Data Collection In The United States. *TRANSPORTATION*, Volume 43 Number 6, December. DOI 10.1007/s11116-016-9754-y
58. LaMondia, J.J., Michael Moore\*\* and Lisa Aultman-Hall. (2016) Matching Household Lifecycle Characteristics To Clustered Annual Schedules Of Long-Distance And Overnight Travel. *Transportation Research Record*. Volume 2594 pp. 11-17. DOI: <http://dx.doi.org/10.3141/2594-02>
57. Belz\*, Nathan, Lisa Aultman-Hall and James Montague\*\*. Influence of Priority Taking and Abstaining at Single-Lane Roundabouts using Cellular Automata. *Transportation Research Part C* (2016), 69 pp. 134-149. DOI:10.1016/j.trc.2016.05.021
56. Harvey\*, Chester, Lisa Aultman-Hall, Austin Troy and Stephanie Hurley. (2016) Streetscape Skeleton Measurement and Classification. *Environment and Planning B: Planning and Design*. doi: 10.1177/0265813515624688
55. Belz\*, Nathan, Lisa Aultman-Hall and Austin Troy. (2016) Roundabouts in Northern New England, 1990–2010. *Transportation Research Record* 2585. DOI 10.3141/2585-01
54. Aultman-Hall, Lisa. Chester Harvey, Jeff LaMondia and Chloe Ritter. (2015) Design and Response Quality in a One-Year Longitudinal Survey of Overnight and Long-distance Travel. *Transportation Research Procedia*. Volume 11, pp. 136-153. [doi:10.1016/j.trpro.2015.12.012](https://doi.org/10.1016/j.trpro.2015.12.012)
53. Sullivan, James,



46. Harvey\*, Chester and Lisa Aultman-Hall. (2015) Urban Streetscape Design and Crash Severity. *Transportation Research Record* 2500 pp 1-8. DOI: 10.3141/2500-01
45. Sentoff, Karen, Lisa Aultman-Hall and Britt Holmén, (2015) Implications of Driving Style and Road Grade for Accurate Vehicle Activity Data and Emissions Estimates. *Transportation Research Part D*. 1036:175-188, 10.1016/j.trd.2014.11.021
44. Harootunian, Kristine\*\*, Brian H. Y. Lee and Lisa Aultman-Hall, (2014) Odds of Fault for Out-of-state Drivers in Crashes in Four States in the USA,

31. Sullivan, James L.,\* David C. Novak, Lisa Aultman-Hall and Darren Scott. (2010). Identifying Critical Road Segments and Measuring System-Wide Robustness in Transportation Networks with Isolating Links: A Link-Based Capacity-Reduction Approach.

14. Aultman-Hall, Lisa, Bradford Johnson\*\* and Brian Aldridge\* “Statewide Commodity Flow Data and Assessing the Potential for Modal Substitution” *Trans Research Record* #1719, pages 10-16, 2000.
13. Aultman-Hall, Lisa, Sarah Bowling\* and Jill Asher\* “ARTIMIS Telephone Traveler Information Service: Current Use Patterns and User Satisfaction” *Transportation Research Record* #1739, pages 9-14, 2000.
12. Doherty, Sean T., Lisa Aultman-Hall and Jill Swaynos\*\*. “Commuter Cyclist Accident Patterns in Toronto and Ottawa, Canada” *Journal of Transportation Engineering* Volume 126, No. 1, pages 21-26, January/February 2000.
11. Aultman-Hall, Lisa and K. Georgina Kaltenecker\*\*. “Toronto Bicycle Commuter Safety Rates,” *Accident Analysis and Prevention*, Volume 31, pages 675-686, 1999.
10. Aultman-Hall, Lisa, Michael L. Hill\* and Ken Agent. “A Methodology for Evaluating Large Truck Access to Intermodal and Other Facilities” *Trans Research Record* 1653, pages 61-68, 1999.
9. Aldridge, Brian\*, Meredith Himmler\*\*, Lisa Aultman-Hall, and Nikiforos Stamatiadis. “The Impact of Passengers on Young Driver Safety” *Transportation Research Record* 1693, pages 25-30, 1999.
8. Stamatiadis, Nikiforos, Samantha Jones\*\* and Lisa Aultman-Hall. “Causal Factors for Accidents on Southeast Low-volume Roads” *Transportation Research Record* 1652, pages 111-117, 1999.
7. Aultman-Hall, Lisa and Fred L. Hall<sup>1</sup>. “Research Design Insights from a Survey of Urban Bicycle Commuters” *Transportation Research Record* 1636, pages 21-28, 1998.
6. Aultman-Hall, Lisa and Michael F. Adams\*. “Sidewalk Bicycling Safety Issues” *Transportation Research Record* 1636, pages 71-76, 1998.
5. Aultman-Hall, Lisa and Fred L. Hall<sup>1</sup>. “Ottawa-Carleton On- and Off-road Cyclist Accident Rates” *Accident Analysis and Prevention*, Volume 30, No. 1, pages 29-44, 1998.
4. Aultman-Hall, Lisa, Matthew Roorda and Brian W. Baetz<sup>1</sup>. “Using GIS for Evaluation of Neighborhood Pedestrian Accessibility” *J*

## Conference Proceedings (Full Papers Reviewed)

*Papers presented at conferences that are also in published journal articles are not repeated here.*

- A24. Aultman-Hall, Lisa and Jonathan Dowds. (2018). Who are we Missing when we Take Travel Survey Online – Assessments from Vermont. 97th Annual Transportation Research Board Meeting Conference, January, Washington, D.C.
- A23. Ullman\*, Hannah, and Lisa Aultman-Hall (2018). Exploring Vermonter's Self-reported Unmet Long-distance Travel Need. 97th Annual Transportation Research Board Meeting Conference, January, Washington, D.C.
- A22. Harvey, Chester and Lisa Aultman-Hall. (2017). Assessing The Representativeness Of A Convenience Sample For Surveying Long-Distance Travel. 96th Annual Transportation Research Board Meeting Conference, January, Washington, D.C.
- A21. Aultman-Hall, Lisa and Jonathan Dowds. (2016) Role and Position of Local Agencies in Climate Adaptation Planning. 95th Trans Research Board Annual Meeting, January, Washington, D.C.
- A20. Ursaki\*\*, Julia and Lisa Aultman-Hall. (2016). Quantifying the Equity of Bikeshare Access in U.S. Cities. 95th Annual Trans. Research Board Meeting Conference, January, Washington, D.C.
- A19. Belz\*, Nathan P., Lisa Aultman-Hall, Austin Troy. (2014) Factors Affecting Implementation of Roundabouts in Northern New England. World Symposium on Transport and Land Use Research, June 24-27, 2014, Delft, the Netherlands.
- A18. Sullivan, J., D. Novak and L. Aultman-Hall. (2013) Transportation Network Resolution: Exploring How Much Of The Road Network Is Needed For Analysis. 92th Annual Transportation Research Board Meeting Conference, January, Washington, D.C.
- A17. Sullivan, James, Aultman-Hall, Lisa, and Nathan Belz\*. (2011). Spatial Evaluation of a Statewide Rural Transit Network Spanning Multiple Service Areas. 90th Annual Transportation Research Board Meeting Conference, January, Washington, D.C.
- A16. Zhang, Chen, Lance Jennings\*\*, Lisa Aultman-Hall and Darryl Benoit. (2010). Toward More Robust Spatial Sampling Strategies for Nonmotorized Traffic. 89th Annual Transportation Research Board Meeting Conference, January, Washington, D.C.
- A15. Belz, Nathan\*, Lisa Aultman-Hall and Gopal Patil. (2010). Spatial Models for the Statewide Evaluation of Transit-Supportive Zones. 89th Annual Transportation Research Board Meeting Conference, January, Washington, D.C.
- A14. Aultman-Hall, Lisa, Karen Glitman and Jennifer Kenyan\*\*. (2010). Rethinking Transportation Systems for Rural Areas: Role of the Federal Government, Funding Formulas, and Strategic Disinvestment, 89th Annual Transportation Research Board Meeting Conference, January,

A10. Sullivan, James, Lisa Aultman-Hall, David Novak an

- B8. Aultman-Hall, Lisa “A Summary of the Safety Related Results of a Canadian Bicycle Commuter Survey” *Traffic Safety on Two Continents*, Malmo, Sweden, September 1999.
- B7. Schulte, Sarah\* and Lisa Aultman-Hall. “Using Geographic Information Systems to Evaluate the Influence of County Level Alcohol Prohibition on the Distance from Home in Alcohol-related

10. Sustainable Transport in Europe and Links and Liaisons with America, January 15-16, 2004, Washington, DC. “Continental Freight Planning Models: An EU/US Comparative Perspective” by Lóri Tavasszy (The Netherlands), Lisa Aultman-Hall (United States), Arnaud Burgess (The Netherlands), José Holguin Veras (United States).
9. American Association of State and Highway Officials Non-motorized Task Force Meeting, “Refining the Role of Non-motorized Transportation for Context Sensitive Design”, Burlington VT, Sept 2003.

10. "Refining the Role of Non-motorized Transportation for Context Sensitive Design" American Society of Civil Engineers Annual Conference and Exposition, Washington, D.C., November 3-7, 2002.
9. "Where and When do Commuter Cyclists Use Paths Versus Roads" Pro-Bike Pro-Walk 2000, Philadelphia, Sept 2000.
8. "The Influence of County-level Prohibition on Alcohol-related Crashes" Institute for Transportation Engineers Southern District Meeting, Montgomery AL, April 1999
7. "Examples of GIS Applications in Transportation Engineering" Kentucky GIS Conference, May 17-20, 1998, Somerset, KY.
6. "The Time Has Come to Base Traffic Assignment on Actual Route Data" Institute for Transportation Engineers Southern District Meeting, Memphis, TN, April 1998.
5. "Embarking on Bicycle Demand Analysis" Institute for Transportation Engineers Southern District Meeting, Memphis, TN, April 1998.
4. "Demonstration of GIS Applications in Transportation" Kentucky TransForum '97, September 20, 1997.
3. "Ottawa-Carleton On- and Off-road Commuter Cyclist Accident Rates," ITE District 5 Meeting, Louisville, KY, April 1997.
2. "Using Geographic Information Systems (GIS) for Bicycle Transportation Engineer 1 (yc9b(e) 1 (l)/TT (l) 1 45 0 0Tn



15. "Variability in On-Board Measurements of Light-Duty Vehicle Particle Number Emissions: Driver and Road Type" poster presented by Yingge Qu, American Association of Aerosol Researchers, Austin Texas, October 2005.
14. "Existing Challenges for use of Passive GPS Devices for Routine Travel Data Collection" presented by Jianhe Du, 2005 Mid-Continent Transportation Research Symposium, Iowa State University, August, 2005.
13. "Investigating Route Choice and Driving Behavior Using GPS-Collected Data", presented by Ms Jianhe Du, TRB 2005 Doctoral Student Dissertation Seminar (winner of best presentation award) Transportation Research Board Annual Meeting, Washington, D.C. January 2005.
12. "Continental Freight Planning Models: an EU/US Comparative Perspective"

25. Modeling Long-distance Travel in an “Age of Global Mobility”, Podwal Lecture, City College of New York, March 7, 2017.
24. Integrating Climate Adaptation Efforts Across State, Regional, and Local Transportation Agencies, with Jonathan Dowds, National Center for Sustainable Transportation, University of California Davis, April 9, 2015. [https://www.youtube.com/watch?v=J5AArgA\\_7JY](https://www.youtube.com/watch?v=J5AArgA_7JY)
23. Moving Towards Better Measurement and Modeling of Long Distance Travel. University of California Davis, April 10, 2015. <http://mediasite.ucdavis.edu/Mediasite/Play/d8909c739f3b477993c18f4d71caf6691d>
22. Vermont Legislative Policy Research Summit on Climate Change. November 18, 2014. “Barriers to Implementation of Climate Adaptation Frameworks by State DOTs”
21. Doing Business with Friends-Canada and Vermont, hosted by the Consulate General of Canada, “Travel Demand Models: What are they and who uses them?”, November 17, 2014.
20. Long Distance and Intercity Travel: Who what where when? Georgia Institute of Technology, November 6, 2014. <https://www.youtube.com/watch?v=d5GVb1nN7Z8>
19. Transportation and Livability – What’s that really mean for Rural Transportation Systems, *Straight from the Source*, US DOT Volpe National Transportation Lab – seminar and webinar, February 28, 2014. <https://www.youtube.com/watch?v=YAB479ccVM4&feature=youtu.be>
18. Lessons Learned from the Transportation Buzzword “Livability”, Portland State Univ, May 3, 2013.
17. “Livability & Transportation What’s next and why Rural America matters” University of California, Berkeley, February 15, 2013
16. “Flash in the Pan: Transportation and the 2010 Buzz Word “Livability” UC Davis Institute of

81. Dowds, Jon. Aultman-Hall, Lisa. Sentoff, Karen. Sullivan, James. (2014). Passenger Vehicle Idling in Vermont: Year 2 Final Report. UVM TRC Report # 13-008 (37 pages).

80. Jackson, Eric, Lisa Aultman-Hall and Britt Holmén. (2014). Vehicle, Driver and Atmospheric Factors in Light-Duty Vehicle Particle Number Emissions. UVM TRC Report # 14-006 (3

- President and President-elect UVM Faculty Senate (2014-2016)
- Ad Hoc Graduate Aid and Tuition on Grants Committee

## Summary of Teaching

### University of Vermont (5-point scale)

Course (Descriptions Below)	Level	Semesters Taught	%	Average Rating	
				Aultman-Hall	Dept
CE133 Intro to Trans Eng'g	Junior	F2017	100%	4.2	4.0
CE295B Trans Safety and Design	Senior/Grad	S 2016	100%	4.7	3.8
CE003 Introduction to Civil and Environmental Engineering	First year	F 2014	100%	3.5	3.8
		F 2013	100%	3.4	3.7
		F 2011	100%	2.7	3.7
TRC314 Travel, Safety and Human Factors	Graduate	S 2014	100%	3.6	3.9
		S 2012	100%	Interviews – no evals	