curriculum vitae

## Christopher Michael Monsere, Ph.D., P.E.

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### EDUCATION

Ph.D. 2001	Civil Engineering,	Iowa State	University,	Concentration:	Transportation

- M.S. 1997 Civil Engineering, Iowa State University, Concentration: Transportation
- B.C.E. 1995 Civil Engineering, University of Detroit Mercy, summa cum laude

#### **ADMINISTRATIVE APPOINTMENTS**

2023-present Interim Vice Provost for Faculty Success. Portland State University. Portland, Oregon Associate Dean for Academic Affairs, Maseeh College of Engineering and Computer 2021-present Science. Portland State University. Portland, Oregon 2015-2021 Chair, Civil and Environmental Engineering. Portland State University. Portland, Oregon Acting Chair, Civil and Environmental Engineering. Portland State University. 2014-2015 Portland, Oregon 2013-2014 Associate Chair, Civil and Environmental Engineering. Portland State University. Portland, Oregon EMPLOYMENT 2018- present Professor, Civil and Environmental Engineering. Portland State University. Portland, Oregon Associate Professor, Civil and Environmental Engineering. Portland State University. 2012-2018 Portland, Oregon Assistant Professor, Civil and Environmental Engineering. Portland State University. 2006-2012 Portland, Oregon Research Assistant Professor, Civil and Environmental Engineering. Portland State 2004-2006 University. Portland, Oregon 2003-2003 Adjunct Instructor, Civil and Environmental Engineering, Portland State University. Portland, Oregon 2000-2004 Highway Safety Engineer, Oregon Department of Transportation. Salem, Oregon Dwight D. Eisenhower Research Fellow, Iowa State University. Ames, Iowa 1996-2000 1995-2000 Research Assistant, Iowa State University. Ames, Iowa 1994-1995 Assistant Project Manager, Angelo Iafrate Construction Company. Warren, Michigan 1993-1994 Assistant Estimator, Albert Kahn Associates, Inc. Detroit, Michigan 1991-1993 Engineering Assistant, Hubbell, Roth and Clark. Bloomfield Hills, Michigan

#### **PROFESSIONAL REGISTRATION**

Registered Professional Engineer, Oregon License 74673PE

#### DISSERTATION

"A GIS-based multi-commodity freight model: Typology, model refinement and field validation", Iowa State University, Ames, Iowa. August 2001. Advisors: R. Souleyrette and T.H. Maze. Committee: M. Crum, E. Kannell, and K. Knapp

#### **REFEREED PUBLICATIONS**

#### Articles Under Review

1. None at this time

### **Articles Under Preparation**

1. None at this time

### **Refereed Journal Articles**

- Chai, E, Hurwitz, D., Kothuri, S., Monsere, C., Jashami, H. Influence of Curb Return and Crosswalk Setback on Turning Driver Decision Making and Speed Selection. *Journal of Transportation Engineering Part A*. 2024, 150(4): 04024004. doi/10.1061/JTEPBS.TEENG-8093
- 47. McNeil, N., Dill, J. **Monsere, C.,** (2023) Evaluation of Red Colored Pavement Markings for Transit Lane Designation, *Transportation Research Record,* doi.org/10.1177/036119812311943.
- Cobb, D. Kothuri, S. Monsere, C., Hurwitz, D. Jashami, H. (2023). Driver and Bicyclist Comprehension of Blue Light Detection Feedback Systems, *Transportation Research Record*, 2677(6), 395–408. doi.org/10.1177/03611981221148481.
- Cobb, D. P., Monsere, C., Hurwitz, D. S., Kothuri, S., & Jashami, H. (2023). User Comprehension of Bicycle Signal Countdown Timers. Transportation Research Record, 2677(6), 129–141. https://doi.org/10.1177/03611981221144299.
- 44. Anderson, J. Kothuri, S. **Monsere, C.**, Hurwitz, D. (2022) Systemic Opportunities to Improve Older Pedestrian Safety: Findings of Crash Data Analyses and a Targeted Workshop, *Transportation Research Record*, May 2022. doi:10.1177/03611981221089312
- 43. Anderson, J. Kothuri, S. Monsere, C., (2022) Findings from 20 mph a Neighborhood Speed Reductions, *Transport Findings*. January 2022. doi.org/10.32866/001c.31956
- 42. Kothuri, S. <u>Appiah, F.</u>, **Monsere, C.**, (2021) Driver Yielding and Pedestrian Performance at Midblock Crossings on Three-lane Roadways with Rectangular Rapid Flashing Beacons, *Transportation Research Record*. April 2021. doi:10.1177/03611981211004962
- 41. Horne, D., Jashami, H., **Monsere, C.**, Kothuri, S. Hurwitz, D. (2020) "Evaluating the In-Vehicle Alerts During Incursions on Sinusoidal Rumble Strips". *Transportation Research Record: Journal of the Transportation Research Board*, October 2020. DOI: 10.1177/0361198120967947
- 40. Monsere. C, Hurwitz, D., Fink, C., Kothuri, S.., Cobb, D. (2020)"Bicycle Signals in the United States: An Inventory, Typical Use Cases, and Research Gaps" ITE Journal, July 2020
  \* Paper received the Wayne T. and Patricia Van Wagoner Award for Best Paper in the ITE Journal by Western ITE Member (D. Hurwitz).
- Monsere, C., McNeil, N., Sanders, R. (2020) "User-Rated Comfort and Preference of Separated Bike Lane Intersection Designs", *Transportation Research Record: Journal of the Transportation Research Board*, June 2020. DOI: 10.1177/0361198120927694.
- Kothuri, S., Monsere, C., Hurwitz, D., Jashami, H. (2020) "An Online Survey of Driver Comprehension of the Flashing Yellow Arrow for Right-Turn Signal Indications" *Journal of Transportation Engineering*, 2020. DOI: 10.1061/JTEPBS.0000376.

\* Results of research have been incorporated in ODOT's Traffic Signal Design Handbook

- Jannat, M., Tapiro, H., Monsere, C., Hurwitz, D. (2020) "Right-Hook Crash Scenario: Effects of Environmental Factors on Driver's Visual Attention and Crash Risk" *Journal of Transportation Engineering: Part A Systems*, February 2020 DOI: 10.1061/JTEPBS.0000342.
- Horne, D., Jashami, H., Hurwitz, D., Monsere, C., Kothuri, S. (2019) "Mitigating Roadside Noise Pollution: A Comparison between Rounded and Sinusoidal Milled Rumble Strips" *Transportation Research Part D: Transport and Environment*, Volume 77, 2019, pp. 37-49, ISSN 1361-9209, DOI:10.1016/j.trd.2019.10.006.
- 35. Jashami, H., Hurwitz, D., **Monsere, C.,** Kothuri, S. (2019) "Do drivers correctly interpret the solid circular green from an exclusive right-turn bay?" *Advances In Transportation Studies, an International Journal*, August 2019.
- Jashami., H\*., Hurwitz, D. Monsere, C., Kothuri, S. (2019) "Evaluation of Driver Comprehension and Visual Attention of the Flashing Yellow Arrow Display for Permissive Right-Turns" *Transportation Research Record: Journal of the Transportation Research Board*, Transportation Research Board of the National Academies, Washington, D.C., 2019. doi.org/10.1177/0361198119843093.

\*Paper received Best Young Author Award 2019 for TRB AHB50 Traffic Control Devices Committee \*Results of research have been incorporated in ODOT's Traffic Signal Design Handbook

- Jannat, M., Hurwitz, D., Monsere, C. Funk, K. (2018) "The Role of Driver's Situational Awareness on Right-Hook Bicycle-Motor Vehicle Crashes". *Safety Science*, Volume 110, Part A, 2018, pp 92-101, DOI: 10.1016/j.ssci.2018.07.025.
- <u>Wang. Y</u>, Monsere, C. Chen, C. Wang, H. (2018) "Development of a Crash Risk Scoring Tool for Pedestrian and Bicycle Projects in Oregon" *Transportation Research Record: Journal of the Transportation Research Board, No. 2672, Issue 32,* pp 30-39 Washington, D.C., 2018. DOI: 10.1177/0361198118794285.
- Warner, J, Hurwitz, D., Monsere, C., Fleskes, K. (2017) "A Simulator-Based Analysis of Engineering Treatments for Right-Hook Bicycle Crashes at Signalized Intersections" Accident Analysis & Prevention, 2017 https://doi.org/10.1016/j.aap.2017.04.021
- Himes, S. Peach, K., Eccles, K. Monsere, C., Gates, T. (2016) "Estimating the Safety Effects of Intersection Sight Distance at Unsignalized Intersections" *Transportation Research Record: Journal of the Transportation Research Board, No. 2588*, Washington, D.C., 2016. DOI:10.3141/2588-08.
- 29. Blanc, B., Johnson, P., Figliozzi, M., Monsere, C., Nordback, K. (2015) "Leveraging Signal Infrastructure for Non-Motorized Counts in a Statewide Program: A Pilot Study" *Transportation Research Record: Journal of the Transportation Research Board, No. 2527, Transportation Research Board* of the National Academies, Washington, D.C., 2015. pp 99-77. DOI 10.3141/2527-08
- Foster, N., Monsere, C., Dill, J., Clifton, K. (2015) "A Level-of-Service Model for Protected Bike Lanes" *Transportation Research Record: Journal of the Transportation Research Board, No. 2520,* Transportation Research Board of the National Academies, Washington, D.C., 2015. pp 90–99. DOI:10.3141/2520-11

\* Results of research have been incorporated in ODOT's Transportation Planning and Analysis Unit (TPAU) Analysis and Procedures Manual Level of Service Guidance.

- McNeil, N.M., Monsere, C., Dill, J. (2015) "The Influence of Bike Lane Buffer Types on Perceived Comfort and Safety of Bicyclists and Potential Bicyclists" *Transportation Research Record: Journal of the Transportation Research Board, No. 2520,* Transportation Research Board of the National Academies, Washington, D.C., 2015. pp. 132-142 DOI 10.3141/2520-15.
- 26. Monsere, C., <u>Foster, N.</u>, Dill, J., McNeil, N.M. (2015) "User Behaviors and Perceptions at Intersections with Mixing and Turning Zones on Protected Bike Lanes" *Transportation Research*

Record: Journal of the Transportation Research Board, No. 2520, Transportation Research Board of the National Academies, Washington, D.C., 2015. pp. 112-122. DOI 10.3141/2520-13

- Foster, N. Monsere, C. Carlos, K. (2014) "Evaluating Driver and Pedestrian Behaviors at Enhanced Multilane Midblock Pedestrian Crossings: Case Study in Portland, Oregon" *Transportation Research Record: Journal of the Transportation Research Board, No. 2464,* Transportation Research Board of the National Academies, Washington, D.C., 2014. pp 59-66.
- Hurwitz, D., Marnell, P. Monsere, C. Paulsen. K. (2014) "Three- or Four-Section Displays for Permissive Left-Turns?" *Transportation Research Record: Journal of the Transportation Research Board, No.* 2463, Transportation Research Board of the National Academies, Washington, D.C., 2014. pp 1-9. DOI 10.3141/2463-01
- Figliozzi, M., Johnson, P, Monsere, C., Nord back, K. (2014) "A Methodology to Characterize Ideal Short-term Counting Conditions and Improve AADT Estimation Accuracy Using a Regression-based Correcting Function" *Journal of Transportation Engineering, American Society of Civil Engineers*, Vol 140 (5), May 2014, DOI 10.1061/(ASCE)TE.1943-5436.0000663, 04014014.
- 22. Parks, J. Tanaka, A., Ryus, P., Monsere, C., McNeil, N., Goodno, M. (2013) "Evaluating Bicycle Infrastructure: Assessment of Three Alternative Quality-of-Service Metrics" *Transportation Research Record: Journal of the Transportation Research Board, No. 2387,* Transportation Research Board of the National Academies, Washington, D.C., 2013. pp 139-148.
- Figliozzi, M., Wheeler, N., Monsere, C. (2013) "Methodology to Estimate Bicyclists' Acceleration and Speed Design Values to Calculate Minimum Green Times at Signalized Intersections" *Transportation Research Record: Journal of the Transportation Research Board, No. 2387,* Transportation Research Board of the National Academies, Washington, D.C., 2013. pp 66-75.
- <u>Thompson, S.</u>, Monsere, C. Figliozzi, M., Koonce, P. Obery, G. (2013) "Bicycle-Specific Traffic Signals: Results from State-of-the-Practice Review" *Transportation Research Record: Journal of the Transportation Research Board, No. 2387,* Transportation Research Board of the National Academies, Washington, D.C., 2013. pp 1-9.
- <u>Gladhill, K.</u>, Monsere, C., (2012) "Exploring Traffic Safety and Urban Form in Portland, Oregon". *Transportation Research Record: Journal of the Transportation Research Board, No. 2318,* Transportation Research Board of the National Academies, Washington, D.C., 2012. pp 63-74.
- Moore, A, Figliozzi, M., Monsere, C. (2012) "Bus Stop Air Quality: An Empirical Analysis of Exposure to Particulate Matter at Bus Stop Shelters" *Transportation Research Record: Journal of the Transportation Research Board, No. 2270,* Transportation Research Board of the National Academies, Washington, D.C., 2012. pp-76-86.
- Monsere, C., N. McNeil, J. Dill. (2012) "Multi-User Perspectives on Separated, On-Street Bicycle Infrastructure" *Transportation Research Record: Journal of the Transportation Research Board, No. 2314*, Transportation Research Board of the National Academies, Washington, D.C., 2012, pp. 22–30.
- Xie, F., <u>Gladhill, K.</u>, Dixon, K. K., **Monsere, C**. (2011) "Calibrating the Highway Safety Manual Predictive Models for Oregon State Highways" *Transportation Research Record: Journal of the Transportation Research Board, No. 2241,* Transportation Research Board of the National Academies, Washington, D.C., 2011. pp 19-28.
- Kendrick, C. Moore, A. Haire, A., Bigazzi, A., Figliozzi, M., Monsere, C., George, L. (2011) "Impact of Bicycle Lane Characteristics on Bicyclists' Exposure to Traffic-Related Particulate Matter" *Transportation Research Record: Journal of the Transportation Research Board, No. 2247,* Transportation Research Board of the National Academies, Washington, D.C., 2011. pp 24-32.
- Cetin, M., Monsere, C., Nichols, A., Ustun, I. (2011) "Key Factors Affecting Accuracy of Reidentification of Trucks over Long Distances Based on Axle Measurement Data, *Transportation Research Record: Journal of the Transportation Research Board, No. 2243,* Transportation Research Board of the National Academies, Washington, D.C., 2011.pp 1-8.

- Warden, C., Duh, J., Lafrenz, M., Chang, H. Monsere, C. (2011) "Geographical Analysis of Commercial Motor Vehicle Hazardous Materials Crashes on the Oregon State". International Journal of Health Geographics. Volume 10 Issue 2, 171, June 2011. doi:10.1080/17477891.2011.578207
- 12. Dill, J. **Monsere. C.**, N. McNeil. (2010) "Evaluation of Bike Boxes at Signalized Intersections. Accident Analysis and Prevention, Special Issue from International Conference on Safety and Mobility of Vulnerable Road Users: Pedestrians, Motorcyclists and Bicyclists. *Accident Analysis and Prevention.* doi:10.1016/j.aap.2010.10.030 |
- 11. Zheng, Z., Ahn, S. and **Monsere, C.** (2009) "Impact of Traffic Oscillations on Freeway Crash Occurrences", Accident *Analysis Prevention*. 10.1016/j.aap.2009.10.009
- Cetin, M., Monsere, C., Nichols, A. "Bayesian Models for Re-identification of Trucks over Long Distances Based on Axle Measurement Data". *Journal of Intelligent Transportation Systems*. Volume 15, Number 1, January 2011, pp. 1-12(12).
- Berkow, M., Monsere, C., Koonce, P., Bertini, R.L., and Wolfe, M. (2009) "Prototype for Data Fusion Using Stationary and Mobile Data Sources for Improved Arterial Performance Measurement" *Transportation Research Record: Journal of the Transportation Research Board, No. 2099,* Transportation Research Board of the National Academies, Washington, D.C., 2009, pp. 102-112.
- 8. Monsere, C., Fischer, E.L., (2008) Safety effects of reducing freeway illumination for energy conservation. *Accident Analysis Prevention*., doi:10.1016/j.aap.2008.06.018
- Monsere, C., <u>P. Bosa.</u>, R.L. Bertini. (2008) "Combining Climate, Crash, and Highway Data for Improved Ranking of Speed and Winter-Weather Related Crash Locations in Oregon." *Journal of Transportation Engineering, American Society of Civil Engineers*, Vol 134 (7), 2008, pp 287-296
- Monsere, C., A. Breakstone, Bertini, R.L., D. Bish. (2007) "Developing an Online Tool for Delivering Research Results: An Update to the Oregon Department of Transportation's Crash Reduction Factor Database." *Transportation Research Record: Journal of the Transportation Research Board, No. 2009,* Transportation Research Board of the National Academies, Washington, D.C., 2007, pp. 113-120.
- Monsere, C., A. Breakstone, Bertini, R.L., D. Deeter, G. McGill. (2006) "Validating Dynamic Message Sign Freeway Travel Time Messages Using Ground Truth Geospatial Data." *Transportation Research Record: Journal of the Transportation Research Board No. 1959*, Transportation Research Board of the National Academies, Washington, D.C., 2006, pp. 19-27.
- <u>Grile, C.</u>, Monsere, C., Hunter Zaworski, K. (2005) "Programming Safety Improvements on Pavement Resurfacing, Restoration, and Rehabilitation Projects." *Transportation Research Record: Journal of the Transportation Research Board No. 1922*, Transportation Research Board of the National Academies, Washington, D.C., 2005, pp. 73-78.
- Monsere, C., Nolan, C., Bertini, R.L., Anderson, A. and El-Seoud, T. (2005) "Measuring the Impacts of Speed Reduction Technologies: A Dynamic Advanced Curve Warning System Evaluation." *Transportation Research Record: Journal of the Transportation Research Board No. 1918*, Transportation Research Board of the National Academies, Washington, D.C., 2005. pp. 98-107.
- Bertini, R.L., Monsere, C., Byrd, A., Rose, M. and El-Seoud, T. (2005) "Using Custom Transportation Data Collection Software with Handheld Computers for Education, Research, and Practice." *Transportation Research Record: Journal of the Transportation Research Board No. 1924*, Washington, D.C., 2005, pp. 37-45.
- Maze, T.H., Monsere, C., M. Hancock, D. Plazak, B. McCall. (1998) "Electronic Screening in the I-35 Corridor". In *Transportation Quarterly, Volume 52, Number 1*. Eno Transportation Foundation, Landsdowne, Virginia. Winter 1998.

#### **REVIEWED PUBLICATIONS**

#### **Reviewed Proceedings (by full paper)**

- Russo, B. Lemcke, D. James, E., Smaglik, E. Wang, Y, Monsere, C., "An Exploratory Parameter Sensitivity Analysis of Bicycle-Vehicle Conflicts Using the Surrogate Safety Assessment Model", Submitted to Transportation Research Record: Journal of the Transportation Research Board, August 2019 Paper 20-05024
- 27. Monsere, C., Kothuri, S., Figliozzi, M., <u>Razmpa, A</u>. "An Analysis of the Safety Effectiveness of Pedestrian Crossing Enhancements in Oregon". Paper 18-0737. Proceedings of the 98th Annual Meeting of the Transportation Research Board, Washington, D.C., 2018.
- Dill, J., McNeil, N.M., Monsere, C. "A Comparison of Survey Methods for Bicycle Research" Paper 16-6268. Proceedings of the 96th Annual Meeting of the Transportation Research Board, Washington, D.C., 2016.
- 25. Dixon, K., Avelar, R., **Monsere, C.** "Oregon Signalized Intersection Safety Performance Functions and the Effect of Speed" *Paper 16-5889*. *Proceedings of the 96th Annual Meeting of the Transportation Research Board*, Washington, D.C., 2016.
- 24. Goddard, T., Dill, J., **Monsere, C.** "Driver Attitudes about Bicyclists: Negative Evaluations of Rule-Following and Predictability" *Paper 16-2573. Proceedings of the 96th Annual Meeting of the Transportation Research Board*, Washington, D.C., 2016.
- 23. <u>Kothuri, S.</u>, Koonce, P., **Monsere, C.**, Reynolds, T. "Exploring Thresholds for Timing Strategies on a Pedestrian Active Corridor" *Paper 15-3025*. *Proceedings of the 94th Annual Meeting of the Transportation Research Board*, Washington, D.C., 2015
- 22. <u>Bussey, S.</u>, **Monsere, C.**, Koonce, P. "Does the Bicycle Detector Symbol Change Cyclist Queuing Position at Signalized Intersections?" *Paper 15-2501. Proceedings of the 94th Annual Meeting of the Transportation Research Board*, Washington, D.C., 2015
- 21. Dill, J., Goddard, T., Monsere, C., McNeil, N.M. "Can Protected Bike Lanes Help Close the Gender Gap in Cycling? Lessons from Five Cities" *Paper 15-3481. Proceedings of the 94th Annual Meeting of the Transportation Research Board*, Washington, D.C., 2015.
- 20. Kothuri, S. Clifton, K. Monsere, C. "Insights into Pedestrian Attitudes and Perceptions of Delay, Safety, and Crossing Decisions at Signalized Intersections" *Paper 14-4229. Proceedings of the 93th Annual Meeting of the Transportation Research Board*, Washington, D.C., 2014.
- Marnell, P., Tuss, H., Hurwitz, D., <u>Paulsen, K</u>., Monsere, C. "Permissive Left-Turn Behavior at the Flashing Yellow Arrow in the Presence of Pedestrians". 7th International Driving Assessment Conference Compendium. 2013
- Wolfe, M., Monsere, C., Bertini, R.L. "Exploring the Effects of Sensor Data Aggregation on Measuring Arterial Performance". *Paper 13-2707, Accepted for presentation at the 92nd Annual Meeting of* the Transportation Research Board, Washington, D.C., 2013.
- Kothuri, S., Reynolds, T. Koonce, P., Monsere, C. "Testing Strategies to Reduce Pedestrian Delay at Signalized Intersections: Pilot Study in Portland, Oregon" *Paper 13-3854, Proceedings of the 92nd Annual Meeting of the Transportation Research Board*, Washington, D.C., 2013.
- <u>Olson, C., Kothuri, S.</u>, Monsere, C., Koonce, P. Tufte, K. "A Framework for Multimodal Arterial Data Archiving" *Paper 12-1750*, *Proceedings of the 91th Annual Meeting of the Transportation Research Board*, Washington, D.C., 2012.
- Kothuri, S., Reynolds, T., Monsere, C., Koonce, P., "Preliminary Development of Methods to Automatically Gather Bicycle Counts and Pedestrian Delay at Signalized Intersections". *Paper 12-*2107, Proceedings of the 91th Annual Meeting of the Transportation Research Board, Washington, D.C., 2012.
- 14. Moore, A, Kendrick, C., Bigazzi, A., Haire, A., George, L. Figliozzi, M., **Monsere, C.**, Assessing Bicyclist and Pedestrian Exposure to Ultrafine Particles: Passive Shielding with Noise Barriers.

Paper 11-4064, Proceedings of the 90th Annual Meeting of the Transportation Research Board, Washington, D.C., 2011.

- Dill, J. Monsere, C., <u>N. McNeil</u>. Evaluation of Bike Boxes at Signalized Intersections, Paper 11-0810, *Proceedings of the 90th Annual Meeting of the Transportation Research Board*, Washington, D.C., 2011.
- 12. Li, H., **Monsere, C.** Automatically Generating Empirical Speed-Flow Traffic Parameters from Archived Sensor Data. Paper 11-0811, *Proceedings of the 90th Annual Meeting of the Transportation Research Board*, Washington, D.C., 2011.
- 11. Zheng, Z., Ahn, S. and **Monsere, C.** "Impact of Traffic Oscillations on Freeway Crash Occurrences" *Proceedings of the 89th Annual Meeting of the Transportation Research Board*, Washington, D.C., 2010.
- 10. Cetin, M., **Monsere, C.**, Nichols, A. "Bayesian Models for Re-identification of Trucks over Long Distances Based on Axle Measurement Data" *Proceedings of the 89th Annual Meeting of the Transportation Research Board*, Washington, D.C., 2010.
- 9. Chi, D., Dill, J., **Monsere, C.** "An Observational Evaluation of the Safety Effectiveness of Marked and Unmarked Crosswalks at Unsignalized Intersections" *Proceedings of the 88th Annual Meeting of the Transportation Research Board*, Washington, D.C., 2009.
- 8. **Monsere, C.**, Eshel, O., and Bertini, R.L. "Empirical Evaluation of Freeway Corridor Performance Before and After System-Wide Adaptive Ramp Metering System Implementation." *Proceedings of the 88<sup>th</sup> Annual Meeting of the Transportation Research Board*, Washington, D.C., 2009.
- 7. <u>Tasnim, S.</u>, **Monsere, C.** and Bertini, R.L. "Toward an Automated Incident Analysis Process Using Archived Data on the Portland Oregon Freeway System." 10th International Conference on Application of Advanced Technologies in Transportation, Athens, Greece, May 27–31, 2008.
- Peters, J., Monsere, C., H. Li, <u>M. Mahmud</u>, S. Boice. "Field-Based Evaluation of Corridor Performance After Deployment of an Adaptive Signal Control System in Gresham, Oregon". *Proceedings of the 87<sup>th</sup> Annual Meeting of the Transportation Research Board*, Washington, D.C., 2008.
- 5. Berkow, M., M. Wolfe, **Monsere, C.**, R.L. Bertini. "Using Signal System Data and Buses as Probe Vehicles to Define the Congested Regime on Arterials". *Proceedings of the 87th Annual Meeting of the Transportation Research Board*, Washington, D.C., 2008.
- Auffray, B., Monsere, C., R.L. Bertini. "An Empirical Investigation of the Impacts of Sun-Related Glare on Traffic Flow". *Proceedings of the 87<sup>th</sup> Annual Meeting of the Transportation Research Board*, Washington, D.C., 2008.
- 3. Tufte, K., P. Chavan, **Monsere, C.**, M. Stephens, R.L. Bertini. "Extending the Use of Archived ITS Data As a Potential Management Tool to Evaluate Traveler Information on Dynamic Message Signs". *Proceedings of the 87th Annual Meeting of the Transportation Research Board*, Washington, D.C., 2008.
- 2. Wolfe, M., **Monsere, C.**, and Bertini, R.L. "Arterial Performance Measurement Using Traffic Signal System Data." 10th International IEEE Conference on Intelligent Transportation Systems, Seattle, Washington, September 30-October 3, 2007.
- Kamyab, A., Monsere, C., M. Nelson. "Feasibility Study of a Ramp Bypass Lane as an Interim Solution to Weigh Station Capacity Problems" *Proceedings of the 78th Annual Meeting of the Transportation Research Board*. Washington D.C. January 1999.

## Reviewed Proceedings (by abstract)

24. Hurwitz, D., **Monsere, C.**, Jannat, M., Warner, J, Razmpa, A. "*Effective Design Treatment For Right Turns At Intersections With Bicycle Traffic*". Road Safety on 4 Continents, Rio de Janerio, Brazil, May 2016.

- 23. Dill, J. Clifton, K., **Monsere, C.**, McNeil, N. Measuring and Predicting Behavior Change In Response To New Cycle Tracks. Prepared for the 10th International Conference on Transport Survey Methods Leura, Australia, November 16-21, 2014
- 22. <u>Dierksen, L.</u>, **Monsere, C.**, Bertini, R.L. "A Second Look at the Effectiveness of the Myrtle Creek Dynamic Advanced Curve Warning System" *Proceedings of the 15th World Congress on Intelligent Transport Systems*, New York, NY, November 16-20, 2008.
- Eshel, O., Bertini, R.L., and Monsere, C. "Empirical Evaluation of Adaptive Ramp Metering Along Two Freeway Corridors in Portland, Oregon." *Proceedings of the 15th World Congress on Intelligent Transport Systems*, New York, NY, November 16-20, 2008.
- 20. Peters, J., **Monsere, C.**, S. Boice. "A Comprehensive Evaluation of Corridor Performance After Deploying the SCATS Adaptive Signal Control System in Gresham, Oregon". *Proceedings of the 2008 ITE Annual Meeting*, Anaheim, CA, August 17-20, 2008.
- Monsere, C. and A. Nichols, "Building a WIM Data Archive for Improved Modeling, Design, and Rating", Presented at North American Travel Monitoring Exhibition & Conference (NATMEC), Washington D.C., August 6-8, 2008
- Bertini, R.L. and Monsere, C. "Techniques for Establishing and Measuring Data Quality in an Archived Data User Service." *Presented at North American Travel Monitoring Exhibition & Conference* (NATMEC), Washington, D.C., August 6–8, 2008.
- 17. Bertini, R.L. and **Monsere, C.** "Towards Incorporating Arterial Performance Quality in the PORTAL Archived Data User Service." *Presented at North American Travel Monitoring Exhibition & Conference (NATMEC)*, Washington, D.C., August 6–8, 2008.
- Eshel, O., Monsere, C., and Bertini, R.L. "Empirical Evaluation of Oregon's System-wide Adaptive Ramp Metering System." 2008 TRB/IBTTA Joint Conference on Freeway and Tollway Operations, Fort Lauderdale, Florida, June 15-19, 2008
- Bertini, R.L., Monsere, C., Berkow, M., and Wolfe, M. "Using Automatic Vehicle Location Data to Determine Detector Placement." *CITE Annual Meeting and Quad Conference*, Victoria, B.C. April 26–30, 2008.
- Chavan, P., Tufte, K., Bertini, R.L., and Monsere, C. "Extending the Use of Archived ITS Data As a Potential Management Tool to Evaluate Traveler Information on Dynamic Message Signs." *CITE Annual Meeting and Quad Conference*, Victoria, B.C. April 26–30, 2008.
- 13. Wolfe, M., **Monsere, C.**, Koonce, P., and Bertini, R.L., "Improving Arterial Performance Measurement Using Traffic Signal System Data," *Compendium of Technical Papers, Institute of Transportation Engineers, District 6 Annual Meeting*, Portland, Oregon, July 15-18, 2007.
- 12. Berkow, M., Chee, J., Bertini, R.L., and **Monsere, C.**, "Transit Performance Measurement and Arterial Travel Time Estimation Using Archived AVL Data," *Compendium of Technical Papers, Institute of Transportation Engineers, District 6 Annual Meeting*, Portland, Oregon, July 15-18, 2007.
- Kloos, B., P. Koonce, Monsere, C., P. Zabell. "Providing Priority for Trucks at Signalized Urban Intersections." *Institute of Transportation Engineers Technical Conference*, San Diego, California, March 25-28, 2007.
- 10. Coffman, M. and **Monsere, C.**, "Enhancing Targeted Traffic Enforcement in Portland, Oregon." *Institute of Transportation Engineers, District 6 Annual Meeting*, Honolulu, Hawaii, June 25-27, 2006.
- Bertini, R.L., M. Lasky, and Monsere, C., "Validating Predicted Rural Corridor Travel Times from an Automated License Plate Recognition System: Oregon's Frontier Project." 8th International IEEE Conference on Intelligent Transportation Systems, Vienna, Austria, September 13-16, 2005.
- Monsere, C., E. Wilson, E., A. Springberg. "Enhancing the Oregon Crash Reporting Process: A Feasibility Assessment." *Institute of Transportation Engineers, District 6 Annual Meeting*, Kalispell, Montana, July 10-13, 2005.

- Monsere, C., R.L. Bertini, P. Bosa, and D. de la Houssaye. "Improving the Highway Safety Process: An Update and Enhancement to the Oregon DOT's Crash Reduction Factors List." *Institute of Transportation Engineers, District 6 Annual Meeting*, Kalispell, Montana, July 10-13, 2005.
- Monsere, C., R.L. Bertini and T. Moes. "Exploring Spatial and Temporal Performance Measurement In Metropolitan Transportation Safety Improvement Program" Proceedings of the 9th International Conference on Computers in Urban Planning and Urban Management, London, United Kingdom, June 29, 2005.
- Bertini, R.L., C. Nolan, <u>C. Bonner</u>, T. El-Seoud, and **Monsere, C.**, "Examination of the Impact of Speed Upon Highway Safety: An Oregon Perspective." *Institute of Transportation Engineers, District 6 Annual Meeting*, Sacramento, California, June 20–23, 2004.
- 4. **Monsere, C.**, B. Sposito, S. Johnston. "Safety Effectiveness and Operating Performance of Three-Cable Median Barrier on Interstate 5 in Oregon." *Compendium of Technical Papers, Institute of Transportation Engineers 2003 Annual Meeting*, Seattle, Washington, August 2003.
- Malik, S., R.L. Bertini, and Monsere, C., "Crash Data Reporting And Analysis An Oregon Pilot Study." *Compendium of Technical Papers, Institute of Transportation Engineers 2003 Annual Meeting*, Seattle, Washington, 2003.
- Monsere, C., T.H. Maze. "Analysis of a Multi-state Corridor Deployment of Intelligent Transportation Systems for Commercial Vehicle Operations". *Proceedings of the 6th World Congress on Intelligent Transportation Systems*. Toronto, Ontario. November 1999.
- 1. **Monsere, C.,** T.H. Maze. "Summary of an Economic Analysis Concerning the Application of Intelligent Transportation Systems/Commercial Vehicle Operations (ITS/CVO) to the Mid-Continent Corridor" *Proceedings of the Crossroads 2000 Conference*. Center for Transportation Research and Education, Iowa State University, Ames, Iowa. August 1998.

## **Industry Publications**

 Bertini, R.L., Eshel, O., Monsere, C., and Hagedorn, H. "Rating Ramps: Evaluating Portland, Oregon's Adaptive Ramp Metering System". *Traffic Technology International*, Surrey, U.K. 2009, pp 33-41.

## Textbooks and Handbooks

- 3. Monsere, C., <u>Foster, N.</u>, Borkowitz, T., Downey, M. Kothuri, S. Bertini, R.L. "*Chapter 9: Pedestrians. Handbook of Transportation Engineering*". Taylor and Francis. 2015, pp 119-142
- 2. Monsere, C., <u>Foster, N.</u>, Borkowitz, T., Downey, M. Kothuri, S. Bertini, R.L. "*Chapter 10: Bicycle Transportation. Handbook of Transportation Engineering*". Taylor and Francis. 2015, pp 143-164
- 1. **Monsere, C.** Understanding and Communicating Multimodal Transportation Data. Pacific Crest, Plainfield IL. ISBN 978-1-60263-440-4. http://transportation-data.com/ 2012

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- 49. **Monsere, C.**, Hurwitz, D., Anderson, J., Kothuri, S., Milacek, M. "*Highway Safety Investigations Manual for Oregon Department of Transportation*". Oregon Department of Transportation, December 2021.
- 48. Hurwitz, D., Chai, E., Kothuri, S., **Monsere, C.,** Jashami, H., Appiah, F., (2022). "Safest Placement for Crosswalk at Intersections." Oregon Department of Transportation, SPR 840, August 2022.
- 47. McNeil, N., Dill, J., **Monsere, C.** (2022) Evaluation of Red Colored Pavement in Transit Lanes. Final Report for TriMet, Portland Bureau of Transportation.
- 47. Monsere, C., Hurwitz, D., Cobb, D., Kothuri, S. Jashami, H. "Assessment Of Bicycle Detection Confirmation and Countdown Devices". Oregon Department of Transportation, SPR 825, June 2021.

- 46. Dill, J. McNeil, N., Monsere, C. Kothuri, S., MacArthur, J., Brodie, S., Schoner, J., Chrzan, J., Elliot, J., Fink, T., Jacobson, T., Judelman, B. Proulx, F. (2021) AASHTO Council on Active Transportation Research Roadmap and Research Review, National Cooperative Highway Research Program, Transportation Research Board.
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- 44. **Monsere, C.**, Kothuri, S., Hurwitz, D., Anderson, J. "Addressing Oregon's Rise in Deaths and Serious Injuries for Senior Drivers and Pedestrians". Oregon Department of Transportation, SPR 828, April 2020.
- 43. Monsere, C., Kothuri, S., Anderson, J. "Best Practices for Installation of Rectangular Rapid Flash Beacons (RRFB)". Oregon Department of Transportation, SPR 814, February 2020.
- 42. **Monsere. C,** Hurwitz, D., Fink, C., Schultheiss, B., Hillman, T., Shaw, G., Boudart, J., Cobb, D. "Road User Understanding of Bicycle Signal Faces on Traffic Signals" NCHRP Web-Only Document 273. January 2020.
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- 40. Monsere, C., Kothuri, S., <u>Razmpa, A.</u> "Wrong Way Driving Analysis and Recommendations". Oregon Department of Transportation, September 2017.
- 39. Monsere, C., Kothuri, S., <u>Razmpa, A</u>. "An Update to Issues Report for Interstate Speed Changes". Oregon Department of Transportation, June 2017.
- 38. Monsere, C., Figliozzi, M, Kothuri, S., <u>Razmpa, A.</u> "Safety Effectiveness of Pedestrian Crossing Enhancements". Oregon Department of Transportation SPR Project No. 778, October 2016.
- 37. Monsere, C., Wang, H. <u>Wang, Y.</u>, Chen, C. "*Risk Factors for Pedestrian and Bicycle Crashes*". Oregon Department of Transportation SPR Project No. 779, April 2017.
- Hurwitz, D., Monsere, C., Jannat, M., Warner, J., <u>Razmpa, A.</u> "Towards Effective Design Treatment For Right Turns At Intersections With Bicycle Traffic". Oregon Department of Transportation SPR Project No. 767, June 2015.
- 35. Dixon. K., **Monsere, C.**, Avelar, R., Barnett, J., Escobar, P. Kothuri, S. <u>Wang, Y.</u> "Improved Safety Performance Functions For Signalized Intersections", Oregon Department of Transportation SPR Project No. 756, May 2015.
- Monsere, C., J. Dill, N. McNeil, K. Clifton, <u>N. Foster</u>, T. Goddard, M.Berkow, J.Gilpin, K. Voros, D.van Hengel, J.Parks. *Lessons From The Green Lanes: Evaluating Protected Bike Lanes In The U.S.*. Final Report, National Institute for Transportation and Communities (NITC), NITC-RR-583, June 2014.
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- 32. Figliozzi, M., **Monsere, C.**, Nordback, K., Johnson, P. and Blanc, B. "Design and Implementation of Pedestrian and Bicycle-Specific Data Collection Methods in Oregon". Final Report, Oregon Department of Transportation SPR Project No. 754, June 2014.
- Monsere, C. Figliozzi, M., <u>Thompson, S., Paulsen, K</u>. "Operational Guidance For Bicycle-Specific Traffic Signals in the United States". Final Report, Oregon DOT and Oregon Transportation Research and Education Consortium, SPR 747, September 2013.

- 30. Hurwitz, D., **Monsere, C.** "Improved Pedestrian Safety at Signalized Intersections Operating the Flashing Yellow Arrow". Final Report, Oregon Transportation Research and Education Consortium, OTREC-RR-13-01, April 2013.
- Tufte. K. Monsere, C., "Multimodal Data at Signalized Intersections: Strategies for Archiving Existing and New Data Streams to Support Operations and Planning & Fusion and Integration of Arterial Performance Data" Final Report, Oregon Transportation Research and Education Consortium, OTREC-RR-430, September 2012.
- Monsere, C., Cetin, M., and Nichols, A. "Exploratory Methods For Truck Re-Identification In A Statewide Network Based On Axle Weight And Axle Spacing Data To Enhance Freight Metrics Phase 2" Final Report, Oregon Transportation Research and Education Consortium, OTREC-RR-12-04, May 2012.
- 27. Monsere, C., Limm, M., Dai, C., Wu, X. "Expanding Development of the Oregon Traffic Safety Data Archive, Phase 2" Final Report, Oregon Transportation Research and Education Consortium, OTREC-RR-11-28, March 2012.
- Dixon, K., Monsere, C., Xie, F., <u>Gladhill, K.</u>, *Calibrating the Highway Safety Manual Predictive Models for Oregon State Highways*, Final Report, Oregon Department of Transportation SPR Project No. 6XX, September 2011.
- 25. Monsere, C., An Independent Analysis of a Traffic Separator on OR99W, ODOT Region 1. Final Report, Oregon Department of Transportation Region 1, June 2011.
- 24. **Monsere, C.**, Johnson, T., Dixon, K., Zheng, J, Van Schalkwyk, I. *An Assessment of Statewide Intersection Safety*, Final Report, Oregon Department of Transportation SPR Project No. 667, June 2011.
- 23. Monsere, C., N. McNeil, J. Dill. Evaluation of Innovative Bicycle Facilities: SW Broadway Cycle Track & SW Stark/Oak Street Buffered Bike Lanes, Portland State University, Portland, OR, 2011.
- 22. McMullen S., Monsere, C., Freight Performance Measures: Approach Analysis, ODOT / OTREC Research Report, SPR 664 OTREC-RR-10-04.
- Monsere, C., Cetin, M., and Nichols, A. "Exploratory Methods For Truck Re-Identification In A Statewide Network Based On Axle Weight And Axle Spacing Data To Enhance Freight Metrics" Final Report, Oregon Transportation Research and Education Consortium, OTREC-RR-09-, December 2009.
- Monsere, C., Ahn, S., and Zheng, Z. "Empirical Observation of the Impact of Traffic Oscillations On Freeway Safety" Final Report, Oregon Transportation Research and Education Consortium, OTREC-RR-08-190, November 2009.
- 19. Copeland, B., Crain, J., **Monsere, C.**, "*Collision Diagramming Tools Evaluation*". Final Report. DKS Associates. Portland, OR, December 2008
- Monsere, C., Dixon, K., <u>Diercksen, L</u>, and Liebler, M. "Evaluating The Effectiveness of the Safety Investment Program (SIP) Policies For Oregon" Final Report, Oregon Department of Transportation SPR Project No. 651, August 2009.
- 17. **Monsere, C.** Wolfe, M. <u>Alawakiel, H.</u>, Stephens, M. "Developing Corridor Level Truck Travel Time Estimates and Other Freight Performance Measures from Archived ITS Data" Final Report, Oregon Department of Transportation SPR Project No. 304-361, and Oregon Transportation Research and Education Consortium, OTREC-RR-09-10, August 2009.
- 16. Monsere, C., Eshel, O., Ahn, S., and Bertini, R.L. "Using Archived ITS Data to Measure the Operational Benefits of a System-wide Adaptive Ramp Metering System" Final Report, Oregon Department

of Transportation SPR Project No. 645, and Oregon Transportation Research and Education Consortium, OTREC-RR-08-190, December 2008.

- Monsere, C. and <u>Chi. D.</u> "A Strategy for Reducing the Impact of Driving Under Influence of Intoxicants in Portland, Oregon." Portland State University, Intelligent Transportation Systems Lab, Research Report CSTSP 08-01, March 2008
- 14. **Monsere, C.**, <u>T. Yin</u>, and M. Wolfe "Understanding the Safety Effects of Roadway Illumination Reductions", 05-02FINAL, Portland State University, Intelligent Transportation Systems Lab, August 2007.
- 13. **Monsere, C.**, <u>Wilson, E., Springberg, A.</u> "Enhancing the Oregon Crash Reporting Process: A Feasibility Assessment", Portland State University, Center for Transportation Studies, Research Report, April 2006.
- 12. Monsere, C., <u>Springberg, A</u>, Lyman, K. "*Electronic Communications from Oregon Courts to the Driver & Motor Vehicle Services Division: A Feasibility Assessment*" Portland State University, Center for Transportation Studies, Research Report, March 2006.
- 11. Monsere, C. Bertini, R.L., Breakstone, A. "Update and Enhancement of Oregon Department of Transportation's Crash Reduction Factors." Oregon Department of Transportation, FHWA-OR-RD-06-11, Salem Oregon, June 2006.
- Monsere, C. Bertini, R.L., Bosa, P., Chi, Delia. "Comparison of Identification and Ranking Methodologies for Speed-Related Crash Locations" Oregon Department of Transportation, FHWA-OR-RD-06-14, Salem Oregon, June 2006.
- Monsere, C. Bertini, R.L., Bosa, P. "Field Evaluation of the Myrtle Creek Advanced Curve Warning System." Portland State University, Center for Transportation Studies, Research Report, February 2006.
- Monsere, C., Bertini, R.L. and Breakstone, A. "Evaluation of Freeway Travel Times" Portland State University, Center for Transportation Studies, with Final Report prepared by Castle Rock, Inc. Research Report, July 2005.
- 7. **Monsere, C.**, <u>Tasnim, S.</u> "Results of the 2004 Clackamas County Traffic Safety Commission Citizen Survey" Portland State University, Center for Transportation Studies, Research Report, June 2005.
- 6. Bertini, R.L., **Monsere, C.** and Yin, T. "Benefits of Intelligent Transportation Systems Technologies in Urban Areas: A Literature Review" Portland State University, Center for Transportation Studies, Research Report, April 2005.
- 5. Bertini, R.L., Endo, S., **Monsere, C.** and Dill, J. "*First Annual Portland Metropolitan Region Transportation System Performance Report.*" Portland State University, Center for Transportation Studies, Research Report, September 2004.
- 4. **Monsere, C.**, Dill, J., Newgard, C., Rufolo, T., Wemple, E., Milliken, C. and Bertini, R.L. "*Impacts and Issues Related to Proposed Changes in Oregon's Interstate Speed Limits.*" Portland State University, Center for Transportation Studies, Research Report, September 2004.
- 3. **Monsere, C.**, T.H. Maze. "Report on a Traveler Information System for the Quad-Cities Mississippi River Bridges: Descriptions and Alternatives". Center for Transportation Research and Education, Iowa State University, Ames, Iowa. April 1998.
- Monsere, C. "Economic analysis of the application of Intelligent Transportation Systems technologies for commercial vehicle operations to the mid-continent corridor". Master's Thesis, Iowa State University, Ames, Iowa. December 1997
- Smith, D., T. Simodynes, Monsere, C.. "Concept Highway Maintenance Vehicle Final Report: Phase One". Center for Transportation Research and Education, Iowa State University, Ames, Iowa. April 1997.

#### **PRESENTATIONS AND INVITED TALKS**

- 98. Monsere, C. Results of Speed Limit Changes in Eastern Oregon, Oregon DOT Technical Services Conference, Nov 9, 2022.
- 97. Monsere, C. Speed Management, UBC International Safety Conference. Vancouver BC, Oct 31-Nov 1, 2022. (Invited)
- 96. Monsere, C. Safety and Comfort for Everyone, Sustainable Transportation Education Session. Bainbridge Island City Council (Virtual), January 21, 2021.
- 95. Monsere, C. NCHRP Web Only Document: Road User Understanding of Bicycle Traffic Signals, MassDOT Moving Together Conference, Amherst MA. (Virtual), November 19, 2020.
- 94. Monsere, C. User-Rated Comfort and Preference of Separated Bike Lane Intersection Designs, University of British Columbia Transportation Seminar, Vancouver, B.C. (Virtual), October 21, 2020.
- 93. Monsere, C. Effects of Island & RRFB Placement on Midblock Driver Yielding on Three Lane Roads, METRO Transport Meeting, Portland, OR (Virtual), October 14, 2020.
- 92. Monsere, C. Effects of Island & RRFB Placement on Midblock Driver Yielding on Three Lane Roads, Wester ITE Annual Meeting, Honolulu, HI (Virtual) June 30, 2020.
- 91. Monsere, C. Protecting Cyclists at Intersections Workshop, TRB Annual Conference, Washington D.C., January 12, 2020.
- 90. Monsere, C. User-Rated Comfort and Preference of Separated Bike Lane Intersection Designs, TRB Annual Conference, Washington D.C., January 12, 2020.
- 89. Monsere, C. Pedestrian Safety, Law Enforcement Training Conference, Eugene, October 28, 2019.
- 88. Monsere, C. N. McNeil. Contextual Guidance at Intersections for Protected Bicycle Lanes, NITC Webinar, October 8, 2019.
- 87. Monsere, C. N. McNeil. *Contextual Guidance at Intersections for Protected Bicycle Lanes*, NITC Transportation Summit Conference, Portland OR, Sept 19, 2019.
- 86. Monsere, C. N. McNeil. Protected bike lane intersections: Selecting designs to maximize cyclist comfort and attract riders, APBP Conference, Portland OR, August 27, 2019.
- 85. Monsere, C, Hurwitz, D. Improved Safety And Efficiency Of Protected/Permitted Right Turns In Oregon, PSU Friday Transportation Seminar Series, October 26, 2018.
- 84. Monsere, C., Hurwitz, D. Driver Response at Signalized Intersections Operating the Flashing Yellow Arrow: Results From a Driving Simulator Experiment, National Webinar Series: PBIC Crash Types Series - Left Turn Crashes Involving Pedestrians. October 25, 2018
- 83. Monsere, C. Kothuri, S., Hurwitz, D. Recommendations from FYA for Right Turns Research, Oregon Traffic Control Devices Committee, July 20, 2018.
- 82. Monsere, C., Kothuri, S. Improved Safety and Efficiency of Protected/Permitted Right Turns In Oregon, ITE Quad Conference, Portland Oregon, May 7, 2018.
- 81. Monsere, C. The Rectangular Rapid Flashing Beacon (RRFB) Rollercoaster Part 2: Research Findings, ODOT Traffic Engineering Conference, Salem OR, April, 25, 2018.
- 80. **Monsere, C.** A Simulator Based Analysis of Right Hook Crashes at Signalized Intersections. International Co-operation on Theories and Concepts in Traffic Safety, extra workshop. Vancouver, B.C. March 9, 2018.
- 79. Monsere, C. Safety Effectiveness of Pedestrian Crossings. PSU Friday Transportation Seminar, October 13, 2017
- 78. Monsere, C. Safety Effectiveness of Pedestrian Crossings. Oregon DOT Transportation Safety Division Annual Conference, October 23, 2017.
- 77. Monsere, C. Safety Effectiveness of Pedestrian Crossings. TRB UTC Spotlight on Pedestrian and Bicycle Safety, Washington DC, Dec 1-2, 2016.

- 76. Monsere, C. Safety Effectiveness of Pedestrian Crossings in Oregon. ProWalk ProBike Conference, Vancouver B.C., September 12-15, 2016.
- 75. Monsere, C. Highway Safety Manual Overview. Oregon DOT Transportation Safety Division Annual Conference, October 23, 2016.
- 74. Monsere, C. (Invited) Washington State DOT Safer Streets, Safer People Kick Off Meeting, Olympia, WA, Nov 7, 2014
- 73. Monsere, C. (Invited) Oregon Tech / NITC Civil Engineering Professional Lecture Series Current Trends in Transportation Safety Research, Klamath Falls, OR, November 8, 2013
- 72. Monsere, C. "Some Recent Safety Related Results from Bicycle-Pedestrian Research" Oregon Transportation Summit. Portland, OR September 2013
- 71. Monsere, C. (Invited) "Panel Discussion: Information Sharing Challenges for Researchers" Better Safety Results Through Information Sharing: A Workshop, Irvine, CA July 12-13, 2012.
- 70. Monsere, C. "Evaluating Innovative Bicycle Infrastructure: Some Comparisons of Portland, OR and Washington, DC (USA)" Velo-city Global, Vancouver B.C., June 26-29, 2012
- 69. **Monsere, C.** "A Framework for a Multimodal Regional Data Archive" North American Travel Monitoring Exhibition and Conference (NATMEC), Dallas, TX, June 4-7, 2012
- 68. Monsere, C. "Towards Automated Pedestrian and Bicycle Counts" North American Travel Monitoring Exhibition and Conference (NATMEC), ), Dallas, TX, June 4-7, 2012
- 67. Monsere, C. "Effective Graphics: Some Simple Principles to Avoid Creating Junk" Presented to ASCE-PSU, Lunch and Learn, February 8, 2012.
- 66. **Monsere, C.**, *"Multi-User Perspectives on Separated, On-Street Bicycle Infrastructure*" Presented at the presentation at the 91th Annual Meeting of the Transportation Research Board, Washington, D.C., January 2012.
- 65. Monsere, C., "Data Visualization and Exploration Techniques Using R and Postgres." Portland Postgres User Group (pdxPUG), July 21, 2011
- 64. **Monsere, C.**, "An Evaluation of Innovative Bicycle Facilities in Portland, OR." Presented at the the ITE District 6 Annual Meeting, Anchorage, AK, July 11-12, 2011
- 63. Monsere, C., "PORTAL: The Portland-Vancouver Multimodal Transportation Data Archive." Presented at the the Oregon SAE Chapter Monthly Meeting, Portland, OR, March 18, 2011
- 62. **Monsere, C.**, "An Evaluation of Innovative Bicycle Facilities in Portland, OR." Presented at the the ITE Quad Conference, Lynwood WA, April 19, 2011
- 61. **Monsere, C.**, "Bike Boxes at Signalized Intersections: The Portland Experience." Presented to APBP Webinar Series (Invited), December 15, 2010
- 60. Monsere, C., "Categorizing the Safety Performance of Oregon's Intersections." Presented to ACEC Brown Bag, ODOT Region 2, Salem OR, August 2010
- Monsere, C.. "A Framework for a Multimodal Regional Data Archive" North American Travel Monitoring Exhibition and Conference (NATMEC), Seattle, Washington, June 21-24, 2010
- Monsere, C. "Developing Corridor-Level Truck Travel Time Estimates and Other Freight Performance Measures From Archived ITS Data" North American Travel Monitoring Exhibition and Conference (NATMEC), Seattle, Washington, June 21-24, 2010
- 57. **Monsere, C.** and K. Dixon, "Overview of Oregon DOT Safety Investigations Manual". ODOT Traffic Engineering Day, Salem, OR, May 27, 2010
- Monsere, C. and J. Dill, "Bike Boxes at Signalized Intersections". Invited speaker at Tom Maze Transportation Seminar at Iowa State University's Institute for Transportation (InTrans), April 16, 2010
- 55. Monsere, C., "Bike Boxes at Signalized Intersections: Do They Work". Northwest Transportation Conference, Corvallis, Oregon, February 9, 2010

- 54. Monsere, C. and J. Dill, "Initial Assessment of Portland's Green Bike Boxes". PBOT Brown Bag Seminars, Portland State University, January 25, 2010
- 53. Monsere, C. and J. Dill, "Initial Assessment of Portland's Green Bike Boxes". Friday Transportation Seminars, Portland State University, Dec 4, 2009
- 52. Monsere, C., "Oregon Traffic Safety Data Archive". Metro Regional Safety Workgroup, Portland, OR, December 2, 2009
- 51. Monsere, C.. "Congestion Monitoring Innovations in Oregon", Presented at Congestion Monitoring Workshop, Beijing China, October 28, 2009
- 50. Monsere, C. and K. Dixon, "An Overview of the ODOT Safety Investigations Manual". Presented at Traffic Day, Eugene, OR October 20, 2009
- 49. Monsere, C., "Safety Smackdown- Data as the Hammer". OTREC Summit, Portland, OR, September 11, 2009
- 48. Monsere, C., "Estimating Freight Corridor Performance From WIM Data". ITE District 6 2009, Denver Colorado
- 47. Gladhill, K and **Monsere, C.**, "Highway Safety Manual Predictive Methods: Calibration for Oregon Highways". Presented at the ITE District 6 Annual Meeting, Denver, Colorado, July 2009
- 46. **Monsere, C.** "*TMIP Webinar: Using Visualization Techniques to Communicate Transportation Planning Data*" FHWA TMIP Webinar, November 13, 2008.
- 45. Monsere, C. "An Update on the Oregon Traffic Safety Data Archive", Oregon Transportation Safety Conference, Canyonville, OR, October 21, 2008.
- 44. Monsere, C. "Using Archived ITS Data to Measure the Operational Benefits of a System-Wide Adaptive Ramp Metering System (SWARM)", Portland State University Transportation Seminar, October 10, 2008.
- Monsere, C. and A. Nichols, "Building a WIM Data Archive for Improved Modeling, Design, and Rating", Presented at North American Travel Monitoring Exposition and Conference, Washington D.C., August 6-8, 2008
- 42. Bertini, R.L. and **Monsere, C.** "*Techniques for Establishing and Measuring Data Quality in an Archived Data User Service.*" North American Travel Monitoring Exhibition & Conference (NATMEC), Washington, D.C., August 6–8, 2008.
- Bertini, R.L. and Monsere, C. "Towards Incorporating Arterial Performance Quality in the PORTAL Archived Data User Service." North American Travel Monitoring Exhibition & Conference (NATMEC), Washington, D.C., August 6–8, 2008.
- 40. Monsere, C. "Safety Effects of Roadway Illumination Reduction", University of Washington Seminar Series, Seattle, Washington, April 2008.
- 39. Monsere, C. Wemple, B. Ooms, A. "Taking the City of Portland's High Crash intersection identification to the next level" Northwest Transportation Conference, February 7, 2008
- 38. Monsere, C. "An Update on ITS Lab Projects "Evaluation of SWARM Ramp Metering Algorithm", "Arterial Performance Measurement", "Update on Crash Reduction Factors Database" and "Using Existing ITS Commercial Vehicle Operation (ITS/CVO) Data to Develop Truck Travel Time Estimates and Other Freight Measures". ASCE Capital Branch, Salem OR, October 25, 2007.
- 37. Monsere, C. "Safety Effects of Roadway Illumination Reduction", Institute of Transportation Engineers, District 6 Annual Meeting, Portland, Oregon, July 15-18, 2007.
- 36. Monsere, C. and D. Chi., "Impact of Driving Under the Influence of Intoxicants", Institute of Transportation Engineers, District 6 Annual Meeting, Portland, Oregon, July 15-18, 2007.
- Monsere, C. J. Anad. "Motor Vehicle Crash Fatalities and Injuries: An Analysis of the Relationship of Roadway, Driver, Vehicle", Institute of Transportation Engineers, District 6 Annual Meeting, Portland, Oregon, July 15-18, 2007.

- 34. Monsere, C. "Estimating Safety Performance: Current and Future Tools" Technical Workshop: Oregon ITE, Portland, Oregon, January 30, 2007.
- 33. Monsere, C., A. Breakstone, Bertini, R.L., D. Bish. "Developing an Online Tool for Delivering Research Results: An Update to the Oregon Department of Transportation's Crash Reduction Factor Database." Transportation Research Board Annual Meeting, Washington, D.C., January 23, 2007.
- Monsere, C., P. Bosa. "Exploring Methods for Ranking Speed and Winter-Weather Related Crash Locations in Oregon by Combining Climate, Crash, and Highway Data." Transportation Research Board Annual Meeting, Washington, D.C., January 24, 2007.
- Monsere, C., P. Bosa. "A Methodology for Evaluating the Feasibility of Enhancing Traffic Records Processing in Oregon with Electronic Automation" International Forum on Traffic Records and Highway Safety Systems. Palm Desert, California, August 1, 2006
- Monsere, C. Kothuri, S. C., Bertini, R.L., Kothuri, S. and Breakstone, A. "Comparative Analysis of Various Travel Time Estimation Algorithms to Ground Truth Data Using Archived Data." North American Travel Monitoring Exhibition & Conference (NATMEC), Minneapolis, Minnesota, June 5, 2006.
- Monsere, C., Bertini, R.L., Horowitz, Z. and Tufte, K. "Incorporating Freight Performance Measures in an Archived Data User Service." North American Travel Monitoring Exhibition & Conference (NATMEC), Minneapolis, Minnesota, June 7, 2006.
- 28. Monsere, C., "Developing New Identification and Ranking Methods for Speed-Related Crashes in Oregon" Institute of Transportation Engineers Quad Conference, Bellevue, Washington. April 17, 2006.
- Monsere, C., K Srinivas. "The Effects of Highway Illumination Reduction on Safety Performance: An Interim Report" Institute of Transportation Engineers Quad Conference, Bellevue, Washington. April 17, 2006.
- 26. Monsere, C. Bertini. R..L. "Introduction to Intelligent Transportation Systems" University of Portland, Traffic Engineering, Portland, Oregon, December 6, 2005.
- 25. Monsere, C., "Impacts and Issues Related to Proposed Changes in Oregon's Interstate Speed Limits" Transportation Safety Conference. Gleneden, Oregon. September 21, 2005
- 24. **Monsere, C.**, "2<sup>nd</sup> Annual Oregon Crash Data Users' Forum" Transportation Safety Conference. Wilsonville, Oregon. September 20, 2005
- 23. Monsere, C., Bertini. R..L., Byrd, A. "Using Custom Transportation Data Collection Software with Handheld Computers for Education, Research, and Practice." American Society of Engineering Education Annual Meeting, Portland, Oregon., June 14, 2005
- 22. Monsere, C., Moes, T. "Community and School Traffic Safety Partnership (CSTSP) Measuring Traffic Safety Performance In Portland, Oregon" Institute of Transportation Engineers Quad Conference, Vancouver, British Columbia. April 9, 2005.
- Monsere, C., Bertini. R.L., Byrd, A. "Using Custom Transportation Data Collection Software with Handheld Computers for Education, Research, and Practice." Transportation Research Board Annual Meeting, Washington, D.C., January 10, 2005
- 20. Monsere, C. "Impacts and Issues Related to Proposed Changes in Oregon's Interstate Speed Limits" Transportation Seminar Series, Portland State University, January 7, 2005.
- 19. Monsere, C. Nolan, C. Bertini, R.L. "Measuring the Impacts of Speed Reduction Technologies: A Dynamic Advanced Curve Warning System Evaluation" Joint Meeting of the Oregon Section of ITE and IMSA, Portland, Oregon. October 25, 2004.
- 18. Monsere, C., "Oregon Crash Data Users' Forum" Transportation Safety Conference. Wilsonville, Oregon. September 24, 2004
- 17. Monsere, C., Wemple, E. Marek, J. Inyoswan, D. "Roadway Safety: Trends and Challenges." Institute of Transportation Engineers Quad Conference. Portland, Oregon. April 24, 2004.

- 16. **Monsere, C.**, "Using the AASHTO Strategic Highway Safety Plan: The Oregon DOT's Effort to Address Run-off-the-road Crashes" Institute of Transportation Engineers Quad Conference, Portland, Oregon. April 23, 2004.
- 15. Monsere, C., "Highway Safety: Data, Designs, Decisions" Highway Design for Capacity. Portland State University. Portland, Oregon, January 26, 2004
- 14. **Monsere, C.**, *"Highway Safety Engineering"* Introduction to Transportation Engineering, Oregon State University. Corvallis, Oregon, October 17, 2003
- 13. Monsere, C., "Understanding Older Drivers and Improving Safety". Transportation Safety Conference, Eugene, Oregon. October 16, 2003
- 12. Monsere, C., Sposito, B., Johnston, S. "Safety Effectiveness and Operating Performance of Three-Cable Median Barrier on Interstate 5 in Oregon". Institute of Transportation Engineers Annual Meeting, Seattle, Washington. August 27, 2003.
- 11. Monsere, C., "How We Think About Highway Safety" Introduction to Transportation Engineering. Portland State University. Portland, Oregon, March 5, 2003
- 10. Monsere, C., "Highway Safety at the Oregon DOT" Technical Session, Kittelson and Associates, Inc., Portland, Oregon. September 24, 2002.
- 9. Monsere, C., "How We Think About Highway Safety" Introduction to Transportation Engineering, Oregon State University. Corvallis, Oregon, May 23, 2002
- 8. **Monsere, C.**, "*Preliminary Evaluation of the Safety Effectiveness of Centerline (Median) Rumble Strips in Oregon*". Institute of Transportation Engineers Quad Conference, Seattle, Washington. April 9, 2002.
- 7. **Monsere, C.**, "*Highway Safety The State of the Practice*", ASCE Student Meeting, Oregon State University. Corvallis, Oregon. February 27, 2002.
- 6. **Monsere, C.**, "A Statewide Freight Demand Forecasting Model: An Iowa Case Study" Portland State University, Portland, Oregon. November 16, 2001.
- Monsere, C., Souyleyrette R. "The Development of a Policy Sensitive Multimodal, Multicommodity Statewide Freight Transportation Planning Model." "Mid-continent Transportation Symposium., Iowa State University, Ames, Iowa. May 16, 2000
- Monsere, C. "Analysis of a Multi-State Corridor Deployment of Intelligent Transportation Systems for Commercial Vehicle Operations (ITS/CVO)" George Mason University, Fairfax, Virginia. March 29, 2000
- 3. Monsere, C. "A Survey of Urban Rail Transit" Transportation Student Association, Iowa State University, Ames, Iowa. September 29, 1999
- Monsere, C. Maze. T.H. "Summary of an Economic Analysis Concerning the Application of Intelligent Transportation Systems/Commercial Vehicle Operations (ITS/CVO) to the Mid-Continent Corridor" Crossroads 2000 Conference. Center for Transportation Research and Education, Iowa State University, Ames, Iowa. August 19, 1998.
- Monsere, C. "Estimating the Value of Commercial Vehicle Time Savings". Transportation Scholars Conference, Midwest Transportation Center, Iowa State University, Ames, Iowa. November 17, 1996.

### **GRANTS, HONORS AND FELLOWSHIPS**

#### Sponsored Research at Portland State University

Year	Project Title	Sponsor	Role	Amount
2023	SPR 877 Leading Pedestrian Intervals	Oregon DOT	Co-PI	\$100,000
			(Kothuri)	

2023	Division Transit Platform Evaluation	TriMet	Co-PI (McNeil)	\$89,000
2022	SPR 870 Evaluation of Placement Options for the R1-6a Sign	Oregon DOT	Co-PI (Kothuri)	\$185,000
2021	SPR 855 Removing Residual Lane Markings to Reduce Driver Confusion (w Hurwitz, OSU)	Oregon DOT	PI (PSU)	\$89,000
2020	Design Options to Reduce Turning Motor Vehicle – Bicycle Conflicts at Controlled Intersections	NCHRP (Prime: Toole Design Group)	PI (PSU)	\$175,000
2020	Safety Evaluation of On-Street Bicycle Facility Design Features	NCHRP (Prime: TTI)	PI (PSU)	\$100,000
2020	Updating the Highway Safety Investigation Manual for the Oregon Department of Transportation	Oregon DOT	PI (PSU)	\$48,277
2020	SPR 840 Safest Placement for Crosswalks at Intersections (w Hurwitz, OSU)	Oregon DOT	PI (PSU)	\$90,000
2020	Effect of Residential Speed Limit Reduction on Driving Speeds in Portland OR	Portland Bureau of Transportation	PI (PSU)	\$15,254
2019	Evaluation of Road User Comprehension and Compliance with Red-colored Transit Priority Lanes	Portland Bureau of Transportation/TriMet/Jac obs	PI (PSU)	\$165,000
2018	SPR 825 Bicycle Detection And Feedback Assessment (with S. Kothuri and D. Hurwitz (OSU)	Oregon DOT	PI (PSU)	\$83,715
2018	Road User Understanding of Bicycle Signal Faces	NCHRP	PI	\$100,000
2018	SPR 828 Reversing Oregon's Rise in Deaths and Serious Injuries for Senior Drivers and Pedestrians (with S. Kothuri and D. Hurwitz (OSU)	Oregon DOT	PI (PSU)	\$97,103
2018	Update to the Interstate Speed Analysis	Oregon DOT	PI	\$10,000
2017	Bus-Bike Interaction (w/ M. Figliozzi)	National Institute for Transportation and Communities (NITC)	Co-PI	\$125,000
2017	SPR 814: Best Practices For Installation Of Rectangular Rapid Flash Beacons (RRFB) With And Without Median Refuge Islands	Oregon DOT	PI (PSU)	\$176,000
2016	Wrong Way Driving in Oregon: Low Cost Countermeasures and Recommendations	Oregon DOT	PI	\$37,000
2016	SPR 800: Quantifying the Performance Of Low- Noise Rumble Strips (with Hurwitz, OSU)	Oregon DOT	PI (PSU)	\$68,000
2016	Contextual Guidance at Intersections for Protected Bicycle Lanes	National Institute for Transportation and Communities (NITC)	PI	\$250,000
2015	TOPR: Safety Reference Tool	FHWA sub-consultant to ICF International	PI (PSU)	\$65,000
2015	SPR 789: Improved Safety and Efficiency of Protected/Permitted Right Turns in Oregon (with Hurwitz, OSU)	Oregon DOT	Co-PI	\$70,000
2015	Addressing Bicycle-Vehicle Conflicts with Alternate Signal Control Strategies (with Kothuri, Smaglik, NAU, Nordback)	National Institute for Transportation and Communities (NITC)	Co-PI	\$131,300
2015	Preparing Students for Writing in Civil Engineering Practice: Research-based Materials Development and Assessment	National Science Foundation	Contributor	\$6,645
2015	Improving Walking Conditions at Intersections with Traffic Signal Timing Strategies (with Kothuri and Smaglik, NAU)	NITC	PI	\$109,075

2014	SPR 767: Toward Effective Design Treatments for Right-Turns at Intersections with Bicycle	Oregon DOT	Co-PI	\$72,000
2014	Improving Adaptive Response Signal Control Performance: Implications of Non-Invasive Detection and Legacy Timing Practices (with Kothuri and Smaglik, NAU)	Oregon DOT	Co-PI	\$20,427
2014	SPR 778: Safety Effectiveness for Pedestrian Crossing Enhancements (with Figliozzi)	Oregon DOT	Co-PI	\$130,000
2014	Risk Factors for Pedestrian and Bicycle Crashes (with H. Wang, OSU)	Oregon DOT	PI	\$82,984
2012	Bluetooth Validation	Oregon DOT	PI	\$12,000
2012	Lessons from the Green Lane: A Comprehensive Evaluation of Protected Cycling Facilities. Collaborator: J.Dill, K. Clifton, N. McNeil (PSU), M. Berkow (Alta) J. Parks (Consultant)	National Institute for Transportation and Communities (NITC) and Bikes Belong	PI	\$230,000
2012	Modeling and Analyzing the Impact of Advanced Technologies on Livability and Multimodal Transportation Performance Measures in Arterial Corridors. Collaborator: M. Figliozzi (PSU)	National Institute for Transportation and Communities (NITC)	Co-PI	\$91,000
2012	Application of Interactive Video Sensing and Management for Pedestrian and Bicycle Safety Studies. Collaborator: M. Figliozzi (PSU), W. Chi (PSU)	National Institute for Transportation and Communities (NITC)	Co-PI	\$143,057
2012	Design and Implementation of Pedestrian and Bicycle-Specific Data Collection Methods in Oregon. Collaborator: M. Figliozzi (PSU)	Oregon DOT	Co-PI	\$137,000
2012	Developing Signalized Intersection Safety Performance Functions for a Variety of Approach Speeds Configurations	Oregon DOT	Co-PI	\$145,00
2012	Safety Impacts of Intersection Sight Distance	NCHRP (Prime: VHB Engineering)	PI	\$75,000
2011	Permanent Freight Data Collection Infrastructure and Archive System, Collaborator: D. Kim (OSU), D. Porter (OSU), K. Tufte (PSU)	Metro	PI / co-PI	<b>\$179,46</b> 0
2011	Innovative Bicycle Facility Research and Analysis, with N McNeil and J.Dill	District of Columbia DOT, subconsultant to Kittelson and Associates, Inc.	PI	\$63,783
2011	Clean-up of Existing Data Sets to Support Dynamic Mobility Applications Development, Collaborator: K. Tufte (PSU)	US DOT	Co-PI	\$149,557
2011	Operational Guidance for Bicycle-Specific Traffic Signals, Collaborator: M. Figliozzi (PSU)	Oregon Transportation Research and Education Consortium & ODOT	PI	\$130,624
2011	Improved Pedestrian Safety at Signalized Intersections Operating the Flashing Yellow Arrow, Collaborator: D. Hurwitz (OSU)	Oregon Transportation Research and Education Consortium & Washington County	Co-PI	\$123,798
2010	City of Bend Data Management Plan	City of Bend	Research	\$5,000
2010	Evaluation of Innovative Bicycle Facilities	Portland Bureau of Transportation	PI	\$13,344
2010	Evaluation of Bike Boxes at Signalized Intersections: Phase 2	Oregon Transportation Research and Education Consortium & PBOT	PI	\$89,465

2010	Multimodal Data at Signalized	Oregon Transportation	PI	\$73,223
	Intersections: Strategies for Archiving Existing and New Data Streams to Support Operations and	Research and Education Consortium		
2009	Planning An Evaluation of Bike Signal Practices	Portland State University	PI	\$10,873
2009	Building Capacity to Measure and Model the Environmental and Public Health Impacts of Traffic Flows and Traffic Management Policies in Urban Areas, Collaborator: M. Figliozzi and L. George (PSU)	Miller Foundation	Co-PI	\$114,923
2009	Development of a Model to Predict and Mitigate Environmental and Public Health Impacts of Traffic Flows in Urban Microenvironments. Collaborator: M. Figliozzi and L. George (PSU)	Oregon Transportation Research and Education Consortium	Co-PI	\$69,868
2009	Exploratory Methods for Truck Re-identification in a Statewide Network Based on Axle Weight and Axle Spacing Data to Enhance Freight Metrics. Phase 2 Collaborator: A. Nichols (Marshall) and M.Cetin (ODU)	Oregon Transportation Research and Education Consortium	Ы	\$105,764
2009	PSU Transportation Student Group (STEP) Support	Oregon Transportation Research and Education Consortium	PI	\$15,019
2009	Expanding Development of the Oregon Traffic Safety Data Archive: Phase 3	Oregon Transportation Research and Education Consortium	PI	\$36,912
2009	Development, Deployment, and Assessment of a New Educational Paradigm for Transportation Professionals and University Students: A Collaboration of the Region X Transportation Consortium Collaborator: R.L. Bertini (PSU), M. Figliozzi (PSU), M. Kyte (University of Idaho-PI)	Federal Highway Administration	PI *assigned PI after Bertini to USDOT	\$229,000
2008	Exploratory Methods for Truck Re-identification in a Statewide Network Based on Axle Weight and Axle Spacing Data to Enhance Freight Metrics. Collaborator: A. Nichols (Marshall) and M.Cetin (ODU)	Oregon Transportation Research and Education Consortium	Ы	\$98,295
2008	PSU Transportation Student Group (STEP) Support	Oregon Transportation Research and Education Consortium	PI	\$15,019
2008	Expanding Development of the Oregon Traffic Safety Data Archive: Phase 2	Oregon Transportation Research and Education Consortium	PI	\$36,912
2008	Collision Diagram Tool Evaluation Project	Oregon Department of Transportation	PI	\$7,748
2008	Evaluation of Bike Boxes at Signalized Intersections Collaborator: J. Dill (PSU)	Oregon Transportation Research and Education Consortium & ODOT	Co-PI	\$144,273
2008	Analyzing and Quantifying the Impact of Congestion on LTL Industry Costs and Performance in the Portland Metropolitan Region. Collaborator: M. Figliozzi (PSU)	Oregon Transportation Research and Education Consortium	Co-PI	\$69,868
2008	Calibrating the HSM Predictive Methods for Oregon Highways. Collaborator: K Dixon (OSU)	Oregon Transportation Research and Education Consortium	Co-PI	\$126,081

2007	Empirical Observation of the Impact of Stop-and- go Driving on Freeway Safety Collaborator: S. Ahn (ASU)	Oregon Transportation Research and Education Consortium	PI	\$60,000
2007	Expanding Development of the Oregon Traffic Safety Data Archive	Oregon Transportation Research and Education Consortium	PI	\$20,000
2007	Application of WIM Data for Improved Modeling, Design, and Rating Collaborator: A. Nichols (Marshall) and C. Higgins (OSU)	Oregon Transportation Research and Education Consortium	PI	\$138,996
2007	Freight Performance Measures: Approach Analysis Collaborator: L Zhang (OSU)	Oregon Transportation Research and Education Consortium & ODOT	Co-PI	\$105,000
2007	Using Existing ITS Commercial Vehicle Operation (ITS/CVO) Data to Develop Statewide (and Bi- state) Truck Travel Time Estimates and Other Freight Measures Collaborator: R.L. Bertini	Oregon Transportation Research and Education Consortium & ODOT	Ы	\$85,299
2007	Assessment of Statewide Intersection Safety Performance	Oregon Department of Transportation	PI	\$120,000
2007	Developing a Safety Investigations Manual for the Oregon Department of Transportation. Collaborator: K Dixon (OSU)	Oregon Department of Transportation	Co-PI	\$75,000
2007	Support for Portland State University Students in Transportation Engineering and Planning (STEP) Group (OTREC 07-08)	Oregon Transportation Research and Education Consortium	PI	\$15,000
2007	Vehicle Safety Improvements at High Accident Locations (Phase 1 and 2)	City of Portland, Office of Transportation, Prime Contractor: Kittelson & Assoc.	Research Associate	\$12,000
2007	Community and School Traffic Safety Partnership Research and Evaluation (Year 2 - extension)	City of Portland, Office of Transportation	PI	\$28,000
2007	Support for Portland State University Students in Transportation Engineering and Planning (STEP) Group (OTREC 06-07)	Oregon Transportation Research and Education Consortium	PI	\$15,000
2007	Preliminary Development of the Oregon Traffic Safety Data Archive	PSU Provost's Foundation Faculty Development Awards	PI	\$1,000
2006	Evaluating the Effectiveness of the Safety Investment Program (SIP) Policies. Collaborator: K Dixon (OSU)	Oregon Department of Transportation	PI	\$95,000
2005	Motor Vehicle Crash Fatalities and Injuries: An Analysis of the Relationship of Roadway, Driver, Vehicle, and Emergency Medical Services in Oregon Counties	Foundation for Air Medical Research and Education	ΡΙ	\$6,000
2005	Community and School Traffic Safety Partnership Research and Evaluation (Year 2)	City of Portland, Office of Transportation	PI	\$52,000
2005	Evaluating Traffic Signal Improvements for Freight Mobility	City of Portland, Office of Transportation (Signals and Lighting	PI	\$15,000
2005	Highway Safety Manual: Parts 2 and 3 (NCHRP)	National Cooperative Highway Research Program, Subcontractor	Research Associate	\$5,192
2005	Understanding the Safety Effects of Roadway Illumination Reductions	Oregon Department of Transportation	PI	\$47,960

	1	1	Total	\$6,518,647
2006	PSU Faculty Travel Grant	Portland State University	PI	\$1000
2006	PSU Faculty Travel Grant	Portland State University	PI	\$600
2008	Eisenhower Fellowship: Lisa Dierksen	Universities and Grants Program, FHWA	PI	\$6,000
2009	Eisenhower Fellowship: Sirisha Kothuri	Universities and Grants Program, FHWA	PI	\$11,500
2009	Eisenhower Fellowship: Alex Bigazzi	Universities and Grants Program, FHWA	PI	\$62,300
2022	Eisenhower Fellowship: Cam Bennett	Universities and Grants Program, FHWA	PI	\$31,500
2004- 2005	Research and Evaluation Collaborator: R.L. Bertini	Transportation	C0-F1	φ40 <b>,</b> 369
2004	Impacts and Issues Related to Changes in Interstate Speed Limits Collaborator: R.L. Bertini Community and School Traffic Safety Partnership	Oregon Department of Transportation City of Portland, Office of	Co-PI Co-PI	\$41,790
2004	Enhancing the Oregon Crash Reporting Process: A Feasibility Assessment Collaborator: R.L. Bertini	TransNow University Transportation Center and Oregon Department of Transportation	Co-PI	\$62,000
2004	Region 1 Intelligent Transportation System Implementation Plan Benefits Collaborator: R.L. Bertini	Oregon Department of Transportation, Subcontractor, Prime Contractor: Parametrix	Co-PI	\$6,000
2004	Motor Carrier Enforcement's Role in Fuel Tax Evasion (NCHRP 19-06) Collaborator: T. Rufulo	National Cooperative Highway Research Program, Subcontractor, Prime Contractor: Battelle	Research Associate	\$3,650
2004	Evaluation of Freeway Travel Time Estimates	Oregon Department of Transportation, Subcontractor, Prime Contractor: Castle Rock	Research Associate	\$15,000
2005	Clackamas County Traffic Safety Commission Safety Survey	Clackamas County	PI	\$3,000
2005	A Comprehensive Assessment of Electronic Communications from Oregon Courts to the DMV	Oregon Department of Transportation	PI	\$49,480

### Honors

Branford P. Millar Award for Faculty Excellence, Portland State University, June 2022.

Outstanding Transportation Educator, Western District of ITE, July 2020

- PI on AASHTO's "Sweet Sixteen" High Value Research Project "Operation Guidance for Bicycle Specific Traffic Signals" (co-PI Miguel Figliozzi) August 2015
- Co-PI on AASHTO's "Sweet Sixteen" High Value Research Project "Evaluation of Innovative Bicycle Facilities in Washington D.C." (co-PI Jennifer Dill, project lead J. Parks, Kittelson and Associates, Inc.) August 2013.
- Researcher of the Year, Oregon Transportation Research and Education Consortium, September 2011

Instructor of the Year, Civil and Environmental Engineering (student selection), June 2011

Engineering Education Advocate, Oregon Transportation Safety Awards, October 2010

Professor of the Year, Civil and Environmental Engineering (student selection), June 2009 Best Section Website, Oregon Section of ITE, 2007 (webmaster for section) Excellence in Community-Based Research Civic Engagement Award (w/ R.L. Bertini), Portland State University, May 2006 Young Professional Achievement Award, District 6 ITE (Western United States), 2005 Young Transportation Engineer of the Year, Oregon Section of ITE, 2005 Excellence Award, Oregon Department of Transportation, 2001 Trailblazer Award, American Association of State Highway and Transportation Officials, 2000 Student of the Year, Region 7, University Transportation Centers Program, 1999 Chi Epsilon, Civil Engineering Honor Society Tau Beta Pi, Engineering Honor Society, 1997 Graduate Student of the Year, Mid-America Transportation Center, 1996 Premium for Academic Excellence Award, Iowa State University, 1995 Engineering and Science Key Award, University of Detroit Mercy, 1995 Elihu Geer Scholastic Achievement Award, University of Detroit Mercy, 1995 Chi Epsilon, Civil Engineering Honor Society, 1993 Insignis Academic Scholarship, University of Detroit Mercy, 1991-1995

### Fellowships

Eno Foundation Fellow, Eno Center for Transportation Leadership Development, 1997

- Dwight David Eisenhower Graduate Fellowship (\$70,000), National Highway Institute, U.S. Department of Transportation, 1998–2000
- Dwight David Eisenhower Graduate Fellowship (\$40,000), National Highway Institute, U.S. Department of Transportation, 1996-1998

#### **TEACHING, MENTORING AND CURRICULAR ACHIEVEMENTS**

#### Teaching Improvement Workshops

Participated in the American Society of Civil Engineers' Mini-ExCEEd (Excellence in Civil Engineering Education) Teaching Workshop held at Portland State University, June 24 2009

Attended National Transportation Education Conference, Portland, OR, June 22-24 2009

#### Teaching

#### **Courses Taught**

#### Portland State University

Civil Engineering Professions (CE 315 – required undergraduate), 2015-2021 Urban Transportation Systems (CE454 – required undergraduate), 2005-2014 Introduction to Transportation Engineering (CE 35 – required undergraduate 1) Introduction to Multimodal Transportation Engineering Data Analysis (CE 554) 2010-2018 Transportation Safety Analysis (CE 450/550) 2011-present Design and Operation of Bicycle and Pedestrian Infrastructure (CE493/593) 2014-present Introduction to Civil and Environmental Engineering (CE 111) Civil and Environmental Engineering Computations (CE 112) Civil Engineering Drawing and Spatial Analysis (CE 115) Freight Transportation and Logistics (CE 453/553) Benefit Cost Analysis for Transportation Projects (CE 407/507)

## Iowa State University

Introduction to Transportation Engineering (CE 352) Spring 1997 (Teaching Assistant, 43 students) Spring 1998 (Teaching Assistant, 37 students) Spring 1999 (Teaching Assistant, 38 students)

## **Curriculum Development**

## <u>New Courses Developed</u>

Design and Operation of Bicycle and Pedestrian Infrastructure

Introduction to Transportation Engineering Research Methods

Transportation Safety Analysis

Introduction to Civil Engineering Graphics

Freight Transportation and Logistics

Seminar: Benefit Cost Analysis

## Courses Modified

Civil Engineering Profession

## **Graduate Committees**

## Ph.D. Dissertation Advisor

- 1. Yi Wang, Using microsimulation to estimate bicyclist safety for urban bikeway intersection design options, 2015-2020 (Unfinished)
- 2. Sirisha Kothuri, Exploring Pedestrian Responsive Traffic Signal Timing Strategies in Urban Areas, 2014

### Ph.D. Dissertation Committee Member

- 1. Chawalit Tipagornwong, Optimizing Commercial Vehicle Parking Supply in Downtown Areas
- 2. Kristi Currans, Issues in Urban Trip Generation
- 3. Tara Goddard, Drivers' Attitudes and Behaviors Toward Bicyclists: Intermodal Interactions and Implications for Road Safety
- 4. Steven Gherke, Land Use Mix and Pedestrian Travel Behavior: Advancements in Conceptualization and Measurement
- 5. Wei Feng, Analyses of Bus Travel Time Reliability and Transit Signal Priority at the Stop-To-Stop Segment Level, 2014
- 6. Roger Lindgren, Civil and Environmental Engineering, "Analysis of Flow Features in Queued Traffic on a German Freeway," (added in Summer 2004)
- 7. Rafaeal Ferndaez-Montezuma, Computer Science, "A Data-Descriptive Feedback Framework for Data Stream Management Systems" \*GO Representative
- 8. Kathyn Mohor, Computer Science, "Scalable Event Tracing on High-End Parallel Systems," (added in Summer 2009) \*GO Representative
- 9. Paul Wachana, Urban Studies and Planning, "Analysis of Bus Operator Data for Safety" \*GO Representative

### M.S. Thesis Advisor

- 1. Cameron Bennett, A Survey of North American Electric Bicycle Owners. 2024
- 2. Apy Das, Determinant Factors of Bicyclist Injury Severity at Signalized and Unsignalized Intersections. 2021
- 3. Frank Boteng-Appiah, Improving Bicycle -Crossings at Unsignalized Intersections through Pavement Markings: Analysis of the City of Portland Innovative Strategy 2021
- 4. Ali Razmpa, An Assessment of Post-Encroachment Times for Bicycle-Vehicle Interactions Observed in the Field, a Driving Simulator, and in Traffic Simulation Models, 2016
- 5. Matthew Blake Downey, Evaluating the Effects of a Congestion and Weather Responsive Advisory Variable Speed Limit System in Portland, Oregon, 2015
- 6. Joel Stephen Barnett, On the Estimation of Volumes of Roadways: An Investigation of Stop-Controlled Minor Legs, 2015
- 7. Todd Robert Johnson, Safety at Half-Signal Intersections in Portland, Oregon, 2015
   \* Results of work cited in Portland City Directive allowing half-signals (link)
- 8. Samson Ray Riley Thompson, Bicyclist Compliance at Signalized Intersections, 2015
- 9. Kirk Paulsen, Bicycle Performance Study (in progress, though not likely to finish)
- 10. Nicholas Foster, Predicting Bicyclist Comfort in Protected Bike Lanes, 2014
  - \* Results of work cited ODOT TPAU Level of Service for bicycles.
- 11. William Robert Farley An Analysis of Bicycle-Vehicle Interactions at Signalized Intersections with Bicycle Boxes, 2014
- 12. Chengxin Dai, Exploring Data Quality of Weigh-In-Motion Systems, 2013
- 13. Carl Olson, Safety Effectiveness of Red Light Treatments for Red Light Running, 2012
- 14. Heba Alawakiel, Leveraging Weigh-In-Motion (WIM) Data to Estimate Link-Based Heavy-Duty Vehicle Emissions, 2011
- 15. Kristie Gladhill, Exploring Traffic Safety and Urban Form in Portland, Oregon, 2011
- 16. Chengyu Dai, Exploration of Weather Impacts on Freeway Traffic Operations and Safety Using High-Resolution Weather Data", 2011.

### Undergraduate Honor's Thesis Advisor

 Xiaowei Wu, "Exploratory Safety Performance Measures for the Portland, Oregon Region" M.S. Thesis, 2010

## M.S. Thesis Committee

- 1. Alvaro Alfonso Caviedes Combita "Exploring the determinants of vulnerable road users' crash severity in State roads" Summer 2017
- 2. Travis Glick "High Resolution Transit Data" Summer 2017
- 3. Katherine Bell, Identification and Characterization of Fine Particulate Matter Hot Spots on an Urban Arterial Corridor Integrating Probe Vehicle, Traffic and Land Use Data, Fall 2013.
- 4. Patrick Singleton, A Theory of Travel Decision-Making with Applications for Modeling Active Travel Demand. Fall 2013
- 5. Kristina Currans, Spring 2013, "Improving Vehicle Trip Generation Estimations for Urban Contexts: A Method Using Household Travel Surveys to Adjust ITE Trip Generation Rates"
- 6. Courtney Slavin The Relationship Between Traffic Signals and Pedestrian, Bicyclist and Transit User Exposure in Urban Areas,
- 7. Christopher Muhs, Spring 2013, "Understanding Travel Modes to Non-work Destinations: Analysis of an Establishment Survey in Portland, Oregon"

- 8. Josh Roll, Spring 2013 "Bicycle Traffic Count Factoring: An Examination of National, State and Locally Derived Daily Extrapolation Factors"
- 9. Adam Moore, Fall 2011, "An Empirical Study of Particulate Matter Exposure for Transit Users at Bus Stop Shelters,"
- 10. Jesse Boudart, June 2011, "Bus Replacement Modeling and the Impacts of Budget Constraints, Fleet Cost Variability, and Market Changes on Fleet Costs and Optimal Bus Replacement Age, A Case Study"
- 11. Alex Bigazzi, "Traffic Congestion Mitigation as an Emissions Reduction Strategy", June 2011
- 12. Nicole Wheeler, "Multi-Criteria Trucking Freeway Performance Measures for Congested Corridors" June 2010
- 13. Meead Saberi, "Investigating Freeway Speed-Flow Relationship for Traffic Assignment Applications" June 2010
- 14. Michael Wolfe, "The Effects of Data Aggregation on Measuring Arterial Performance" M.S Thesis, Portland State University, 2009
- Craig Warden, "Geographic Analysis of Hazardous Material Road Accidents in Oregon" M.S Geography, Portland State University, 2007
- 16. Lynn Peterson, Civil and Environmental Engineering, "Sub-Area Transportation System/ Land Use Scenario Modeling," 2006

## Field Area Paper (Master's in Urban and Regional Planning), Second Reader

- 1. Delia Chi, "Safety Effectiveness of Marked Crosswalks", August 2007
- M.S Project Supervisor
  - 1. Byad Ahmed, Length Based Data Analysis for Freight Performance Measures, 2016
  - 2. Performance Implications of Bicycle Specific Treatments at Signalized Intersections, Andrew Kading.
  - 3. Safety at Intersections in Oregon A Preliminary Update of Statewide Intersection Crash Rates, Daniel R. Hazel
  - 4. Rolando Melgozza, An Evaluation of the Neighborhood Traffic Management Program of Centennial, Colorado, 2015
  - Sina Vadaei, Impacts of Replacing a Tight Diamond Interchange with a SPUI A Wilsonville Interchange Study, 2015
  - 6. Aman K. Woldetinsae, A Microsimulation of Novel Intersection Designs, 2015
  - 7. Fahad Alhajri, A Comparative Assessment of Crowded Source Travel Time Estimates: A Case Study of Bluetooth vs INRIX on a Suburban Arterial, 2014
  - 8. Saad Nayef AlMutairi, Geospatial Analysis of Rural Motor Vehicle Traffic Crashes in Oregon, 2014
  - 9. Kouros Monsef, "Bicycle Crash Analysis" M.S. Project, 2013
  - 10. Bryan Hangartner, "An Independent Evaluation of a Traffic Separator on OR99W" 2012
  - 11. Sandeep Puppala, A Preliminary Investigation of the Effects of Traffic Oscillations on Freeway Safety , March 2009
  - 12. Maisha Mahmud, "Evaluation of Truck Signal Priority at N Columbia Blvd and Martin Luther King Jr. Blvd Intersection" 2014
  - 13. Zach Horowitz, "Directional Running in the Columbia Corridor" June 2007 . **\*\*\*MS Project won the 2008 Council of University Transportation Center's (CUTC) Parker Award for Outstanding Non-thesis Masters Degree Paper in Policy and Planning.**

- 14. Suman Tasnim, "Incident Data Analysis" March 2007
- 15. Thareth Yin, "Effects of Highway Illumination Reduction On Highway Safety Performance" June 2005

M.S Project Committee Member

1. Cam Grile, Civil, Construction, and Environmental Engineering, Oregon State University, "Programming Safety Improvements on Pavement Resurfacing, Restoration, and Rehabilitation Projects" June 2003

## Mentoring and Advising

#### <u>Research Supervisor</u>

Cameron Bennett, M.S., Civil and Environmental Engineering Frank Boteng Appiah, M.S., Civil and Environmental Engineering Kelly White, M.S., Civil and Environmental Engineering Yi Wang, Ph.D., Civil and Environmental Engineering Ali Razmpa, M.S., Civil and Environmental Engineering Sam Thompson, M.S., Civil and Environmental Engineering Kirk Paulsen, M.S., Civil and Environmental Engineering Joel Barnett, M.S., Civil and Environmental Engineering Nick Foster, M.S., Civil and Environmental Engineering Tara Goddard, Ph.D., Urban Studies and Planning Korous Monsef, M.S., Civil and Environmental Engineering, 2010-2013 Sirisha Kothuri, Ph.D., Civil and Environmental Engineering, 2010-2015 Will Farley, M.S., Civil and Environmental Engineering, 2010–2014 Carl Olson, M.S., Civil and Environmental Engineering, 2010–2012 Chengxin Dai, M.S., Civil and Environmental Engineering, 2010–2013 +- Adam Moore, M.S., Civil and Environmental Engineering, 2008-2011 ^ Bryan Hangartner, M.S., Civil and Environmental Engineering, 2008-2011 Heba Alawakiel, M.S., Civil and Environmental Engineering, 2008-2011 Kristie Gladhill, M.S., Civil and Environmental Engineering, 2008-2011 Todd Johnson, M.S., Civil and Environmental Engineering, 2008–201X Chengxin Dai, B.S., Civil Engineering, 2009-2010 Xiaowei Wu, B.S., Civil Engineering, 2009-2010 Lisa Dierksen, M.S., Civil and Environmental Engineering, 2007-present \*\*\*\* 2009 Inductee in the Denise Dee Denton Hall of Fame for Women Engineers \*Rolando Melgozza, M.S., Civil and Environmental Engineering, 2008–200X Heba Alwakiel, M.S., Civil and Environmental Engineering, 2008-2010 \*Alex Bigazzi, M.S., Civil and Environmental Engineering, B.S., Civil Engineering, 2007–2010 \*Josh Crain, B.S., Civil Engineering, 2007–2009 (DKS Associates, Portland, OR) Chengyu Dai, M.S., Civil and Environmental Engineering, B.S., Civil Engineering, 2007–2010 +Myeonwoo Lim, M.S., Computer Science, 2008–2012 \*Benjamin Auffray, Visiting Scholar, L'école nationale des travaux publics d'Etat (ENTPE), France, 2006-2008 \*Max Stephens, B.S., Civil Engineering, 2006–2007

\*Michael Wolfe, M.S., Civil and Environmental Engineering, 2006-2009 \*Oren Eshel, MURP, Urban Studies and Planning, 2006–2009 Maisha Mahmud, M.S., Civil and Environmental Engineering, 2006-present (King County, WA) Sandeep Puppala, M.S., Civil and Environmental Engineering, 2006–2009 \*Enas Fayed, M.S., Civil and Environmental Engineering, 2007-2009 \*Huan Li, M.S., Civil and Environmental Engineering, 2007-present Delia Chi, MURP, Urban Studies and Planning, 2005-2007 (HNTB, Los Angeles) Kartik Srinavas, MURP, Urban Studies and Planning, 2005-2006 Suman Tasnim, M.S., Civil Engineering, 2005–2007 (Washington DOT, Vancouver) \*Zach Horowitz, M.S., Civil Engineering, 2005–2007 (David Evans and Associates) \*\*\*\*MS Project won the 2008 Council of University Transportation Center's (CUTC) Parker Award for Outstanding Non-thesis Masters Degree Paper in Policy and Planning. Kate Lyman, MURP, Urban Studies and Planning, 2005–2007 (URS Corp, Portland OR) \*Max Coffman, MURP, Urban Studies and Planning, 2005-2007 (USDOT, Washington D.C) \*Matthew Dorado, B.S., Civil Engineering, 2004-2007 (Group MacKenzie, Portland, OR) \*Aaron Breakstone, MURP, Urban Studies and Planning, 2005-2006 (Metro, Portland, OR) Thareth Yin, M.S., Civil Engineering, 2004–2005 (City of Portland, PDOT, Portland, OR) David DeLaHoussye, MURP, Urban Studies and Planning, 2004 Peter Bosa, MURP, Urban Studies and Planning, 2004-2006 (Metro, Portland, OR) Erin Wilson, MURP, Urban Studies and Planning, 2004–2006 (Parsons Brinkerhoff, Portland OR) Amber Springberg, MURP, Urban Studies and Planning, 2004-2006 (Bureau of Development Services,

- Portland OR)
- Erin Quershi, B.S., Civil Engineering, 2004-2007 (New York City)
- Tom Moes, MURP, Urban Studies and Planning, 2004–2005
- Casey Nolan, MURP, Urban Studies and Planning, 2004–2005
- Jacob Baglien, B.S., Civil Engineering, 2004-2005
- Matt Lasky, MURP, Urban Studies and Planning, 2004–2005 (Alta Planning and Design)

Carolyn Bonner, MURP, Urban Studies and Planning, 2004 (Bend, OR)

- \* Joint with R.L. Bertini
- + Joint with M. Figliozzi
- ^ Joint with K. Tufte
- Joint with A. Haire

## <u>Student Organization</u>

Advisor, Tau Beta Pi, 2022-present

Advisor, Engineers Without Borders Student Chapter, 2009-2014

Advisor, Chi Epsilon National Civil Engineering Honor Society Student Chapter, 2008-present

Advisor, Civil Engineering Honor Society Student Chapter, 2006–2008

Advisor, Institute of Transportation Engineers (ITE), Student Chapter, 2004–2009

- Traffic Bowl, Troutdale, Oregon (8 students) November 18, 2004
- Data collection RFP competition winner (\$2,000), January, 2005
- Data collection RFP competition winner (\$1,000), November, 2005
- Data collection RFP competition winner (\$1,000), January, 2006

- Data collection RFP competition winner (\$1,000), January, 2008
- Student Chapter Committee Chair, Institute of Transportation Engineers (ITE), Oregon Section, 2000-2004

#### **Continuing Education**

- Highway Safety Manual 101, Instructor, (Oregon State University Traffic Safety Series) November 2020
- Institute for Bicycle and Pedestrian Innovation, Faculty Development Workshop, August 2014, June 2015, June 2016, June 2017, June 2018, June 2019, June 2022
- Highway Safety Manual Training, Instructor (at Oregon State University with Karen Dixon) August 2012, July 2013, June 2014, March 2015, March 2016
- Highway Safety Manual Overview, Instructor (Oregon State Short Course), December 2020, November 2021
- Light Rail Transit Systems Contracting and Constructability Short Course, Portland, October 17– 19, 2005
- Light Rail Transit Systems Design Short Course, Portland, May 16–18, 2005 (37 participants, Course Organizer)
- Light Rail Transit Facility Design Short Course, Portland, September 13–15, 2004 (34 participants, Course Organizer)
- Safety Analysis and Evaluation, Oregon State University, Corvallis, Oregon, May 25-26, 2004 (16 participants, Instructor)

#### **COMMUNITY OUTREACH ACHIEVEMENTS**

Co-organizer of Friday Transportation Seminar, weekly presentations on topics from outside speakers. Typical attendance includes students, professionals and faculty. 2003-present.

Meetings with various Congressional staff members as requested. 2003-present.

- Transportation Safety class projects contributed to Willamette Pedestrian Coalition "Getting Around on Foot" Action Plan
- Featured in Oregon DOT OR-217 outreach video. Spring 2010.
- Monsere and Tufte (along with Hau Hagedorn from OTREC) hosted three groups of 5-7th graders participating in the First Lego League. Fall 2009

Bertini, R.L., Berkow, M., Wolfe, M., Monsere, C. "Arterial Performance" Webinar with City of Chicago and Chicago Transit Authority, March 6, 2009.

Panel reviewer "Teen Triple Threat" for Sheriff Roberts and the Board of Clackamas County Commissioners. March 13, 2008.

Hosted tour of "Intern Jamboree", 15 students, July 27, 2007

Hosted Oregon Urban Leadership Program Students from Catlin Gabel School (w/ R.L. Bertini), July 2007

Hosted ITS Lab Tour for ITE District 6 Annual Meeting, 50 attendees (w/ R.L. Bertini), July 16, 2007

- Hosted Oregon Section of ITE in ITS Lab, 40 attendees, February 27, 2007
- Presentation to APWA Annual Meeting, Pendleton, OR on "New University Transportation Center", October 2006
- Hosted Northwest Academic Forum Meeting Tour of ITS Lab and OTREC (w/ R.L. Bertini), April 27, 2007
- Presentation to 3rd grade class, "Portland Bridges and Transportation", McKinley Elementary, Beaverton, Oregon, June 1, 2006

- Hosted Women's Transportation Seminar (WTS) Members tour of new ITS Lab, (w/ R.L. Bertini), April 27 2006
- Session Moderator, "Main Streets with Relatively High Crash Rates", Transportation Safety Summit, City of Portland, October 3, 2005.
- Presentation to first grade class, "Understanding mapping and navigation", McKinley Elementary, Beaverton, Oregon, March 17, 2005
- Innovation Celebration, Exhibit and Research Display, Portland Business Alliance and Sense Northwest, November 17, 2004
- Attendance and representation of University at Metro Joint Policy Advisory Committee on Transportation (JPACT) and Transportation Policy Alternatives Committee (TPAC), on request (limited meetings)
- Guest Lecturer, Technical Session, Oregon Department of Transportation Region 1 Design, Portland, Oregon, September 1, 2004
- Open Meadow Alternative High School, program, Corps Restoring Urban Environments (C.R.U.E.) Program, transportation lab and field data collection, April 6, 2004.

## Media Outreach

Work on "Green Lanes" national research project featured in many print and online blogs:

- Separation Enhances Bike Lane Success, (ASCE Digital Magazine)
- <u>What 5 Cities, 17K Cyclists, and 20K Cars Tell Us About Protected Bike Lanes, (Next City, Thursday, June 12, 2014)</u>
- The Case For Protected Bike Lanes, (Fast Company, Wednesday, June 11, 2014)
- <u>Study Evaluates Protected Bike Lanes in the United States, (Planetizen, Friday, June 6, 2014)</u>
- <u>Chicago Bike Lanes: Loved by Cyclists, Feared by Drivers and Pedestrians, (Chicago</u> Magazine, Friday, June 6, 2014)
- <u>US Bike Ridership Surges With Protected Bike Lanes, Study Finds,</u> (CleanTechnica, Friday, June 6, 2014)
- Study: protected bike lanes really do increase biking, (Vox, Thursday, June 5, 2014)
- <u>"Protected bike lanes safer, better," says science.</u>, (Grist, Wednesday, June 4, 2014)
- If you build it, they will come: New study shows that bike lanes increase ridership, (Treehugger, Tuesday, June 3, 2014)
- <u>Pro-bike group shares results of safety and traffic study on bike lanes, (KMGH, Tuesday, June 3, 2014)</u>
- <u>Study praises protected bike lanes in Chicago, other cities, (RedEye Chicago, Tuesday, June 3, 2014)</u>
- <u>Study: How Chicago's Protected Bike Lanes Compare, (Chicago Sun-Times, Monday, June 2, 2014)</u>
- Study Finds People Feel Safer With 'Protected Lanes' for Bikes, (Time, Monday, June 2, 2014)
- <u>Study: Biking on L Street NW Jumps by 65 Percent After Cycletrack Installation,</u> (Washington City Paper, Monday, June 2, 2014)
- <u>Protected bike lanes aren't just safer; they can also increase cycling, (</u>CityLab, Monday, June 2, 2014)
- <u>Groundbreaking new study gives big thumbs-up to U.S. Protected Bike Lanes,</u> (Bike Portland, Monday, June 2, 2014)
- <u>Protected bicycle lanes' safety, livability benefits worth cost of removing car lanes, (The Oregonian, Monday, June 2, 2014)</u>

- Work featured in Oregonian, Portland State study says cycle track on Southwest Broadway is working -- in most ways by columnist Joe Rose Thursday, February 24, 2011
- Work featured in BikePortland.org, PSU report: Cycle track, buffered bike lanes working well, but could be improved, BikePortland.org, Posted by Jonathan Maus (Publisher/Editor) on February 24th, 2011 at 11:55 am
- Highlighted in BikePortland.org, Portlanders in D.C. for major transportation research conference, Posted by Jonathan Maus (Publisher/Editor) on January 25th, 2011 at 11:19 am
- Work featured in BikePortland.org, PSU evaluation finds that bike boxes work, BikePortland.org, Posted by Jonathan Maus (Publisher/Editor) on BikePortland.org, September 14th, 2010 at 2:51 pm
- Work featured in Oregonian, "Bike boxes results iffy, study finds" by columnist Joe Rose, January 26, 2010
- Quoted in Oregonian, "Ants go marching 1x1; we sit in traffic" by columnist Joe Rose, November 30, 2009
- Quoted in "Watch out for that right hook!" Go! Exploring the world of transportation, Iowa State University, October 2009
- Quoted in Gresham Outlook / Portland Tribune "Can you drive 55?" Portland, Oregon, July 22, 2008
- Quoted in Portland Tribune "City wants faster tows" Portland, Oregon, April 24, 2007
- Featured in news story "High rate of car crashes" KATU-TV Channel 2 Portland, Oregon, May 10, 2006
- Quoted in Portland Tribune Crash stats stump transit experts" Portland, Oregon, May 9, 2006

Quoted in the Oregonian, "Wreck ripples into mass traffic jam," December 9, 2004.

Quoted in the Oregonian, "Going Slow on Speed Change," September 8, 2004.

Interviewed by KINK 102 FM Radio, September 7, 2004. (primary interviewee R. L. Bertini)

#### SIGNIFICANT PROFESSIONAL DEVELOPMENT ACTIVITIES

Transportation Research Board, Annual Meetings, Washington, D.C., 1997-present (missed 2011, family reasons, 2021 due to COVID) ABET Symposium, Nashville, TN, April 2023 Lime E-Scooter Education and Safety Summit (invited), San Francisco, CA, July 2019 ASCE Department Chairs Meeting, Dallas, TX, June 2019 ASCE Civil Engineering Education Conference, Dallas, TX, June 2019 NACTO Designing Cities Conference, Chicago IL, October 2017 Mid-Year Meeting, Transportation Research Board Highway Safety Performance, Irvine, California. June 2017. ASCE Department Chairs Meeting, Provo, Utah, June 2017 UTC Spotlight Conference on Pedestrian and Bicyclist Safety, Washington D.C. December 2016 ASCE Department Chairs Meeting, Fayetteville, Arkansas, June 2016. North American Travel Monitoring and Exhibition Conference, Miami, Florida, May 2016 ASCE Department Chairs Meeting, Blacksburg, Virginia, June 2015. Mid-Year Meeting, Transportation Research Board Joint Meeting of Highway Safety Performance and Safety Data Analysis and Evaluation, Irvine, California. June 2015. NACTO Designing Cities Conference, San Francisco CA, October 2014 Pro Walk Pro Bike Conference, Pittsburgh PA, September 2014

- Mid-Year Meeting, Transportation Research Board Joint Meeting of Highway Safety Performance and Safety Data Analysis and Evaluation, Irvine, California. June 2015.
- ASCE Department Chairs Meeting, Las Vegas, Nevada, July 2013.

Velo-city Global, Vancouver B.C., June 26-29, 2012

- North American Travel Monitoring and Exhibition Conference, Dallas, Texas, June 4-7, 2012.
- Oregon Traffic Safety Conference, Annual Meetings, 2000-2006, 2008, 2010
- Institute of Transportation Engineers Annual Meeting, Anchorage, Alaska. July 10-13, 2011
- North American Travel Monitoring and Exhibition Conference, Seattle, Washington, June 21-24, 2010.
- Institute of Transportation Engineers Annual Meeting, Denver, Colorado. July 12-15, 2009
- Second conference on traffic management, FHWA, Office of Research and Development and USDOT Research and Innovative Technology Administration (RITA). May 2009
- Mid-Year Meeting, Transportation Research Board Task Force for the Development of the Highway Safety Manual, Irvine, California. August 20-22, 2008
- Institute of Transportation Engineers Annual Meeting, Anaheim, California. August 17-20, 2008
- North American Travel Monitoring and Exhibition Conference, Washington D.C., August 6-8, 2008.
- Mid-Year Meeting, Transportation Research Board Task Force for the Development of the Highway Safety Manual, Irvine, California. August 19-22, 2007
- Institute of Transportation Engineers District 6 Annual Meeting, Portland, Oregon. July 15-18, 2007
- International Forum on Traffic Records and Highway Safety Systems. Palm Desert, California, July 31-August 3, 2006.
- North American Travel Monitoring and Exhibition Conference, Minneapolis, Minnesota, June 4-7, 2006.
- Institute of Transportation Engineers, Quad Conference, Bellevue, WA. April 17-18, 2006
- Institute of Transportation Engineers District 6 Annual Meeting, Kalispell, Montana. July 10-13, 2005
- Mid-Year Meeting, Transportation Research Board Task Force for the Development of the Highway Safety Manual, Chicago, Illinois. June 26-29, 2005
- Institute of Transportation Engineers, Quad Conference, Vancouver, B.C. April 8-9, 2005
- Mid-Year Meeting, Transportation Research Board Task Force for the Development of the Highway Safety Manual, Portland, Oregon. June 28-30, 2004
- Institute of Transportation Engineers, Quad Conference, Portland, Oregon. April 23-24, 2004
- Institute of Transportation Engineers Annual Meeting, Seattle, Washington. August 24-27, 2003
- Mid-Year Meeting, Transportation Research Board Task Force for the Development of the Highway Safety Manual, Woods Hole, Massachusetts. June 2-4, 2003
- Northwest Transportation Training and Education and Training Alliance (NWTTEA) Traffic Operations Workshop, Portland, Oregon. September 12, 2002.
- Traffic Records Forum, Orlando, Florida. August 4-7, 2002
- Moving Forward, Taking Action Conference, Hood River, Oregon, May 2-3, 2002
- Institute of Transportation Engineers, Quad Conference, Seattle, Washington, April 8-9, 2002
- Mid-Year Meeting, Transportation Research Board Geometric Design Committees, Portland, Oregon, July 26-28, 2001
- Mid-continent Transportation Symposium, Iowa State University, Ames, Iowa. May 15-16, 2000

Crossroads 2000 Transportation Conference, Ames, Iowa. August 19-20, 1998

Eno Foundation Leadership Development Conference, Washington, D.C.. May 1998

Intelligent Transportation Society of America 8th Annual Meeting, Detroit, Michigan. May 4-6, 1998 Semi-sesquicentennial Transportation Conference, Ames, Iowa. May 13-14, 1996

# GOVERNANCE AND OTHER SERVICE FOR THE UNIVERSITY, COLLEGE AND DEPARTMENT

## University

Bargaining Team for the University, PSUFA, March 2020-Present.
Bargaining Team for the University, Graduate Employee Union (GEU), August 2016-2018.
Faculty Senator, 2015-2018, elected.
Research Advisory Council, 2013-2016, appointed by J. Fink
Excess Credit Committee, Oregon University System, chair: Melody Rose, AY 2012-13
Intercollegiate Athletics Board, 2010-11 Academic Year
Intercollegiate Athletics Board, 2009-10 Academic Year
Intercollegiate Athletics Board, 2008-09 Academic Year
Traffic Appeals Board, Chair, 2006-2007, 2007-2008 Academic Years
Traffic Appeals Board, Faculty Member, September 2005-2006

### College

MCECS David E. Wedge Faculty and Staff Award Committee, Chair 2016-present Chair, Curriculum Committee, 2021-present Chair, Search committee for Assistant Dean for Finance, 2023 Chair, Search committee for Communications Director, 2022 Search committee for Communications Director, Chair: Marcia Fischer. 2012

## Department

Chair, Civil and Environmental Engineering, September 2015-2020 Acting Chair, Civil and Environmental Engineering, December 2014-September 2015 Associate Chair, Civil and Environmental Engineering, 2013-2014 Chair of search committee for Assistant Professor (Geotechnical), 2015 Search committee for Instructor, Chair: Peter Dusicka. 2015 Search committee for Instructor, Chair: Franz Rad. 2012 Teller's Committee, 2008-09 Academic Year Organizing Member, First Annual Departmental Awards Dinner, May 22, 2008 Chi Epsilon, National Civil Engineering Honor Society, Faculty Advisor, 2008-present Civil Engineering Honor Society, Faculty Advisor, 2006-2008 Transportation Faculty Search Committee, Spring 2006. Curriculum Subcommittee, 2006 Transportation Graduate Program Reviewer, 2004–present Institute of Transportation Engineers (ITE) Student Chapter Advisor, 2004–2009 Civil Engineering Honor Society Advisor, 2006-present

### **PROFESSIONAL SERVICE**

### **Committee Membership and Activities**

ACEC Oregon Project of the Year Selection Panel, 2018.

ACEC Oregon Project of the Year Selection Panel, 2015.

City of Portland, Vision Zero Task Force, 2015-present (appointed by Commissioner Steve Novick)

Oregon Department of Transportation, Statewide Bicycle Plan Technical Committee, 2014-2016

Oregon Department of Transportation, Research Advisory Council, 2013-present (appointed by M. Buffalino)

Oregon Department of Transportation, Statewide STIP Stakeholders Group, 2009-2010 (limited participation)

Community and School Traffic Safety Partnership, Coordination Council, 2005-2008 Portland Freight Committee, 2005-2007

Oregon Highway Cost Allocation Study, Review Team Panel Member, 2004-2005 Institute of Transportation Engineers

- Publicity Chair, Local Arrangement Committee District 6 2007 Meeting, 2004-2007
- Faculty Advisor, Portland State University Student Chapter, 2004-2010
- Webmaster, Oregon Section, 2000-2007
- Student Chapter Committee Chair, Oregon Section, 2000-2004
- Vice-President, Iowa State University Student Chapter, 1997-1999

Transportation Research Board

- ACS20 Safety Performance and Analysis
   Member (April 2022-present)
- ANF20 Bicycle Transportation Member (April 2018 – present)
- ANB20 Safety Data, Analysis, and Evaluation

Co-Chair (April 2010 – April 2016)

Paper Review Subcommittee –2009-2016

Member (April 2005 – April 2016)

- ANB25T -Task Force for the Development of Highway Safety Manual
  - Task Group Chair, Chapter 6 Special Geometric Facilities, (October 2006-2010)
  - Young Member (May 2005 April 14, 2008)
  - Member (April 2003 May 2005)
  - Local Arrangements Chair, Mid-Year Meeting, Portland, Oregon, June 28-30, 2004

ABJ35 – Highway Traffic Monitoring Weigh-in-Motion Subcommittee
 Friend of committee

- ABJ25T Task Force on the Traffic Monitoring Conferences (Miami, FL)
  - Planning Committee Member (9/1/2014 4/14/2016)
- ABJ25T- Task Force on the Traffic Monitoring Conferences (Seattle, WA)
  - Planning Committee Member (9/3/2009 4/14/2010)
- Independent Review Group for Chapter 9 of the Highway Safety Manual (1 of 3 members requested by TRB, National Academy of Sciences)

Oregon Department of Transportation, Research Selection - Expert Task Group

• Traffic Safety and ITS, 2006-present

Oregon Department of Transportation, Research Technical Advisory Committee

• Update to Oregon DOT Crash Reduction Factors, 2003-2004

- Performance Measures, 2003-present
- Speed Countermeasures, 2003-2004

National Highway Cooperative Research Program

- Panel Member, Project 20-58 (2), Detailed Planning for Research on Making a Significant Improvement in Highway Safety, 2002-2003
- Member of Lead State Review Team, Project 17-18(3), Guidance for Implementation of the AASHTO Strategic Highway Safety Plan, 2001-2002
- Lead State Representative, Project 17-18(3), Guidance for Implementation of the AASHTO Strategic Highway Safety Plan, 2003

## Journal Article and Paper Review

Journal of Cycling and Micromobility Research, Editorial Board, 2023-present

Transportation Safety and Security, Editorial Board, 2007-2016

ASCE Journal of Professional Issues in Engineering Education and Practice (1 article)

Accident Analysis and Prevention (Outstanding Reviewer (2016, top 10th percentile in terms of the number of reviews completed within two years for that journal, are awarded Outstanding Reviewer status)

Transportation Research Part A, C and F

Journal of the Intelligent Transportation Systems

ASCE Journal of Transportation Engineering

Transportation Research Record, Journal of the Transportation Research Board, 1997-present

## **Other Service**

Oregon Department of Transportation, Traffic Safety Scan for Missouri DOT, June 2006 Oregon Department of Transportation, Traffic Records Assessment Interview, April 5, 2006 City of Portland, Review Team Member, Willamette River Ferry Feasibility Study, January 2006

### **MEMBERSHIPS IN PROFESSIONAL SOCIETIES**

American Society of Civil Engineers (inactive) Association of Pedestrian and Bicycle Professionals (inactive)

American Society of Engineering Education

Institute of Transportation Engineers (inactive)