CURRICULUM VITAE

Miguel Andres Figliozzi

Associate Professor

Department of Civil and Environmental Engineering

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April, 2015

Education

Ph.D.	University of Maryland College Park	2004
M.S.	University of Texas at Austin	1999
B.S. Summa cum Laude	Universidad Nacional de Córdoba, Argentina	1993

Employment

Associated Professor, Department of Civil and Environmental Engineering, College of Engineering and Computer Science, Portland State University, August 2010 - present

Assistant Professor, Department of Civil and Environmental Engineering, College of Engineering and Computer Science, Portland State University, August 2007- August 2010

Assistant Professor, Institute of Transport and Logistics, Faculty of Economics & Business, University of Sydney, 2004-2007

Graduate Research Assistant University of Texas at Austin-University of Maryland, 2000-2003

Transportation Analyst, Center for Transportation Research, Austin, Texas, 1998-1999

Graduate Research Assistant University of Texas at Austin, 1996-1998

Field Engineer, Delta Construction, 1995-1996

Financial and Technical Analyst, BPC Bank, 1994-1996

Transportation Analyst, SETEC consulting, 1993-1994

Selected Academic Honors

- OTREC (Oregon Transportation Research and Education Consortium) Researcher of the Year September
 2013
- Best Paper Transportation and Air Quality Committee (ADC20), Transportation Research Board, 2013, paper title: A Study of the Emissions Benefits of Commercial Vehicle Lane Management Strategies
- Advisor for Alex Bigazzi's 2011 Milton Pikarsky Memorial Award in the Science & Technology-MS category (best 2011 USA Master level transportation thesis entitled *Traffic Congestion Mitigation as an Emissions Reduction Strategy*.
- Best Paper Award at 2011 ITE Western District Annual Meeting, July 2011, paper Techniques to Visualize and Monitor Transit Fleet Operations Performance in Urban Areas, lead author Wei Feng (PhD student at PSU)
- Best Paper Award, Transportation Research Forum Annual Conference, Long Beach, California, USA, March 2011, paper: A Model and Case Study of the Impacts of Stochastic Capacity on Freeway Traffic Flow, lead author A Bigazzi (PSU PhD student)
- Best Paper Award, International Conference on Applications of Advanced Technologies in Transportation, paper: An Iterative Route Construction and Improvement Algorithm for the Vehicle Routing Problem with Soft Time Windows, Athens, Greece, May 2008
- INFORMS Transportation & Logistics Dissertation Award (Honorable Mention) to the best dissertation in Transportation and Logistics during 2004
- Summa Cum Laude, Universidad Nacional de Córdoba, 1993

Refereed Journal Publications

- 1. Feng W., Figliozzi, M., Bertini, R., Quantifying the Joint Impacts of Stop Locations, Signalized Intersections, and Traffic Conditions on Bus Travel Time, Forthcoming 2015 Public Transport
- 2. Bigazzi, A., Figliozzi, M., Dynamic Ventilation and Workload of Urban Bicyclists, Forthcoming 2015, Transportation Research Record.
- 3. Glick, T., Feng W., Bertini, R., Figliozzi, M., Exploring Applications of Second Generation Archived Transit Data for Estimating Performance Measures and Arterial Travel Speeds, Forthcoming 2015, Transportation Research Record.
- 4. Blanc, B., Johnson, P., Figliozzi, M., Monsere, C., Nordback, K., Leveraging Signal Infrastructure for Non-Motorized Counts in a Statewide Program: A Pilot Study, Forthcoming 2015, Transportation Research Record.
- 5. Feng W., Figliozzi, M., Bertini, R., Empirical Evaluation of Transit Signal Priority through Fusion of Heterogeneous Transit and Traffic Signal Data, Forthcoming 2015, Transportation Research Record.
- Moore, A., Figliozzi, M., and Bigazzi, A., Modeling the Impact of Traffic Conditions on the Variability of Midblock Roadside Fine Particulate Matter Concentrations on an Urban Arterial, Forthcoming 2014 Transportation Research Record.
- 7. Lindsey, G., Nordback, K., Figliozzi, M., Institutionalizing Bicycle and Pedestrian Monitoring Programs in Colorado, Minnesota, and Oregon, Forthcoming 2014 Transportation Research Record.

- 8. Tipagornwong, C., Figliozzi, M., An Analysis of the Competitiveness of Freight Tricycle Delivery Services in Urban Areas, Forthcoming 2014 Transportation Research Record.
- 9. Feng W., Figliozzi, M., Vehicle Technologies and Bus Fleet Replacement Optimization: problem properties and sensitivity analysis utilizing real-world data, Public Transport, 2014, v.6, pp. 137-157
- 10. Bigazzi, A., Figliozzi, M., Review of Urban Bicyclists' Intake and Uptake of Traffic-Related Air Pollution, Transport Reviews, 2014, Volume 34, N.2, pp 221-245.
- 11. Figliozzi, M., Johnson, P., Monsere, C., Nordback, K., Methodology to Characterize Ideal Short-term Counting Conditions and Improve AADT Estimation Accuracy, Journal of Transportation Engineering, 2014, v.5, pp. 137-157
- 12. Bigazzi, A., Figliozzi, M., Clifton, C., Traffic Congestion and Air Pollution Exposure for Motorists: Comparing Exposure Duration and Intensity, International Journal of Sustainable Transportation, 2014.
- 13. Figliozzi, M., Wheeler, N., Monsere, C., A Methodology to Estimate Bicyclists' Acceleration and Speed Distributions at Signalized Intersections, 2013, Transportation Research Record 2387, pp. 66–75.
- 14. Thompson, S., Monsere, M., Figliozzi, M., Koonce, P., Obery, G., Bicycle-Specific Traffic Signals: Results from a State of the Practice Review, 2013, Transportation Research Record 2387, pp. 1–9.
- 15. Bell, K., Figliozzi, M., Evaluation of Smart Phone Weight-Mile Tax Truck Data for Supporting Freight Modeling, Performance Measures and Planning, 2013, Transportation Research Record 2378, pp. 22-31.
- 16. Bigazzi, A., Figliozzi, M., A Study of the Emissions Benefits of Commercial Vehicle Lane Management Strategies, 2013, Transportation Research Record 2341, pp. 43–52.
- 17. Bell, K., Kothuri, S., Figliozzi, M., Emission Model Sensitivity Analysis: The Value of Smart Phone Weight-Mile Tax Truck Data, 2013, v.54, paper nº8, European Transport \ Transporti Europei.
- 18. Bigazzi, A., Figliozzi, M., The Role of Heavy-Duty Freight Vehicles in Reducing Emissions on Congested Freeways with Elastic Travel Demand Functions, 2013, Transportation Research Record 2340, pp. 84–94.
- 19. Slavin, C., Figliozzi, M., The Impact of Traffic Signal Timing on Sidewalk Level Particulate Matter Concentrations, 2013, Transportation Research Record 2340, pp. 29–37.
- 20. Moore, A., Figliozzi, M., A Statistical Study of the Variables Associated with Particulate Matter Exposure Levels at Bus Shelters, 2013, Transportation Research Record 2341, pp 83-90.
- 21. Bigazzi, A., Figliozzi, M., Marginal Costs of Freeway Traffic Congestion with On-Road Pollution Exposure Externality, Transportation Research Part A, 2013, Volume 57, pp 12-24.
- 22. Slavin, C., Feng, W., Figliozzi, M., Koonce, P., 2013, A Statistical Study of the Impacts of SCATS Adaptive Traffic Signal Control on Traffic and Transit Performance, Transportation Research Record 2356, pp. 117-126.
- 23. Albright, E., Figliozzi, M., 2012, Factors Influencing Effectiveness of Transit Signal Priority and Late-Bus Recovery at Signalized Intersections, Transportation Research Record 2311, pp 186-197.
- 24. Feng, W., Figliozzi, M., Economic and Technological Analysis of the Key Factors Affecting the Competitiveness of Electric Commercial Vehicles, Transportation Research Part C (new technologies), Volume 26, p. 135-145, 2012.
- 25. Davis, B., Figliozzi, M., A Methodology to Evaluate the Logistical Competitiveness of Electric Trucks in the LTL Delivery Industry, Transportation Research Part E (logistics and transportation), Volume 49, Issue 1, p. 8-23, 2012.
- 26. Bigazzi, A., Figliozzi, M., Impacts of freeway traffic conditions on in-vehicle exposure to ultrafine particulate matter, Atmospheric Environment, Volume 60, p. 495-503, 2012.

- 27. Bigazzi, A., Figliozzi, M., Congestion and Emissions Mitigation: A Comparison of Capacity, Demand, and Vehicle Based Strategies, 2012 Transportation Research Part D (transport and environment), Volume 17, p. 538-547, 2012.
- 28. Figliozzi, M., The time dependent vehicle routing problem with time windows: Benchmark problems, an efficient solution algorithm, and solution characteristics, Transportation Research Part E, Volume 48, Issue 3, May 2012, p. 616-636
- 29. Moore, A., Figliozzi, M., Monsere, C., Bus Stop Air Quality: An Empirical Analysis of Exposure to Particulate Matter at Bus Stop Shelters, 2012, Transportation Research Record 2270, pp 76-86.
- 30. Unnikrishnan, A., Shahabi M., Figliozzi, M., A Model and Heuristic Solution Approach for the Capacitated Freight On-line Network Assignment with Transportation Disruptions and Recourse, Transportation Research Record 2269, p. 11-19
- 31. Boudart, J., Figliozzi, M., A Model and Study of the Key Variables Affecting Bus Replacement Age and Lifecycle Costs, 2012, Transportation Research Record 2274, pp 109-113.
- 32. Figliozzi, M.A., The Impacts of Congestion on Time-definitive Urban Freight Distribution Networks CO2 Emission Levels, 2011, Transportation Research part C., v.19 (5), p. 766–778
- 33. Figliozzi, M.A, Boudart, J., and Feng, W., Economic and Environmental Optimization of Vehicle Fleets: A Case Study of the Impacts of Policy, Market, Utilization, and Technological Factors, 2011, Transportation Research Record 2252, p. 1-6.
- 34. Wheeler, N. and Figliozzi, M., Multi-Criteria Trucking Freeway Performance Measures in Congested Corridors, 2011 Transportation Research Record 2224, p. 82-93.
- 35. Walker, L., Figliozzi, M.A, Haire, A., MacArthur, J., Climate Action Plans and Long-range Transportation Plans in the Pacific Northwest, 2011 Transportation Research Record 2252, p. 118-126.
- 36. Unnikrishnan, A., and Figliozzi, M.A, An On-line Freight Network Assignment Model with Transportation Disruptions and Recourse, 2011 Transportation Research Record 2224, p. 17-25.
- 37. Walker, L., Figliozzi, M.A, Haire, A., MacArthur, J., Identifying Surface Transportation Vulnerabilities and Risk Assessment Opportunities under Climate Change, 2011 Transportation Research Record 2244, p. 41-49.
- 38. Kendrick, C., Moore A., Haire, A., Bigazzi, A., Figliozzi, M.A, Monsere, C., and George, L., The Impact of Bicycle Lane Characteristics on Bicyclists' Exposure to Traffic-Related Particulate Matter, 2011

 Transportation Research Record 2247, p. 24-32.
- 39. Figliozzi M.A, Wheeler, N., Albright, E., Walker, L., Sarkar, S., and Rice, D., Algorithms to Study the Impacts of Travel Time Reliability along Multi-Segment Trucking Freight Corridors, 2011 Transportation Research Record 2224, p. 26-34.
- 40. Figliozzi, M.A., An Iterative Route Construction and Improvement Algorithm for the Vehicle Routing Problem with Soft Time Windows, 2010, Transport Research Part C Advanced Technologies, 18(5), p. 668-679.
- 41. Figliozzi, M.A., Vehicle Routing Problem for Emissions Minimization, 2010, Transportation Research Record 2197, p.1-7
- 42. Conrad, R., Figliozzi, M.A., Algorithms to Quantify the Impacts of Congestion on Time-Dependent Real-World Urban Freight Distribution Networks, 2010, Transportation Research Record 2168, p.104-113.
- 43. Figliozzi, M.A., The Impacts of Congestion on Commercial Vehicle Tours Characteristics and Costs, Transportation Research Part E –Transport and Logistics, 2010, 46(4): p. 496-506.

- 44. Chang, H., Lafrenz, M, Figliozzi M., Platman, D., Pederson, C. Potential Impacts of Climate Change on Flood-Induced Travel Disruptions: A Case Study of Portland, Oregon, USA, Annals of the Association of American Geographers, Vol 100, No. 4 (2010): 938-952.
- 45. Zhang, Z. & Figliozzi, M.A., A Survey of Chinese Importers and Exporters: China's Logistics Industry Developments and the Impacts of Transportation System Performance on Supply Chain Costs and Operations, Transport Reviews, 2010, 30(2): 179-194.
- 46. Figliozzi, M.A., Planning Approximations to the average length of vehicle routing problems with time window constraints. Transportation Research Part B Methodological, 2009, 43(4): p. 438-447.
- 47. Greaves, S. and M. Figliozzi, Urban Commercial Vehicle Tour Data Collection Using Passive GPS Technology: Issues And Potential Applications. Transportation Research Record 2049, 2008: p. 158-166.
- 48. Figliozzi, M.A., Planning Approximations to the Average Length of Vehicle Routing Problems with Varying Customer Demands and Routing Constraints, Transportation Research Record 2089, 2008: p. 1-8.
- 49. Figliozzi, M.A., H.S. Mahmassani, and P. Jaillet, Pricing in Dynamic Vehicle Routing Problems. Transportation Science, 2007. 41(3): p. 302.
- 50. Hensher, D. and M.A. Figliozzi, Behavioural insights into the modelling of freight transportation and distribution systems. Transportation Research Part B -Methodological, 2007. 41(9): p. 921-923.
- 51. Figliozzi, M.A., Analysis of the efficiency of urban commercial vehicle tours: Data collection, methodology, and policy implications. Transportation Research Part B-Methodological, 2007, 41(9): p. 1014-1032.
- 52. Figliozzi, M.A., Analysis and Evaluation of Incentive Compatible Dynamic Mechanisms for Carrier Collaboration. Transportation Research Record 1966, 2006: p. 34-40.
- 53. Figliozzi, M.A., H. Mahmassani, and P. Jaillet, Quantifying Opportunity Costs in Sequential Transportation Auctions for Truckload Acquisition. Transportation Research Record 1964, 2006: p. 247-252.
- 54. Figliozzi, M.A., Modeling the Impact of Technological Changes on Urban Commercial Trips by Commercial Activity Routing Type. Transportation Research Record 1964, 2006: p. 118-126.
- 55. Figliozzi, M.A., H. Mahmassani, and P. Jaillet, Auction Settings and Performance of Electronic Marketplaces for Truckload Transportation Services. Transportation Research Record 1906, 2005: p. 89-97.
- 56. Figliozzi, M.A., H. Mahmassani, and P. Jaillet, Competitive Performance Assessment of Dynamic Vehicle Routing Technologies Using Sequential Auctions. Transportation Research Record 1882, 2004(1882): p. 10-18.
- 57. Figliozzi, M.A., H. Mahmassani, and P. Jaillet, Framework for study of carrier strategies in auction-based transportation marketplace. Transportation Research Record 1854, 2003(1854): p. 162-170.
- 58. Figliozzi, M.A., R. Harrison, and J.P. McCray, Estimating Texas-Mexico North American free trade agreement truck volumes. Transportation Research Record 1763, 2001(1763): p. 42-47.

Refereed Journal Publications (under review)

- 1. Bigazzi, A., Figliozzi, M., Wentai, L., Pankow, J., Breath Levels of Volatile Organic Compounds (VOCs) as Indicators of Traffic-Dependent Uptake by Bicyclists
- 2. Tipagornwong, C., Figliozzi, M., To Park Legally or Illegally? An Analysis of the Impacts of Commercial Vehicle Parking Availability on Service Costs and Parking Behavior
- 3. Bigazzi, A., Figliozzi, M., Roadway Determinants of Bicyclist Exposure Concentrations.

4. Tipagornwong, C., Figliozzi, M., The Impact of Traffic Variables on Stopping Distance at an Unsignalized Crosswalk

Dissertation

"Analysis of Spot Truckload Procurement Markets Using Sequential Auctions", University of Maryland, College Park, 2004, Advisors: Hani S. Mahmassani and Patrick Jaillet, Committee: Bruce Golden, Ali Haghani, Elise Miller-Hooks

Transportation & Logistics Dissertation Award 2004, Transportation and Logistics Society, Institute for Operations Research and Management Science (INFORMS) – The most prestigious and internationally recognized dissertation award in Transportation and Logistics.

Reviewed Conference Proceedings

(Acceptance based on full paper)

- 1. Feng W., Figliozzi, M., Bertini, R., Quantifying the Joint Impacts of Stop Locations, Signalized Intersections, and Traffic Conditions on Bus Travel Time, Proceedings of the 94th Transportation Research Board Annual Meeting, Washington DC. USA, January 2015.
- 2. Feng W., Figliozzi, M., Bertini, R., Empirical Evaluation of Transit Signal Priority through Fusion of Heterogeneous Transit and Traffic Signal Data, Proceedings of the 94th Transportation Research Board Annual Meeting, Washington DC. USA, January 2015.
- 3. Tipagornwong, C., Figliozzi, M., To Park Legally or Illegally? An Analysis of the Impacts of Commercial Vehicle Parking Availability on Service Costs and Parking Behavior, Proceedings of the 94th Transportation Research Board Annual Meeting, Washington DC. USA, January 2015.
- 4. Bigazzi, A., Figliozzi, M., Roadway Determinants of Bicyclist Exposure Concentrations, Proceedings of the 94th Transportation Research Board Annual Meeting, Washington DC. USA, January 2015.
- 5. Bigazzi, A., Figliozzi, M., Dynamic Ventilation and Workload of Urban Bicyclists, Proceedings of the 94th Transportation Research Board Annual Meeting, Washington DC. USA, January 2015.
- 6. Glick, T., Feng W., Bertini, R., Figliozzi, M., Exploring Applications of Second Generation Archived Transit Data for Estimating Performance Measures and Arterial Travel Speeds, Proceedings of the 94th Transportation Research Board Annual Meeting, Washington DC. USA, January 2015.
- 7. Feng W., Figliozzi, M., Empirical Analysis of Bus Bunching Characteristics Based on Bus AVL/APC Data,
 Proceedings of the 94th Transportation Research Board Annual Meeting, Washington DC. USA, January 2015.
- 8. Blanc, B., Johnson, P., Figliozzi, M., Monsere, C., Nordback, K., Leveraging Signal Infrastructure for Non-Motorized Counts in a Statewide Program: A Pilot Study, Proceedings of the 94th Transportation Research Board Annual Meeting, Washington DC. USA, January 2015.
- 9. Figliozzi, M., Johnson, P., Monsere, C., Nordback, K., A Methodology to Characterize Ideal Short-term Counting Conditions and Improve AADT Estimation Accuracy, Proceedings of the 93rd Transportation Research Board Annual Meeting, Washington DC. USA, January 2014.

- 10. Bigazzi, A., Luo, W., Figliozzi, M., Pankow, J., Isabelle, L., Measuring urban bicyclists' uptake of traffic-related volatile organic compounds using ambient and breath concentrations, Proceedings of the 93rd
 Transportation Research Board Annual Meeting, Washington DC. USA, January 2014.
- 11. Tipagornwong, C., Figliozzi, M., Analysis of Competitiveness of Freight Tricycle Delivery Services in Urban Areas, Proceedings of the 93rd Transportation Research Board Annual Meeting, Washington DC. USA, January 2014.
- 12. Moore, A., Figliozzi, M., Bigazzi, A., Modeling Impact of Traffic Conditions on Variability of Midblock Roadside Fine Particulate Matter Concentrations on an Urban Arterial, Proceedings of the 93rd
 Transportation Research Board Annual Meeting, Washington DC. USA, January 2014.
- 13. Lindsey, G., Nordback, K., Figliozzi, M., Institutionalizing Bicycle and Pedestrian Monitoring Programs in Three States, Proceedings of the 93rd Transportation Research Board Annual Meeting, Washington DC. USA, January 2014.
- 14. Bell, K., Figliozzi, M., Moore, A., Bigazzi, A., Identification and characterization of PM2.5 and VOC hot spots on an arterial corridor by integrating probe vehicle, traffic and land use data, Proceedings of the 93rd Transportation Research Board Annual Meeting, Washington DC. USA, January 2014.
- 15. Moore, A., Figliozzi, M., Analyzing the Impacts of Traffic Levels and Adaptive Traffic Control on Intersection and Mid-block Air Quality Speaker, Western ITE Conference Proceedings, July 14-17, 2013, Phoenix, Arizona.
- 16. Feng, W., Figliozzi, M., Analyzing the Impacts of Traffic Levels, Adaptive Traffic Signal System, Transit Signal Priority and Bus Stop, Western ITE Conference Proceedings, July 14-17, 2013, Phoenix, Arizona.
- 17. Feng, W., Figliozzi, M., Analyzing the Impacts of Traffic Levels, Adaptive Traffic Signal System, Transit Signal Priority and Bus Stop, Western ITE Conference Proceedings, July 14-17, 2013, Phoenix, Arizona.
- 18. Bell, K., Kothuri, S., Figliozzi, M., A New Methodology to Utilize Smart Phone Weight-Mile Truck Data to Estimate Freight Emissions, Western ITE Conference Proceedings, July 14-17, 2013, Phoenix, Arizona.
- 19. Paulsen K., Thompson, S., Figliozzi, M., Monsere, C., A Comparison of Bicyclists' Performance at Urban, Surburban, and Dedicated Path Intersection in Oregon, Western ITE Conference Proceedings, July 14-17, 2013, Phoenix, Arizona.
- 20. Bigazzi, A., Figliozzi, M., Portland Ace: A Low-Cost Mobile Device for Assessing Bicyclists' Exposure to Air Pollution, Western ITE Conference Proceedings, July 14-17, 2013, Phoenix, Arizona.
- 21. Thompson, S., Paulsen K., Monsere, C., Figliozzi, M., A Study of Bicycle Signal Compliance Employing Video Footage, Western ITE Conference Proceedings, July 14-17, 2013, Phoenix, Arizona.
- 22. Johnson, Figliozzi, M., The Effects of Weather on Cycling Demand and Its Implications for Data Collection Efforts, Western ITE Conference Proceedings, July 14-17, 2013, Phoenix, Arizona.
- 23. Bigazzi, A., Figliozzi, M., A Study of the Emissions Benefits of Commercial Vehicle Lane Management Strategies, Proceedings of the 92st Transportation Research Board Annual Meeting, Washington DC. USA, January 2013.
- 24. Slavin, C., Figliozzi, M., The Impact of Traffic Signal Timing on Sidewalk Level Particulate Matter Concentrations, Proceedings of the 92st Transportation Research Board Annual Meeting, Washington DC. USA, January 2013.

- 25. Slavin, C., Feng, W., Figliozzi, M., Koonce, P., A Statistical Study of the Impacts of SCATS Adaptive Traffic Signal Control on Traffic and Transit Performance, Proceedings of the 92st Transportation Research Board Annual Meeting, Washington DC. USA, January 2013.
- 26. Bell, K., Figliozzi, M., Evaluation of Smart Phone Weight-Mile Tax Truck Data for Supporting Freight Modeling, Performance Measures and Planning, Proceedings of the 92st Transportation Research Board Annual Meeting, Washington DC. USA, January 2013.
- 27. Moore, A., Figliozzi, M., A Statistical Study of the Variables Associated with Particulate Matter Exposure Levels at Bus Shelters, Proceedings of the 92st Transportation Research Board Annual Meeting, Washington DC. USA, January 2013.
- 28. Figliozzi, M., Wheeler, N., Monsere, M., A Methodology to Estimate Bicyclists' Acceleration and Speed Design Values to Calculate Minimum Green Times at Signalized Intersections, Proceedings of the 92st Transportation Research Board Annual Meeting, Washington DC. USA, January 2013.
- 29. Bigazzi, A., Figliozzi, M., The Role of Heavy-Duty Freight Vehicles in Reducing Emissions on Congested Freeways with Elastic Travel Demand Functions, Proceedings of the 92st Transportation Research Board Annual Meeting, Washington DC. USA, January 2013.
- 30. Thompson, S., Monsere, M., Figliozzi, M., Koonce, P., Obery, G., Bicycle-Specific Traffic Signals: Results from a State of the Practice Review, Proceedings of the 92st Transportation Research Board Annual Meeting, Washington DC. USA, January 2013.
- 31. Bigazzi, A., Figliozzi, M., Marginal Costs of Freeway Traffic Congestion with On-Road Pollution Exposure Externality, Proceedings of the 92st Transportation Research Board Annual Meeting, Washington DC. USA, January 2013.
- 32. Davis, B., Figliozzi, M., Lifecycle Evaluation of Urban Commercial Electric Vehicles and their Potential Emissions Reductions Impacts, Proceedings of the 92st Transportation Research Board Annual Meeting, Washington DC. USA, January 2013.
- 33. Moore, A., Figliozzi, M., School Commute Air Quality: Understanding Variation in Pollutant Exposure for Students Traveling to School by Auto, Bus, or Walking, Proceedings of the 92st Transportation Research Board Annual Meeting, Washington DC. USA, January 2013.
- 34. Bigazzi, A., Figliozzi, M., Marginal Costs of Freeway Traffic Congestion with On-Road Pollution Exposure Externality, Proceedings of the 92st Transportation Research Board Annual Meeting, Washington DC. USA, January 2013.
- 35. Davis, B., Figliozzi, M., Evaluating the Cost and Environmental Implications of Commercial Electric Vehicles in the LTL Delivery Industry, Western ITE Conference Proceedings, June 24-27, 2012, Santa Barbara, California.
- 36. Bell, K., Figliozzi, M., A Smart Phone Truck Data Application to Develop Freight Performance Measures and Support Transportation Planning, Western ITE Conference Proceedings, June 24-27, 2012, Santa Barbara, California.
- 37. Feng, W., Figliozzi, M., Developing a bus service reliability evaluation framework using archived AVL/APC Data, Western ITE Conference Proceedings, June 24-27, 2012, Santa Barbara, California.
- 38. Slavin, C., Feng, W., Figliozzi, M., An Evaluation of the Impacts of an Adaptive Coordinated Traffic Signal System on Transit Performance: a case study on Powell Boulevard (Portland, Oregon), Proceedings of the Conference on Advanced Systems for Public Transport (CASPT), June 2012, Santiago, Chile.

- 39. Albright, E., Figliozzi, M., Analysis of the Impacts of Transit Signal Priority on Bus Bunching and Performance, Proceedings of the Conference on Advanced Systems for Public Transport (CASPT), June 2012, Santiago, Chile.
- 40. Moore, A., Figliozzi, M., Monsere, C., An Empirical Study of Particulate Matter Exposure for Passengers Waiting at Bus Stop Shelters in Portland, Oregon, USA, Analysis of the Impacts of Transit Signal Priority on Bus Bunching and Performance, Proceedings of the Conference on Advanced Systems for Public Transport (CASPT), June 2012, Santiago, Chile.
- 41. Feng, W., Figliozzi, Bus Fleet Type and Age Replacement Optimization: A case study utilizing King County Metro fleet data, Proceedings of the Conference on Advanced Systems for Public Transport (CASPT), June 2012, Santiago, Chile.
- 42. Shabani, K., Figliozzi, M., A Statistical Study and Comparison of Freight Trends in Oregon and the U.S., Proceedings of the 91st Transportation Research Board Annual Meeting, Washington DC. USA, January 2012.
- 43. Moore, A., Figliozzi, M., Monsere, C., Bus Stop Air Quality: An Empirical Analysis of Exposure to Particulate Matter at Bus Stop Shelters, Proceedings of the 91st Transportation Research Board Annual Meeting, Washington DC. USA, January 2012.
- 44. Bigazzi, A., Kendrick, C., Figliozzi, M., An Empirical Study of the Impact of Freeway Traffic on in-Vehicle Exposure to Ultrafine Particulate Matter, Proceedings of the 91st Transportation Research Board Annual Meeting, Washington DC. USA, January 2012.
- 45. Bigazzi, A., Figliozzi, M., Do Congestion-based Roadway Performance Measures Reflect Emissions Trends?, Proceedings of the 91st Transportation Research Board Annual Meeting, Washington DC. USA, January 2012.
- 46. Shahabi M., Unnikrishnan, A., Figliozzi, M., A Model and Heuristic Solution Approach for the Capacitated Freight On-line Network Assignment with Transportation Disruptions and Recourse, Proceedings of the 91st Transportation Research Board Annual Meeting, Washington DC. USA, January 2012.
- 47. Davis, B., Figliozzi, M., A Model to Evaluate the cost comptetiveness and limititations of Electric Delivery Trucks in LTL Deliveries, Proceedings of the 91st Transportation Research Board Annual Meeting, Washington DC. USA, January 2012.
- 48. Albright, E., Figliozzi, M., Leveraging AVL/APC Bus Data to Determine Factors Influencing Transit Signal Priority Effectiveness, Proceedings of the 91st Transportation Research Board Annual Meeting, Washington DC. USA, January 2012.
- 49. Farhana, A., Rose, G., Figliozzi, M., Jakob, C., Commuter Cyclist's Sensitivity to Changes in Weather: Insight from Two Cities withDifferent Climatic Conditions, Proceedings of the 91st Transportation Research Board Annual Meeting, Washington DC. USA, January 2012.
- 50. Boudart, J., Figliozzi, M., A Model and Study of the Key Variables Affecting Bus Replacement Age and Lifecycle Costs, Proceedings of the 91st Transportation Research Board Annual Meeting, Washington DC. USA, January 2012.
- 51. Feng, W., Figliozzi, M., Electric Commercial Vehicles: A study of economic and technological factors affecting their competitiveness, Proceedings of the 91st Transportation Research Board Annual Meeting, Washington DC. USA, January 2012.
- 52. Feng, W., Figliozzi, M., Electric Commercial Vehicles: A study of economic and technological factors affecting their competitiveness, Proceedings of the 91st Transportation Research Board Annual Meeting, Washington DC. USA, January 2012.

- 53. Feng, W., Figliozzi, M., Statistical Analysis of Bus Transit Performance Measures, Proceedings of ICCTP 2011, 11th International Conference of Chinese Transportation Professionals, Nanjing, China, August 14-17, 2011.
- 54. Bigazzi, A., Figliozzi, M., The Impacts of Stochastic Capacity on Freeway Traffic Flow Benefits and Costs: a model and a case study from Portland, Oregon, Proceedings 2011 IEEE Forum on Integrated and Sustainable Transportation Systems (FISTS), Vienna, Austria, June 29 July 1, 2011.
- 55. Feng, W., Figliozzi, M., Conventional vs Electric Commercial Vehicle Fleets: a Case Study of Economic and Technological Factors Affecting the Competitiveness of Electric Commercial Vehicles in the USA, Proceedings VII City Logistics Conference, Mallorca, Spain, June 2011.
- 56. Shabani, K., Figliozzi, M., A Statistical Study and Comparison of Freight Trends in Oregon and the U.S., Western ITE Conference Proceedings, July 10-13, 2011, Anchorage, Alaska.
- 57. Slavin, C., Figliozzi, M., A Multimodal Evaluation of a Corridor Traffic Signal Performance: a case study on Powell Boulevard (Portland, Oregon), Western ITE Conference Proceedings, July 10-13, 2011, Anchorage, Alaska.
- 58. Albright, E., Figliozzi, M., Integration of Multi-modal Transportation Data Sets to Provide Transit Signal Priority Stop-level Performance Measures, Western ITE Conference Proceedings, July 10-13, 2011, Anchorage, Alaska.
- 59. Moore, A., Figliozzi, M., Bus Stop Air Quality: An Empirical Analysis of Shelter Orientation Effects on Transit User's Exposure to Particulate Matter, Western ITE Conference Proceedings, July 10-13, 2011, Anchorage, Alaska.
- 60. Conrad, R., Figliozzi, M., The Recharging Vehicle Routing Problem, Conference Proceedings 61st Annual Conference IIE, May 21-25, 2011, Reno, Nevada.
- 61. Feng, W., Figliozzi, M., Using Archived Automatic Vehicle Location and Automatic Passenger Count Bus Data to Identify Spatial-Temporal Causes of Bus Bunching, Proceedings of the 90th Transportation Research Board Annual Meeting, Washington DC. USA, January 2011.
- 62. Feng, W., Figliozzi, M., Hosteler, K., Techniques to Visualize and Monitor Transit Fleet Operational Performance in Urban Areas, Proceedings of the 90th Transportation Research Board Annual Meeting, Washington DC. USA, January 2011.
- 63. Rose, G., Farhana, A., Figliozzi, M., Jakob, C., Quantifying and Comparing Effects of Weather on Bicycle Demand in Melbourne, Australia, and Portland, Oregon, Proceedings of the 90th Transportation Research Board Annual Meeting, Washington DC. USA, January 2011.
- 64. 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, Proceedings of the 90th Transportation Research Board Annual Meeting, Washington DC. USA, January 2011.
- 65. Bigazzi, A., Figliozzi, M., Analysis of the Relative Efficiency of Freeway Congestion Mitigation as an Emission Reduction Strategy, Proceedings of the 90th Transportation Research Board Annual Meeting, Washington DC. USA, January 2011.
- 66. Bigazzi, A., Figliozzi, M., Clifton, K., Motorists' Exposure to Traffic-Related Air Pollution: Modeling the Effects of Traffic Characteristics, Proceedings of the 90th Transportation Research Board Annual Meeting, Washington DC. USA, January 2011.
- 67. Figliozzi, M.A, Boudart, J., and Feng, W., Economic and Environmental Optimization of Vehicle Fleets: A Case Study of the Impacts of Policy, Market, Utilization, and Technological Factors, Proceedings of the 90th Transportation Research Board Annual Meeting, Washington DC. USA, January 2011.

- 68. Wheeler, N. and Figliozzi, M., Multi-Criteria Trucking Freeway Performance Measures in Congested Corridors, Proceedings of the 90th Transportation Research Board Annual Meeting, Washington DC. USA, January 2011.
- 69. Walker, L., Figliozzi, M.A, Haire, A., MacArthur, J., Climate Action Plans and Long-range Transportation Plans in the Pacific Northwest, Proceedings of the 90th Transportation Research Board Annual Meeting, Washington DC. USA, January 2011.
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- 71. Walker, L., Figliozzi, M.A, Haire, A., MacArthur, J., Identifying Surface Transportation Vulnerabilities and Risk Assessment Opportunities under Climate Change, Proceedings of the 90th Transportation Research Board Annual Meeting, Washington DC. USA, January 2011.
- 72. Kendrick, C., Moore A., Haire, A., Bigazzi, A., Figliozzi, M.A, Monsere, C., and George, L., The Impact of Bicycle Lane Characteristics on Bicyclists' Exposure to Traffic-Related Particulate Matter, Proceedings of the 90th Transportation Research Board Annual Meeting, Washington DC. USA, January 2011.
- 73. Figliozzi M.A, Wheeler, N., Albright, E., Walker, L., Sarkar, S., and Rice, D., Algorithms to Study the Impacts of Travel Time Reliability along Multi-Segment Trucking Freight Corridors, Proceedings of the 90th Transportation Research Board Annual Meeting, Washington DC. USA, January 2011.
- 74. Wheeler, N., Figliozzi, M., Analysis of the Impacts of Congestion on Freight Movements in Portland Metro Area, Western ITE Conference Proceedings, June 27-30, 2010, San Francisco, California.
- 75. Conrad, R., Wheeler, N., Figliozzi, M., A Statistical Analysis of Bicycle Rider Performance: The Impact of Gender on Riders' Performance at Signalized Intersections in Portland, OR, Western ITE Conference Proceedings, June 27-30, 2010, San Francisco, California.
- 76. Haire, A., Figliozzi, M.A., Walker, L., MacArthur, J., Preparing Transportation Infrastructure for the Consequences of Climate Change: A Review of Canadian and US Efforts, 8th International Conference Proceedings Canadian Society of Civil Engineers, Winnipeg, Manitoba, Canada, June 2010.
- 77. Walker, L., Figliozzi, M.A., Haire, A., MacArthur, J., Climate Action Plans and Long-Range Transportation Plans in the Pacific Northwest: a review of the state of practice, Proceedings Transportation Research Forum, Washington DC, March 2010.
- 78. Figliozzi, M.A., Emissions Vehicle Routing Problem, Proceedings of the 89th Transportation Research Board Annual Meeting, Washington DC. USA, January 2010.
- 79. Wheeler, N., Conrad, R., Figliozzi, M.A., A Statistical Analysis of the Impact of Gender on Bicycle Rider Performance: The impact of age and gender on riders' performance at signalized intersections, Proceedings of the 89th Transportation Research Board Annual Meeting, Washington DC. USA, January 2010.
- 80. Figliozzi, M.A., Melgoza, R., D., Ruelas, Chang, H., Lafrenz, M., Platman, D., Quantifying and Analyzing the Costs of Climate Change on Local Transportation Infrastructure: a case study from Portland, Oregon, Proceedings of the 89th Transportation Research Board Annual Meeting, Washington DC. USA, January 2010.
- 81. Figliozzi, M.A., Zhang, Z., A Study of Transportation Disruption Causes and Costs: a Case Study from Sydney, Proceedings of the 89th Transportation Research Board Annual Meeting, Washington DC. USA, January 2010.

- 82. Conrad, R., Figliozzi, M., Algorithms and Methodologies to Analyze and Quantify the Impacts of Congestion on Time-dependent Real-world Urban Networks, Proceedings of the 89th Transportation Research Board Annual Meeting, Washington DC. USA, January 2010.
- 83. Figliozzi, M.A., Emissions Vehicle Routing Problem. Proceedings 3rd Annual National Urban Freight Conference, Long Beach, CA. October, 2009.
- 84. Figliozzi, M.A., Zhang, Z., A Study of Transportation Disruption Causes and Costs: a Case Study from Sydney. Proceedings 3rd Annual National Urban Freight Conference, Long Beach, CA. October, 2009.
- 85. Wheeler, N., Figliozzi, M.A., Analysis of the Impacts of Congestion on Freight Movements in the Portland Metropolitan Area: A methodology to analyze and estimate the impacts of recurring and non-recurring congestion on commercial vehicles combining GPS, traffic sensor, and incident data, Long Beach, CA. October, 2009.
- 86. Figliozzi, M.A., Tufte, K., Fletcher, S. A Integration and Visualization Challenges and Opportunities for Online Freight Data Mapping, Proceeding of the 50th Transportation Research Forum, Portland OR USA, March 2009.
- 87. Figliozzi, M.A., Zhang, Z., A Study of Transportation Disruption Causes and Costs in Containerized Maritime, Proceeding of the 50th Transportation Research Forum, Portland OR USA, March 2009.
- 88. Figliozzi, M.A., Planning Approximations to the average length of vehicle routing problems with time window constraints. Proceeding of the 88th Transportation Research Board Annual Meeting, Washington DC. USA, January 2009.
- 89. Figliozzi, M.A., A Route Improvement Algorithm for the Vehicle Routing Problem with Time Dependent Travel Times. Proceeding of the 88th Transportation Research Board Annual Meeting, Washington DC. USA, January 2009.
- 90. Figliozzi, M.A. & Tufte, K. A Prototype for Freight Data Integration and Visualization using Online Mapping Software: Issues, Applications, and Implications for Data Collection Procedures. Proceeding of the 88th Transportation Research Board Annual Meeting, Washington DC. USA, January 2009.
- 91. Zhang, Z. & Figliozzi, M.A. A Survey of Chinese Importers and Exporters: China's Logistics Industry Developments and the Impacts of Transportation System Performance on Supply Chain Costs, Proceeding of the 88th Transportation Research Board Annual Meeting, Washington DC. USA, January 2009.
- 92. Figliozzi, M. An Iterative Route Construction and Improvement Algorithm for the Vehicle Routing Problem with Soft and Hard Time Windows, Applications of Advanced Technologies in Transportation (AATT) Conference Proceedings, Athens, Greece, May 2008.
- 93. Figliozzi, M.A., Impacts of Congestion on Commercial Vehicle Tours Characteristics and Costs. Proceeding of the 87th Transportation Research Board Annual Meeting, Washington DC. USA, January 2008.
- 94. Figliozzi, M.A., Planning Approximations to the Average Length of Vehicle Routing Problems with Varying Customer Demands and Routing Constraints. Proceeding of the 87th Transportation Research Board Annual Meeting, Washington DC. USA, January 2008.
- 95. Greaves, S. and M. Figliozzi, Urban Commercial Vehicle Tour Data Collection Using Passive GPS Technology: Issues And Potential Applications. Proceeding of the 87th Transportation Research Board Annual Meeting, Washington DC. USA, January 2008.
- 96. Figliozzi, M.A., Impacts of Congestion on Commercial Vehicle Tours Characteristics and Costs. Proceedings 2nd Annual National Urban Freight Conference, Long Beach, CA. December, 2007.

- 97. Figliozzi, M.A., L. Kingdon, and A. Wilkitzki, Analysis of Freight Tours in a Congested Urban Area Using Disaggregated Data: Characteristics and Data Collection Challenges. Proceedings 2nd Annual National Urban Freight Conference, Long Beach, CA. December, 2007.
- 98. Figliozzi, M.A., Impact of Commercial Vehicle Tour Types on Vehicle Kilometers Traveled in Urban Areas. Proceeding of the 86th Transportation Research Board Annual Meeting, Washington DC. USA, January 2007.
- 99. Figliozzi, M.A., L. Kingdon, and A. Wilkitzki, Commercial Vehicle Tours and Road Congestion in Urban Areas: Implications for Carriers' Operations and Public Data Collection and Dissemination Efforts. Proceeding of the 86th Transportation Research Board Annual Meeting, January 2007, Washington DC. USA, 2007.
- 100. Analysis and Evaluation of Incentive Compatible Dynamic Mechanisms for Carrier Collaboration, Proceeding of the 85th Annual Transportation Research Board Meeting. Washington, D.C., January 2006.
- 101. Quantifying Opportunity Costs in Sequential Transportation Auctions for Truckload Acquisition, Proceeding of the 85th Annual Transportation Research Board Meeting. Washington, D.C., January 2006.
- 102. Figliozzi, M.A., Modeling the Impact of Technological Changes on Urban Commercial Trips by Commercial Activity Routing Type. Proceeding of the 85th Annual Transportation Research Board Meeting. Washington, D.C., January 2006.
- 103. Figliozzi, M.A. A framework to understand the impact of logistics trends and technological changes on truck flows, Proceedings 28th Australasian Transport Research Forum. 2005. Sydney, Australia.
- 104. Figliozzi, M.A., H. Mahmassani, and P. Jaillet, Auction Settings and Performance of Electronic Marketplaces for Truckload Transportation Services. Proceeding of the 84th Annual Transportation Research Board Meeting. Washington, D.C., January 2005.
- 105. Figliozzi, M.A., H. Mahmassani, and P. Jaillet, Competitive Performance Assessment of Dynamic Vehicle Routing Technologies Using Sequential Auctions. Proceeding of the 83th Annual Transportation Research Board Meeting. Washington, D.C., January 2004.
- 106. Figliozzi, M.A., H. Mahmassani, and P. Jaillet. Modeling Carrier Behavior in Sequential Auction Transportation Markets. Proceeding of the 10th International Conference on Travel Behaviour Research (IATBR), August 2003.
- 107. Figliozzi, M.A., H. Mahmassani, and P. Jaillet, Framework for study of carrier strategies in auction-based transportation marketplace. Proceeding of the 82th Annual Transportation Research Board Meeting. Washington, D.C., January 2003.
- 108. Figliozzi, M., Mahmassani, H., and Jaillet, P., Modeling Online Transportation Market Performance under Real-Time Carrier Bidding Strategies, Proceeding of the 5th International Conference in Electronic Commerce (ICRC5). Montreal, Canada, 2002.
- 109. Figliozzi, M., Mahmassani, H., and Jaillet, P., Framework for the Study of Carrier Strategies in an Auction Based Transportation Marketplace, Proceeding of the 81st Annual Transportation Research Board Meeting. Washington D.C., 2002.
- 110. Harrison, R., Figliozzi, M., and McCray, J., Estimating Texas-Mexico North American Free Trade Agreement Truck Volumes, Proceeding of the 80th Annual Transportation Research Board Meeting. Washington D.C., 2001.
- 111. Figliozzi, M., Harrison, R., and McCray, J., Using Weigh-In-Motion Data To Calibrate Trade-Derived Estimates of Mexican Trade Truck Volumes In Texas, Proceeding of the 79th Annual Transportation Research Board Meeting. WashingtonD.C., 2000.

Referred Book Chapters

- 1. Figliozzi, M.A., *Freight Travel Behavior*, in Feasibility decisions in Transportation Engineering and Economics, Cappelli and Nocera, Editors., 2010, McGraw-Hill
- 2. Figliozzi, M.A., H. Mahmassani, and P. Jaillet, *Repeated Auction Games and Learning Dynamics in Electronic Logistics Marketplaces: Complexity, Bounded Rationality, and Regulation through Information*, in Managing Complexity: Insights, Concepts, Applications, D. Helbing, Editor. 2008, Springer: Berlin. p. 137-175.

Reports and Industry Publications

- 1. Figliozzi, M.A., 2014, Modeling and Analyzing the Impact of Advanced Technologies on Transit Performance Measures in Arterial Corridors, NITC report, August 2014.
- 2. Figliozzi, M.A., Monsere, C., *Design and Implementation of Pedestrian and Bicycle-Specific Data Collection Methods in Oregon*, ODOT report, April 2014.
- 3. Figliozzi, M.A., 2013, *Transit Bus Fleet Management and Optimization Models Addressing New Engine Technologies and Emissions Constraints*, OTREC report, February 2013.
- 4. Figliozzi, M. A., 2013, The *Application of Novel Smart Phone Truck Road Use Data to Develop and Estimate Freight Performance Measures*, ODOT report, April 2013.
- 5. Monsere, C., Figliozzi, M.A., Operational Guidance for Bicycle-Specific Traffic Signals, ODOT report, April 2013.
- 6. Figliozzi, M.A., Monsere, C., 2012, *Integrated Multimodal Transportation, Air Quality, and Livability Corridor Study*, OTREC report, November 2012.
- 7. Figliozzi, M.A., 2012, A study of headway maintenance for bus routes: causes and effects of bus bunching in extensive and congested service areas, OTREC report, November 2012.
- 8. Figliozzi, M.A., 2012, Value of Travel Time Reliability, OTREC report, November 2012.
- 9. Figliozzi, M., Shabani, K., 2010, Review and Assessment of Methodologies To Enhance The Oregon Statewide Integrated Model Freight Module, Oregon DOT, Transportation Planning Unit
- 10. Figliozzi, M., Wheeler, N., 2010, Performance of Freight Corridors in the Pacific Northwest, FHWA.
- 11. Figliozzi, M.A., 2010, *Analysis of Travel Time Reliability for Freight Corridors Connecting the Pacific Northwest*, OTREC report, November 2010.
- 12. PI, Figliozzi, M.A., *Analyzing and Quantifying the Impact of Congestion on LTL Industry Costs and Performance in the Portland Metropolitan Region*, OTREC report, November 2010.
- 13. Figliozzi, M.A., 2010, Fast and effective solution procedures to time-dependent vehicle routing problems in Congested Urban Areas, Final Report, Oregon Transportation Research and Education Consortium, OTREC report, November 2008.
- 14. Figliozzi, M.A., 2010, Tufte, K., "Oregon Freight Data Mart", Final Report, Oregon Transportation Research and Education Consortium, OTREC report, November 2008.
- 15. Figliozzi, M.A., 2008, Fast and effective solution procedures to time-dependent vehicle routing problems in Congested Urban Areas, Final Report, Oregon Transportation Research and Education Consortium, OTREC report, November 2008.

- 16. Figliozzi, M.A., Bertini, R., 2008, Tufte, K., "Oregon Freight Data Mart", Final Report, Oregon Transportation Research and Education Consortium, OTREC report, November 2008.
- 17. Figliozzi, M.A., 2008, Development of a Course in Distribution Logistics, Final Report, Oregon Transportation Research and Education Consortium, OTREC report, November 2008.
- 18. Figliozzi, M.A., 2007, Practical Approximations to Quantify the Impact Of Time Windows and Delivery Sizes on VMT Multi-Stop Tours, Final Report, Oregon Transportation Research and Education Consortium, OTREC report, November 2008.
- 19. Damnjanovic, I., Figliozzi, M., Mladenovic, G., and Majzelj, T. 2005. Business Operations, Information Technologies and Highway Concessions: Bratstvo-Jedinstvo on Life-Support. Ekonomist, Serbia & Montenegro, 268.
- 20. Harrison, R. and Figliozzi, M. 2001. Impacts Of Containership Size, Service Routes, And Demand On Texas Gulf Port, Center for Transportation Research, The University of Texas at Austin. http://www.utexas.edu/research/ctr/pdf_reports/ 1833_3.pdf
- 21. Figliozzi, M. and Harrison, R. 2001. Truck Trade Corridors between The U.S. and Mexico. Center for Transportation Research, The University of Texas at Austin. http://swutc.tamu.edu/Reports/472840-00071-1.pdf
- 22. Harrison, R., Figliozzi, M., and Walton, C.M. 2000. Mega-Containerships and Mega-Container ports in the Gulf Of Mexico: a Literature Review and Annotated Bibliography. Center for Transportation Research, The University of Texas at Austin. http://www.utexas.edu/research/ctr/pdf_reports/1833_1.pdf
- 23. Harrison, R., Figliozzi, M., Using Weigh-in-Motion Data to Calibrate Trade Derived Estimates of NAFTA Truck Volumes in Texas

Professional Service (Selected)

- Member of the National Institute for Transportation and Communities (NITC) executive committee (Portland State University representative) since 2013 to present.
- Member of the Oregon Department of Transportation Expert Task Group for "Active and Sustainable Transportation", 2012 to present.
- Oregon Highway Cost Allocation Study 2013 review team for Oregon Department of Transportation
- Chair Advisory Committee, Truck Efficiency and Reduced Idling Study Group, Oregon Department of Environmental Quality
- Member Transportation Network Modeling Committee, Transportation Research Board, Academy of Sciences, 2008 to present.
- Member Freight and Logistics Committee, Transportation Research Board, Academy of Sciences, 2011 to present.
- Member Intermodal Freight Terminal Design and Operations Committee, Transportation Research Board,
 National Academy of Sciences, 2004-2013.
- Committee member overseeing Transportation Research Board National Academy of Sciences National Freight Cooperative Research Program, NCFRP 15: Understanding Urban Good Movements (2008-2010).

- Manuscript Reviewer for the following transportation journals: Journal of Transportation Engineering, International Journal of Sustainable Transportation, Transport Reviews, Transportation Research Part A, Transportation Research Part B, Transportation Research Part C, Transportation Research Part D, Transportation Research Part E, Transportation Science, Transportation Research Record in the following committees: Intermodal Freight Terminal Design and Operations, Freight Transportation and Logistics Planning, Network Modeling, Public Transportation, Air Quality, Bicycle Transportation and Safety Data Analysis and Evaluation. Other non-transportation journals: Operations Research, Australian Economic Review, European Journal of Operational Research, and Journal of the Operational Research Society.
- Journal of the Operational Research Society, European Journal of Operational Research, Transport Reviews,
 Transportation Research Part B Methodological, Transportation Research Part C- New Technologies,
 Transportation Research Part E Freight and Logistics, Transportation Science, Australian Economic Review,
 Transportation Research Record (Network Modeling Committee, Freight Transportation and Logistics
 Planning Committee, and Intermodal Freight Terminal Design and Operations Committee.
- Member Transportation and Logistics Society, Institute for Operations Research and Management Science (INFORMS), 2002 to present.
- Individual Affiliate, Transportation Research Board, National Academy of Sciences, 2000 to present.

Awarded Research Grants

GRANTS ONLY AS A PI

- 1. Exploiting New Data Sources to Quantify Arterial Congestion and Performance Measures, PI, Figliozzi, M. A., 2012, CoPI Bertini, R., National Institute for Transportation and Communities, \$120,932
- 2. PI, Figliozzi, M. A., 2014, Pedestrian Livability and Multimodal Transportation Performance Measures in Arterial Corridors, National Institute for Transportation and Communities, \$50,000
- 3. PI, Figliozzi, M. A., 2013, Evaluating the Use of Crowdsourcing as a Data Collection Method for Bicycle Performance Measures and Identification of Facility Improvement Needs, OREGON DEPARTMENT OF TRANSPORTATION, \$173,500.
- 4. PI, Figliozzi, M. A., 2012, Modeling and Analyzing the Impact of Advanced Technologies on Livability and Multimodal Transportation Performance Measures in Arterial Corridors, \$144,000.
- 5. PI, Figliozzi, M. A., 2012, CoPI Monsere, C., *Design and Implementation of Pedestrian and Bicycle-Specific Data Collection Methods in Oregon, OREGON DEPARTMENT OF TRANSPORTATION*, \$137,000.
- 6. PI, Figliozzi, M. A., 2012, Support for Portland State University Students in Transportation Engineering and Planning (STEP)Group, \$20,000.
- 7. PI, Figliozzi, M. A., 2011, The Application of Novel Smart Phone Truck Road Use Data to Develop and Estimate Freight Performance Measures, \$130,577.
- 8. PI, Figliozzi, M.A, CoPIs: George, L., Monsere, C., 2011, *Integrated Multimodal Transportation, Air Quality, and Livability Corridor Study,* \$150,000.
- 9. PI, Figliozzi, M. A., 2011, Support for Portland State University Students in Transportation Engineering and Planning (STEP) Group, \$20,000.
- 10. PI, Figliozzi, M. A., CoPIs: Haire, A., 2010, Transit Bus Fleet Management and Optimization Models Addressing New Engine Technologies and Emissions Constraints, \$ 141,394

- 11. PI, Figliozzi, CoPIs: M.A, George, L., Monsere, C., Haire, A., 2010, Integrated Multimodal Transportation, Air Quality, and Livability Corridor Study: Measuring, Understanding, and Modeling the Interactions Between Traffic, Transit, Pedestrians, Traffic Signals, and Emissions, \$ 100,000.
- 12. PI, Figliozzi, M. A., 2010, Support for Portland State University Students in Transportation Engineering and Planning (STEP) Group, \$20,000.
- 13. PI, Figliozzi, M. A., CoPIs: Lafferriere, G., Bertini, R., Wu-Chi, F., 2009, A study of headway maintenance for bus routes: causes and effects of "bus bunching" in extensive and congested service areas, Oregon Transportation Research and Education Consortium \$ 155,418
- 14. PI, Figliozzi, M.A., 2009, Review and Assessment of Methodologies To Enhance The Oregon Statewide Integrated Model Freight Module, Oregon Department of Transportation, \$ 56,044.
- 15. PI, Figliozzi, M. A., 2009, *Green Fleet Replacement Models*, Oregon Transportation Research and Education Consortium, \$51,682.
- 16. PI, Figliozzi, M. A., 2009, *Modeling the Impact of Traffic Congestion on Urban Freight Costs and Emissions*, Portland State University Faculty Enhancement Program, \$12,228.
- 17. PI, Figliozzi, M. A., 2009, Travel Grant, Portland State University Professional Travel Grant Award, \$ 1,250.
- 18. PI, Figliozzi, M.A., 2009, Performance of Freight Corridors in the Pacific Northwest, Federal Highway Administration American Trucking Research Institute \$ 5,000
- 19. PI, Figliozzi, M.A., 2008, Analysis of Travel Time Reliability for Freight Corridors Connecting the Pacific Northwest, Oregon Transportation Research and Education Consortium, \$82,688
- PI, Figliozzi, M.A., Analyzing and Quantifying the Impact of Congestion on LTL Industry Costs and Performance in the Portland Metropolitan Region, Oregon Transportation Research and Education Consortium, \$127,971.
- 21. PI, Figliozzi, M. A., 2008, Freight Distribution Problems in Congested Urban Areas, Portland State University Faculty Enhancement Program, \$9,847.
- 22. PI, Figliozzi, M. A., 2008, Travel Grant, Portland State University Professional Travel Grant Award, \$1,250.
- 23. PI, Figliozzi, M.A., 2007, Fast and effective solution procedures to time-dependent vehicle routing problems in Congested Urban Areas, Oregon Transportation Research and Education Consortium, \$25,935.
- 24. PI, Figliozzi, M.A., Oregon Freight Data Mart, Port of Portland -Oregon Transportation Research and Education Consortium, \$60,000.
- 25. PI, Figliozzi, M.A., 2007, Practical Approximations to Quantify the Impact Of Time Windows and Delivery Sizes on VMT Multi-Stop Tours, Oregon Transportation Research and Education Consortium, \$25,934.
- 26. PI, Figliozzi, M.A., 2007, Development of a Course in Distribution Logistics, Oregon Transportation Research and Education Consortium, \$10,666.
- 27. PI, Figliozzi, M.A.,, Greaves SP, 2007, Modeling the Environmental Impacts of Commercial Vehicle Tours and Freight Management Policies in Urban Areas, Australian Research Council, \$ 200,000.
- 28. PI, Figliozzi, M.A., 2007, Evaluating the Value of Supply Chain Transport Reliability for Sydney-based Importers and Exporters Using Stated Choice Experiments. Faculty of Economics and Business. \$15,000.
- 29. PI, Figliozzi, M.A., 2006, Methodologies to Evaluate and Mitigate the Impact of Traffic Congestion in Urban Freight Distribution Systems, University of Sydney Research Office. \$17,000.
- 30. PI, Figliozzi, M.A., 2006, Approximations to the Length of Vehicle Routing Problems in Urban Networks Using Geographical Information Systems. School of Business. \$9,000.

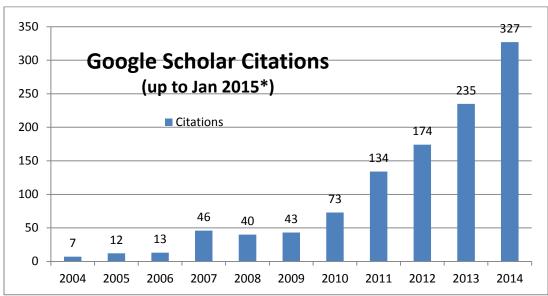
- 31. PI, Figliozzi, M.A., 2005, Evaluating Long Term Modal Split at Sydney Intermodal Yards Using Stated Choice Experiments. 2005. School of Business. University of Sydney. \$13,000.
- 32. PI, Figliozzi, M.A., 2004, Evaluating the Impact of Advance Information on Real Time Transportation Service Costs. School of Business. University of Sydney. \$5,000.

GRANTS AS A CO-PI

- 1. Understanding Cyclist-Vehicle Interaction via Analysis of Ego-centric Video, PI: Feng, L., coPIs: Figliozzi, M. A., Feng. W., 2014, Portland State University, \$117,643
- 2. PI Monsere, C., coPI, Figliozzi, M. A., 2014, Safety Effectiveness of Pedestrian Crossing Enhancements, Oregon Department of Transportation, \$130,000
- 3. PI Nordback, K., coPI, Figliozzi, M. A., 2014, Investigation of Bicycle and Pedestrian Continuous and Short Duration Count Technologies in Oregon, OREGON DEPARTMENT OF TRANSPORTATION, \$137,364
- 4. PI Wu-chi, F., coPI, Figliozzi, M. A., Monsere, C., 2013, Application of Interactive Video Sensing and Management for Pedestrian and Bicycle Safety Studies, OTREC, \$143,508
- 5. PI Pankow, J., coPI, Figliozzi, M. A., 2012, Evaluation of Bicyclists Exposure to Traffic-Related Air Pollution along Distinct Facility Types, OTREC, \$128,146
- 6. PI Monsere, C., coPI, Figliozzi, M. A., 2011, Operational Guidance for Bicycle-Specific Traffic Signals in Oregon, OREGON DEPARTMENT OF TRANSPORTATION, \$119,000
- 7. MacArthur, J., Figliozzi, M.A, 2009, Climate Change Impact Assessment for Surface Transportation in the Pacific Northwest and Alaska, Region X Northwest Transportation Consortium, \$250,000.
- 8. George, L., Figliozzi, M.A, Monsere, C., Building Capacity to Investigate the Environmental and Public Health Impacts of Traffic Flows and Traffic Management Policies in Urban Areas, PSU-Miller Foundation Center for Sustainable Processes and Practices and Oregon Transportation Research and Education Consortium, \$115,011
- 9. Jay, D., et al., The Columbia River Basin Sustainable Water Resources, Energy and Climate Initiative, PSU-Miller Foundation Center for Sustainable Processes and Practices, \$299,392 (\$14,210 for M.A. Figliozzi's transportation research)
- 10. Bertini R., Monsere C., Figliozzi M.A, Development, Deployment, and Assessment of a New Educational Paradigm for Transportation Professionals and University Students: A Collaboration of the Region X Transportation Consortium, FHWA Transportation Education Development Pilot Program, 2008–2010, PSU grant \$229,946 (\$42,000 for Figliozzi's work)
- 11. Chang, H., Lafrenz, M, and Figliozzi M.A, 2008, M., Future Flooding Impacts on Transportation Infrastructure and Traffic Patterns Resulting from Climate Change, Oregon Transportation Research and Education Consortium, \$87,001 (\$22,000 for Figliozzi's work)

Citations

Published work has been cited over 1302 times* in Google Scholar (over 1035 citations since 2010): h-index 20



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