

Robert L. Bertini, Ph.D., P.E.

Professor of Civil and Environmental Engineering
Executive Director, Center for Urban Transportation Research
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QUALIFICATIONS

Education

Ph.D.	University of California, Berkeley, Civil Engineering Dwight David Eisenhower and University of California Transportation Center Doctoral Fellowships Dissertation: <i>Time Dependent Traffic Flow Features at a Freeway Bottleneck Downstream of a Merge</i>	1999
M.S.	San José State University, Civil Engineering	1991
B.S.	California Polytechnic State University, San Luis Obispo, Civil Engineering, <i>cum laude</i> Music Minor: French horn	1988

Experience

University of South Florida, Tampa	2016–Present
Executive Director, Center for Urban Transportation Research (CUTR): <i>leading university department with \$22 million annual budget, 200 employees/students, 15 direct reports, 180 projects, overseeing all administrative functions, growing in relevance, engagement, collaboration and diversity, including research, education, oversight of degree and certificate programs, and extensive training/workforce development programs.</i>	
Professor, Civil and Environmental Engineering	
Member, Dean's Leadership Council	
Chair, Transportation Engineering Area Committee	
Transportation Engineering Career Guidance Officer	
Director, U.S. DOT National Institute for Congestion Reduction	2019–Present
Director, U.S. DOT National Center for Transit Research	2017–2020
Associate Director, Center for Transportation Equity, Decisions and Dollars	2016–Present
Professor (Courtesy), Patel College of Global Sustainability	2017–Present
Professor (Courtesy), California Polytechnic State University, Luis Obispo	2016–Present
California Polytechnic State University, San Luis Obispo	2014–2016
Associate Professor, Civil and Environmental Engineering	
Professor (Courtesy), Portland State University	
Director, Transportation Engineering Projects Area (TESPA) and ITE Student Chapter Advisor	
Portland State University	2000–2014
Professor, Civil and Environmental Engineering	2008–2014
Director, Oregon Transportation Research and Education Consortium (OTREC)	2006–2009
Director, Intelligent Transportation Systems Laboratory	2000–2014
Associate Professor, Civil and Environmental Engineering	2004–2008
Assistant Professor, Civil and Environmental Engineering	2000–2004
Joint Appointment, Nohad A. Toulon School of Urban Studies and Planning	2003–2009

Advisor: EWB, ASCE, ITE Student Chapters Delft University of Technology, the Netherlands Visiting Professor, Department of Transport and Planning	2011–2012
U.S. Department of Transportation, Washington, D.C. Deputy Administrator (Deputy Assistant Secretary), Research and Innovative Technology Administration: <i>Chief Operating Officer for 700-person, \$400 million federal agency, including 11 direct reports, oversight of all budgetary, civil rights, communications, public affairs, labor, procurement, information technology, facilities, human resources, legal, programmatic, technical, stakeholder, legislative and strategic planning initiatives.</i> Director, Intelligent Transportation Systems Joint Program Office Chair, U.S. DOT Innovation Council National Science and Technology Council: Committee on Homeland and National Security, Committee on Technology Deputies Council White House Emerging Technologies Interagency Policy Coordination Committee	2009–2011 2010–2011 2010–2011
DaimlerChrysler Research and Technology North America, Inc., Palo Alto, California Senior Research Scientist	1999–2000
University of California, Berkeley, Institute of Transportation Studies Eisenhower Doctoral Fellow/University of California Transportation Center Doctoral Fellow Graduate Research and Teaching Assistant	1995–1999
San José State University Lecturer, Department of Civil and Environmental Engineering	1993–1995
Parsons Brinckerhoff Quade & Douglas, Inc., San José and San Francisco, California Lead Civil Engineer	1993–1995
DeLeuw, Cather & Company, San José and San Francisco, California Senior Civil Engineer	1990–1993
San Mateo County Department of Public Works, Redwood City, California Associate Engineer	1988–1990

Affiliations

Director, National Institute for Congestion Reduction (NICR), National University Transportation Center, U.S. Department of Transportation, University of South Florida in partnership with University of California Berkeley, Texas A&M University and University of Puerto Rico at Mayagüez, 2019–2023.

Director, National Center for Transit Research, Tier 1 University Transportation Center, U.S. Department of Transportation, University of South Florida in partnership with Florida International University, University of Illinois at Chicago and Texas A&M University, 2017–2020

Associate Director, Center for Transportation Equity, Decisions and Dollars (C-TEDD), Tier 1 University Transportation Center, USF Representative, U.S. Department of Transportation, 2017–2021

Associate Director, National Institute for Transportation and Communities (NITC), National University Transportation Center, USF Representative, U.S. Department of Transportation, 2017–2018

Chair, TUM CREATE Scientific Advisory Board (SAB), Towards the Ultimate Public Transport System, Technical University of Munich and National Research Foundation of Singapore, 2017–Present

Visiting Scholar, Centre for Expertise on Traffic Management (TrafficQuest), collaboration among Rijkswaterstaat/TNO/Delft University of Technology, 2011–2012
Director, Intelligent Transportation Systems Laboratory, Portland State University, 2000–2009
Director, Center for Transportation Studies, Portland State University, 2002–2006
Professor; Associate Professor; and Assistant Professor, Nohad A. Toulon School of Urban Studies and Planning, Portland State University (joint appointment), 2003–2009
Senior Fellow, Center for Transportation Studies, College of Urban and Public Affairs, Portland State University, 2006–2009
Research Associate, Center for Urban Studies, College of Urban and Public Affairs, Portland State University, 2001–2009
Visiting Professor, Department of Civil Engineering and Institute of Transport Studies, Monash University, Melbourne, Australia, December 2008
Research Associate, Mineta Transportation Institute, San José State University, 1994–Present

Awards and Honors

Outstanding Student Organization Advisor, University of South Florida, 2019
WTS Tampa Bay Person of the Year, 2018
Senior Member, Institute of Electrical and Electronics Engineers (IEEE), 2017
Fellow, American Society of Civil Engineers (ASCE), 2016
Fellow, Institute of Transportation Engineers (ITE), 2016
Raytheon Excellence in Teaching and Applied Research Award, Cal Poly, Nominee, 2015
Cal Poly Society of Women Engineers, Most Supportive Professor Award, Nominee, 2015
TRB Blue Ribbon Committee Award, Committee on Traffic Flow Theory and Characteristics, Community Building and Mentoring, Transportation Research Board Technical Activities Council, 2015
Certificate of Appreciation, Transportation Research Board of the National Academies, for Chairing the Committee on Traffic Flow Theory and Characteristics, 2015
Peter DeFazio Transportation Hall of Fame Award, Oregon Transportation Research and Education Consortium (OTREC), Portland State University, 2014
Ogden Lecture, Institute for Transport Studies, Monash University, Australia, 2014
Harvard Kennedy School, Ash Center for Democratic Governance and Innovation, Top 25 Innovations in Government, recognizing U.S. DOT's IdeaHub, 2013
Visitors' Travel Grant, Netherlands Organisation for Scientific Research (NWO), 2011–2012
Secretary's Team Award, IdeaHub, U.S. Department of Transportation, 2011
Innovation in Education Award, Institute of Transportation Engineers, 2010 Annual Meeting and Exhibition, Vancouver, B.C., 2010
Melvin Webber Memorial Lecture, University of California Transportation Center (UCTC) Student Conference, University of California Irvine, 2010
Senior Executive Service of the United States of America, U.S. Office of Personnel Management, 2010
Distinguished Faculty Achievement Award, Portland State University, 2007
Best Paper Award, Institute of Transportation Engineers District 6 Annual Meeting, Transportation Gets Googled, McCourt, R., Welch, T., Tufte, K., and Bertini, R.L., 2007
Best Paper Award, Institute of Transportation Engineers District 6 Annual Meeting, Evaluating an Adaptive Signal Control System in Gresham, Peters, J.M., McCoy, J., and Bertini, R.L., 2007
Omega Rho, Operations Research and Management Science Honor Society, 2007
Outstanding Transportation Educator Award, Institute of Transportation Engineers District 6, 2006
Excellence in Community-Based Research Civic Engagement Award, Portland State University Center for Academic Excellence, 2006
Diversity Achievement Award, Women's Transportation Seminar (WTS) Portland Chapter, 2006

Chinook Award, Outstanding Volunteer Group Contribution, Sullivan's Gulch Trail Design, Metro Regional Parks and Greenspaces, 2005
 Individual Achievement Award, Institute of Transportation Engineers, Oregon Section, 2004
 National Science Foundation Faculty Early Career Development (CAREER) Award, Mining Archived Intelligent Transportation Systems Data: A Validation Framework for Improved Performance Assessment and Modeling, \$400,000, 2003-2008
 Best Paper Award, Institute of Transportation Engineers District 6 Annual Meeting, Analysis of a Transit Bus as a Probe Vehicle for Arterial Performance Measurement, with S. Tantiyanugulchai, 2003
 Outstanding Research Award, Maseeh College of Engineering and Computer Science, Portland State University, 2003
 Outstanding Teaching Award, Civil and Environmental Engineering, Portland State University, 2002
 Innovative Ideas Award, Bus Rapid Transit and the American Community Design Competition, 2001
 Eno Foundation Fellow, Eno Center for Transportation Leadership Development, 1998
 Dwight David Eisenhower Graduate Fellowship (\$70,000), National Highway Institute, U.S. Department of Transportation, 1997-1999
 University of California Transportation Center (UCTC) Dissertation Fellowship, 1999
 University of California Transportation Center (UCTC) Fellowship, 1996

Professional Organizations – *past and present memberships/affiliations*

American Road and Transportation Builders Association
 American Society for Engineering Education
 American Society of Civil Engineers
 Fellow, 2016-present
 Member, 2002-2004, 2013-2016
 Associate Member, 1993-1995, 1997-2002
 Student Member, 1984-1988
 Chi Epsilon, Civil Engineering Honor Society
 Council of University Transportation Centers
 Florida Public Transportation Association (FPTA)
 Member of Board of Directors (ex officio), 2017-present
 Institute of Electrical and Electronics Engineers (IEEE)
 Senior Member, 2017-present
 Member, Intelligent Transportation Systems Society
 Member of ITS Society Board of Governors, 2015-2018
 Institute of Transportation Engineers
 Fellow, 2016-present
 University of South Florida Student Chapter Co-Advisor, 2018-Present
 District 6 Faculty Initiatives Committee 2004-2008
 Intelligent Transportation Society of America
 Board of Directors, ex officio Member, 2010-2011
 ITS World Congress International Program Committee, 2010-present
 Intelligent Transportation Society of Oregon
 Treasurer, 2002-2004; Webmaster 2005-2006
 International Benefits, Costs and Evaluation (IBEC) Working Group for Intelligent Transportation Systems
 League of American Bicyclists, Certified League Cycling Instructor (LCI) No. 5511 and Member
 Northwest Transportation Training and Education Alliance
 Omega Rho, Operations Research and Management Science Honor Society
 Order of the Engineer, 2016-present

Oregon Model Steering Committee, 2004–2009

Region X Transportation Consortium (Oregon, Washington, Idaho, Alaska)

Tau Beta Pi, Engineering Honor Society

Transportation Research Board: Committee Member, Past Committee Chair, Section Chair, Group Board Member

Women's Transportation Seminar: Member; Foundation Board of Directors 2010–2011

Professional Registration

Registered Professional Engineer (PE), Florida No. 82727, 2017

Registered Civil Engineer (PE), Oregon No. 65260, 2000

Registered Civil Engineer (PE), California No. C47064, 1991

Engineer-in-Training (EIT), California No. 69549, 1987

PUBLICATIONS **student co-author*

Refereed Journal Articles

1. Nuworsoo, C., Rahman, F., Pande, A., *Low, T., and Bertini, R.L. "California's I-80 Smart Corridor: Before-After Analysis of Travel-Time Reliability Indicators vs. User-Survey Response Data." *Transportation Research Record: Journal of the Transportation Research Board*, 2020 (accepted).
2. *Niels, T., *Mitrovic, N., *Dobrota, N., Bogenberger, K., Stevanovic, A., and Bertini, R.L. "Integrated Intersection Control for Connected, Automated Vehicles and Pedestrians -Simulation-Based Evaluation." *Transportation Research Record: Journal of the Transportation Research Board*, 2020 (accepted).
3. Menon, N., Lin, P.-S., *Rangaswamy, R., Kourtellis, A., Chen, C., and Bertini, R.L. "A Statistical Analysis of Public Opinions from a Low-Speed Automated Shuttle Demonstration." *Transportation Research Record: Journal of the Transportation Research Board*, 2020 (accepted).
4. *Palaio, L., Bertini, R.L., Menon, N., *Niels, T., *Yuksel, E., and *Staes, B. "Lessons from Comparing Bike-Share Usage Across Explanatory Dimensions: System Size, Weather, Location, and Trip Purpose." *Transportation Research Record: Journal of the Transportation Research Board*, 2020 (submitted).
5. Wang, Y., Guo, J., Zhao, M., Hu, Y., Papamichail, I., Papageorgiou, M., and Bertini, R.L. "What If Many Smart Cars Conduct Ego-Efficient Lane Changes in Traffic Flow: An Answer Provided by Reinforcement Learning." *Transportation Research Record: Journal of the Transportation Research Board*, 2020 (accepted).
6. *Staes, B., Bertini, R.L., Menon, N., *Yuksel, E., and *Palaio, L. "A Framework for Identifying Candidate Autonomous Vehicle Shuttle Routes in a University Environment: Leveraging Readily Available Campus Mobility Data." *Transportation Research Record: Journal of the Transportation Research Board*, 2020 (submitted).
7. Bertini, R.L., Menon, N., *Staes, B., and *Yuksel, E. "Vision for a Multimodal Transportation Data Archive and Performance Measurement Engine for the Tampa Bay Region," *Transportation Research Record: Journal of the Transportation Research Board*, 2020 (submitted).
8. Bertini, R.L., *Yuksel, E., *Wang, Z., Menon, N., and Li, X. "Toward the Creation of a Safe and Connected Campus Testbed for Transportation Innovation: the Tampa, Florida Experience," *Transportation Research Record: Journal of the Transportation Research Board*, 2020 (submitted).
9. Kourtellis, A., Lin, P.-S., and Bertini, R.L. "Development of a Smartphone-based Prototype for Safety Driven Connected Bicycle Applications," *Transportation Research Record: Journal of the Transportation Research Board*, 2020 (submitted).
10. *Kocak, T., Gurram, S., Bertini, R.L., and Stuart, A. "Impacts of a Metropolitan-scale Toll Lane Road Expansion Program on Air Pollution and Equity," *Atmospheric Environment*, 2019 (submitted).




11. *Ackaah, W., Bogenberer, K., and Bertini, R.L. "Empirical Evaluation of Real-time Traffic Information for Navigation and the Variable Speed Limit System," Journal of Intelligent Transportation Systems, 2019. DOI [10.1080/15472450.2018.1563864](https://doi.org/10.1080/15472450.2018.1563864)
12. Bertini, R.L., Wang, H., and *Carstens, K. "Preparing Oregon for Connected-Vehicle Deployment: Connected-Vehicle Application Prioritization Process." Transportation Research Record: Journal of the Transportation Research Board, Vol. 2615, pp. 1–10, 2017. DOI [10.3141/2615-01](https://doi.org/10.3141/2615-01)
13. *Downey, M., and Bertini, R.L., "Capturing the Benefits of a Variable Advisory Speed System in Portland, Oregon: An Empirical Before and After Evaluation," Transportation Research Record: Journal of the Transportation Research Board, Vol. 2559, pp. 7–16, 2016. DOI [10.3141/2559-02](https://doi.org/10.3141/2559-02)
14. Bertini, R.L., Wang, H., Knudson, A., and *Carstens, K. "Assessing State Department of Transportation Readiness for Connected Vehicle and Cooperative System Deployment: Oregon Case Study," Transportation Research Record: Journal of the Transportation Research Board, Vol. 2559, pp. 24–34, 2016. DOI [10.3141/2559-04](https://doi.org/10.3141/2559-04)
15. *Riggins, G., Bertini, R.L., *Ackaah, W., and Bogenberger, K., "Measurement and Assessment of Driver Compliance with Variable Speed Limit Systems: Comparison of United States and Germany," Transportation Research Record: Journal of the Transportation Research Board, Vol. 2554, pp. 77–88, 2016. DOI [10.3141/2554-09](https://doi.org/10.3141/2554-09)
16. *Ackaah, W., *Huber, G., Bogenberger, K., and Bertini, R.L., "Assessing the Harmonization Potential of Variable Speed Limit Systems," Transportation Research Record: Journal of the Transportation Research Board, Vol. 2554, pp. 129–138, 2016. DOI [10.3141/2554-14](https://doi.org/10.3141/2554-14)
17. List, G., *Mashayekhi, M., Bertini, R.L., and Nevers, B., "Development of a Transportation System Simulation Manual (TSSM) Framework: From Theory to Practice," Transportation Research Record: Journal of the Transportation Research Board, Vol. 2561, pp. 45–52, 2016. DOI [10.3141/2561-06](https://doi.org/10.3141/2561-06)
18. *Stewart, C., *Diab, E., Bertini, R.L., and El-Geneidy, A., "Perspectives on Transit: Potential Benefits of Visualizing Transit Data," Transportation Research Record: Journal of the Transportation Research Board, Vol. 2544, pp. 90–101, 2016. DOI [10.3141/2544-11](https://doi.org/10.3141/2544-11)
19. *Hans, E., Chiabaut, N., Leclercq, L., and Bertini, R.L., "Real-time Bus Route State Forecasting Using Particle Filter and Mesoscopic Modeling," Transportation Research Part C, Vol. 61, pp. 121–140, December 2015. DOI [10.1016/j.trc.2015.10.017](https://doi.org/10.1016/j.trc.2015.10.017)
20. *Glick, T., *Feng, W., Bertini, R.L., and Figliozzi, M., "Exploring Applications of Second-Generation Archived Transit Data for Estimating Performance Measures and Arterial Travel Speeds," Transportation Research Record: Journal of the Transportation Research Board, Vol. 2538, pp. 44–53, 2015. DOI [10.3141/2538-06](https://doi.org/10.3141/2538-06)
21. *Feng, W., Figliozzi, M., and Bertini, R.L., "Empirical Evaluation of Transit Signal Priority: Fusion of Heterogeneous Transit and Traffic Signal Data and Novel Performance Measures," Transportation Research Record: Journal of the Transportation Research Board, Vol. 2488, pp. 20–31, 2015. DOI [10.3141/2488-03](https://doi.org/10.3141/2488-03)
22. Tufte, K., Bertini, R.L., and Harvey, M., "Evolution and Usage of the Portal Data Archive: 10-Year Retrospective," Transportation Research Record: Journal of the Transportation Research Board, Vol. 2527, pp. 18–28, 2015. DOI [10.3141/2527-03](https://doi.org/10.3141/2527-03)
23. *Feng, W., Figliozzi, M., and Bertini, R.L., "Quantifying the Joint Impacts of Stop Locations, Signalized Intersections, and Traffic Conditions on Bus Travel Time," Public Transport, Vol. 7, Issue 3, pp. 391–408, December 2015. DOI [10.1007/s12469-015-0105-8](https://doi.org/10.1007/s12469-015-0105-8)
24. *Jordan, B., Makler, J., and Bertini, R.L., "State of Knowledge and Practice: Opportunities for Intelligent Transportation Systems in the Energy Area," Transportation Research Record: Journal of the Transportation Research Board, Vol. 2423, pp. 1–9, 2014. DOI [10.3141/2423-01](https://doi.org/10.3141/2423-01)
25. *Wagner, Z., and Bertini, R.L., "Benefit-Cost Evaluation Method for Transit Stop Removal," Transportation Research Record: Journal of the Transportation Research Board, Vol. 3415, pp. 59–64, 2014. DOI [10.3141/2415-06](https://doi.org/10.3141/2415-06)

26. *Weigl, S., Bogenberger, K., and Bertini, R.L., "Traffic Management Effects of a Variable Speed Limit System on a German Autobahn: Empirical Assessment Before and After System Implementation," Transportation Research Record: Journal of the Transportation Research Board, No. 2380, pp. 48-60, 2013. DOI [10.3141/2380-06](https://doi.org/10.3141/2380-06) 
27. *Ou, Q., Bertini, R.L., van Lint, H., and Hoogendoorn, S. "A Theoretical Framework for Traffic Speed Estimation by Fusing Low Resolution Probe Vehicle Data." IEEE Transactions on Intelligent Transportation Systems, Vol. 12, Sep. 2011, pp. 747-756. DOI [10.1109/TITS.2011.2157688](https://doi.org/10.1109/TITS.2011.2157688) 
28. *Feng, W., *Bigazzi, A., *Kothuri, S., and Bertini, R.L. "Freeway Sensor Spacing and Probe Vehicle Penetration: Impacts on Travel Time Prediction and Estimation Accuracy." Transportation Research Record: Journal of the Transportation Research Board, No. 2178, pp. 67-78, 2010. DOI [10.3141/2178-08](https://doi.org/10.3141/2178-08) 
29. *Li, H., and Bertini, R.L. "Comparison of Algorithms for Systematic Tracking of Patterns of Traffic Congestion on Freeways in Portland, Oregon." Transportation Research Record: Journal of the Transportation Research Board, No. 2178, pp. 101-110, 2010. DOI [10.3141/2178-11](https://doi.org/10.3141/2178-11) 
30. *Bigazzi, A., *Siri, H., and Bertini, R.L. "Effects of Temporal Data Aggregation on Performance Measures and other Intelligent Transportation Systems Applications." Transportation Research Record: Journal of the Transportation Research Board, No. 2160, pp. 96-106, 2010. DOI [10.3141/2160-11](https://doi.org/10.3141/2160-11) 
31. *Wieczorek, J., *Fernandez, R., and Bertini, R.L. "Techniques for Validating an Automatic Bottleneck Detection Tool Using Archived Freeway Sensor Data." Transportation Research Record: Journal of the Transportation Research Board, No. 2160, pp. 87-95, 2010. DOI [10.3141/2160-10](https://doi.org/10.3141/2160-10) 
32. *Bigazzi, A., and Bertini, R.L. "Adding Green Performance Metrics to a Transportation Data Archive." Transportation Research Record: Journal of the Transportation Research Board, No. 2121, pp. 30-40, 2009. DOI [10.3141/2121-04](https://doi.org/10.3141/2121-04) 
33. *Berkow, M., El-Geneidy, A., Bertini, R.L. and Crout, D. "Beyond Generating Transit Performance Measures: Visualizations and Statistical Analysis Using Historical Data." Transportation Research Record: Journal of the Transportation Research Board, No. 2011, pp. 158-169, 2009. DOI [10.3141/2111-18](https://doi.org/10.3141/2111-18) 
34. *Li, H., and Bertini, R.L. "Assessing a Model for Optimal Bus Stop Spacing with High Resolution Archived Stop-Level Data." Transportation Research Record: Journal of the Transportation Research Board, No. 2011, pp. 24-32, 2009. DOI [10.3141/2111-04](https://doi.org/10.3141/2111-04) 
35. *Berkow, M., Monsere, C., Koonce, P., Bertini, R.L., and *Wolfe, M., "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, pp. 102-112, 2009. DOI [10.3141/2099-12](https://doi.org/10.3141/2099-12) 
36. Bertini, R.L., and Lovell, D. "Impacts of Sensor Spacing on Accurate Freeway Travel Time Estimation for Traveler Information." Journal of Intelligent Transportation Systems, Vol. 13, No. 2, pp. 97-110, April 2009. DOI [10.1080/15472450902858400](https://doi.org/10.1080/15472450902858400) 
37. *Zielke, B., Bertini, R.L., and Treiber, M. "Empirical Measurement of Freeway Oscillation Characteristics: An International Comparison." Transportation Research Record: Journal of the Transportation Research Board, No. 2088, pp. 57-67, 2008. DOI [10.3141/2088-07](https://doi.org/10.3141/2088-07) 
38. Monsere, C., *Bosa, P., and Bertini, R.L. "Combining Climate, Crash, and Highway Data for Improved Ranking of Speed and Winter-Weather Related Crash Locations in Oregon." ASCE Journal of Transportation Engineering, Volume 134, Issue 7, pp. 287-296, 2008. DOI [10.1061/\(ASCE\)0733-947X\(2008\)134:7\(287\)](https://doi.org/10.1061/(ASCE)0733-947X(2008)134:7(287)) 
39. *Lyman, K., and Bertini, R.L. "Using Travel Time Reliability Measures to Improve Regional Transportation Planning and Operations." Transportation Research Record: Journal of the Transportation Research Board, No. 2046, pp. 1-10, 2008. DOI [10.3141/2046-01](https://doi.org/10.3141/2046-01) 




40. *Kothuri, S., Tufte, K., *Fayed, E., and Bertini, R.L. "Toward Understanding and Reducing Errors in Real-Time Estimation of Travel Times." Transportation Research Record: Journal of the Transportation Research Board, No. 2049, pp. 21–28, 2008. DOI [10.3141/2049-03](https://doi.org/10.3141/2049-03) 
41. Monsere, C., *Breakstone, A., Bertini, R.L. and Bish, D. "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, pp. 113–120, 2007. DOI [10.3141/2009-15](https://doi.org/10.3141/2009-15) 
42. Ahn, S., Bertini, R.L., *Auffray, B. and Ross, J. "Evaluating the Benefits of a System-Wide Adaptive Ramp-Metering Strategy in Portland, Oregon." Transportation Research Record: Journal of the Transportation Research Board, No. 2012, pp. 47–56, 2007. DOI [10.3141/2012-06](https://doi.org/10.3141/2012-06) 
43. Bertini, R.L., *Boice, S. and Bogenberger, K. "Dynamics of Variable Speed Limit System Surrounding a Bottleneck on a German Autobahn." Transportation Research Record: Journal of the Transportation Research Board, No. 1978, pp. 149–159, 2006. DOI [10.3141/1978-20](https://doi.org/10.3141/1978-20) 
44. Monsere, C., *Breakstone, A., Bertini, R.L., Deeter, D. and McGill, G. "Validating Dynamic Message Sign Freeway Travel Time Messages Using Ground Truth Geospatial Data." Transportation Research Record: Journal of the Transportation Research Board, No. 1959, pp. 19–27, 2006. DOI [10.3141/1959-03](https://doi.org/10.3141/1959-03) 
45. *Lindgren, R., Bertini, R.L., Helbing, D. and Schonhof, M. "Toward Demonstrating the Predictability of Bottleneck Activation on a German Autobahn." Transportation Research Record: Journal of the Transportation Research Board, No. 1965, pp. 12–22, 2006. DOI [10.3141/1965-02](https://doi.org/10.3141/1965-02) 
46. Bertini, R.L., *Hansen, S. and Bogenberger, K. "Empirical Analysis of Traffic Sensor Data Surrounding a Bottleneck on a German Autobahn." Transportation Research Record: Journal of the Transportation Research Board, No. 1934, pp. 97–107, 2005. DOI [10.3141/1934-10](https://doi.org/10.3141/1934-10) 
47. Monsere, C., *Nolan, C., Bertini, R., Anderson, E. and *El-Seoud, T. "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, pp. 98–107, 2005. DOI [10.3141/1918-13](https://doi.org/10.3141/1918-13) 
48. *Byrne, N., Koonce, P., Bertini, R.L., *Pangilinan, C. and *Lasky, M. "Using Hardware-in-the-Loop Simulation to Evaluate Signal Control Strategies for Transit Signal Priority." Transportation Research Record: Journal of the Transportation Research Board, No. 1925, pp. 227–234, 2005. DOI [10.3141/1925-23](https://doi.org/10.3141/1925-23) 
49. Bertini, R.L., *Hansen, S., *Byrd, A. and *Yin, T. "Experience Implementing a User Service for Archived Intelligent Transportation Systems Data." Transportation Research Record: Journal of the Transportation Research Board, No. 1917, pp. 90–99, 2005. DOI [10.3141/1917-11](https://doi.org/10.3141/1917-11) 
50. Bertini, R.L. and *Myton, A. "Use of Performance Measurement system Data to Diagnose Freeway Bottleneck Locations Empirically in Orange County, California." Transportation Research Record: Journal of the Transportation Research Board, No. 1925, pp. 48–57, 2005. DOI [10.3141/1925-06](https://doi.org/10.3141/1925-06) 
51. Bertini, R.L., Monsere, C., *Byrd, A., *Rose, M. and *El-Seoud, T. "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, pp. 37–45, 2005. DOI [10.3141/1924-05](https://doi.org/10.3141/1924-05) 
52. Kimpel, T., Strathman, J., Bertini, R.L. and Callas, S. "Analysis of Transit Signal Priority Using Archived TriMet Bus Dispatch System Data." Transportation Research Record: Journal of the Transportation Research Board, No. 1925, pp. 156–166, 2005. DOI [10.3141/1925-16](https://doi.org/10.3141/1925-16) 
53. Bertini, R.L. and *Leal, M. "Empirical Study of Traffic Features at a Freeway Lane Drop." ASCE Journal of Transportation Engineering, Vol. 131, No. 6, pp. 397–407, 2005. DOI [10.1061/\(ASCE\)0733-947X\(2005\)131:6\(397\)](https://doi.org/10.1061/(ASCE)0733-947X(2005)131:6(397)) 

54. Bertini, R.L., *Glasgow, C., and Peters, J. "Evaluating Traffic Signal Improvements Using Archived Transit AVL Data." Institute of Transportation Engineers Journal on the Web, Vol. 75, No. 2, pp. 69–75, 2005. 
55. Bertini, R.L. "Detecting Signals of Bottleneck Activation for Freeway Operations and Control." Journal of Intelligent Transportation Systems, Vol. 9, No. 1, pp. 35–45, 2005. DOI [10.1080/15472450590912556](https://doi.org/10.1080/15472450590912556) 
56. Bertini, R.L. and *Malik, S. "Observed Dynamic Traffic Features on a Freeway Section with Merges and Diverges." Transportation Research Record: Journal of the Transportation Research Board, No. 1867, pp. 25–35, 2004. DOI [10.3141/1867-04](https://doi.org/10.3141/1867-04) 
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31. Bertini, R.L., *Rose, M., *El-Geneidy, A., *Eder, A., *Leal, M., *Malik, S., *Tantiyanugulchai, S. and *Yin, T. "Using Archived Data to Measure Operational Benefits of ITS Investments: Ramp Meters." Portland State University, Center for Transportation Studies, Research Report, 2004. 
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35. Bertini, R., *Lindgren, R. and *Tantiyanugulchai, S., "Application of Paramics Simulation to a Diamond Interchange." Portland State University, Transportation Research Group, Research Report, 2002. 
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37. Bertini, R., *Leal, M. and *El-Geneidy, A. "Analysis and Validation of Loop Detector Data in the I-5 Corridor." Portland State University, Transportation Research Group, Research Report, 2002. 
38. Bertini, R., *Tantiyanugulchai, S., *Anderson, E., *Lindgren, R., *Leal, M. "Evaluation of Region 2 Incident Response Program Using Archived Data." Portland State University, Transportation Research Group, Research Report, 2001. 
39. *Hamel, C.J., *Johnson, S.T., Mueller, W.H., Bertini, R.L. "Traffic Signal Pole Failure Testing." Portland State University, STAR Laboratory, Research Report, 2001. 
40. Kaplan, B., Armstrong, K., Bertini, R.L., "Micro-Compact Car Fleet Applications in the U.S." DaimlerChrysler Research and Technology North America, Inc., 2000.
41. Bertini, R.L. and Kaplan, B. "Market Perspectives for a Micro Compact Car in a Shared Use Fleet Application." Submitted to Transportation Research Board, 2000.

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43. Wollenberg, S., Fels, K., and Bertini, R.L. "Intelligent Transportation Systems Monitoring in the U.S." DaimlerChrysler Research and Technology North America, Inc., 1999.
44. Skabardonis, A., Petty, K., Varaiya, P.P., and Bertini, R.L. "The Los Angeles Freeway Service Patrol Evaluation." University of California, Berkeley, UCB-ITS-PRR-98-31, 1998. 
45. Bertini, R.L., Editor. "The Transportation Enterprise: Challenges of the 21st Century. Proc. of the Institute of Transportation Studies 50th Anniversary Symposium April 23-24, 1998." University of California, Berkeley, UCB-ITS-CP-98-01, 1998. 
46. Smilowitz, K., Daganzo, C.F., Cassidy, M.J. and Bertini, R.L. "Some Observations of Highway Traffic in Long Queues." University of California, Berkeley, UCB-ITS-RR-98-06, 1998. 
47. Bertini, R.L., Lovell, D.J. and Lin, W-H. "Daganzo's Fundamentals of Transportation and Traffic Operations: Problem Set Solutions." University of California, Berkeley, Institute of Transportation Studies Course Notes, to accompany UCB-ITS-CN-98-01, 1998. 
48. Daganzo, C.F., Cassidy, M.J. and Bertini, R.L. "Causes and Effects of Phase Transitions in Highway Traffic." University of California, Berkeley, UCB-ITS-RR-97-08, 1997. 
49. Daganzo, C.F., Cassidy, M.J. and Bertini, R.L. "Causes of Phase Transitions in Highway Traffic." Submitted to Physical Review Letters, 1997. 
50. Cassidy, M.J. and Bertini, R.L. "Some Traffic Features at Freeway Bottlenecks." University of California, Berkeley, Institute of Transportation Studies Research Report, UCB-ITS-RR-97-07, 1997.
51. Bertini, R.L., Petty, K., Skabardonis, A. and Varaiya, P.P. "The Los Angeles Freeway Service Patrol (FSP) Evaluation: Site Selection and Database Development." University of California, Berkeley, PATH Working Paper, UCB-ITS-PWP-97-16, 1997.
52. Bertini, R.L., Klieman, L., Petty, K., Skabardonis, A. and Varaiya, P.P. "The Los Angeles Freeway Service Patrol (FSP) Evaluation: Analysis of the Incident Data." University of California, Berkeley, PATH Working Paper, UCB-ITS-PWP-97-18, 1997.
53. Skabardonis, A. and Bertini, R.L. "Fixed-Time Versus Actuated Control in Coordinated Signal Systems." Institute of Transportation Studies, University of California, Berkeley, 1997.
54. Petty, K., Bertini, R.L., Skabardonis, A. and Varaiya, P.P. "The Los Angeles Freeway Service Patrol (FSP) Evaluation: Study Methodology and Preliminary Findings." University of California, Berkeley, UCB-ITS-PWP-97-17, 1997.
55. Coifman, B. and Bertini, R.L. "Median Light Rail Crossings: Accident Causation and Countermeasures." University of California, Berkeley, UCB-ITS-PWP-96-13, 1996. 

PRESENTATIONS

Congressional Testimony

"Surface Transportation Research and Development for Energy Efficiency," Subcommittee on Technology and Innovation, House Committee on Science and Technology, June 24, 2008

Invited Lectures and Seminars

1. "Perspectives on the Future of Transportation: Data and Connectivity as Enablers," Future Transportation Forum, 2nd Zhejiang International Intelligent Transportation Industry Expo (ITIE) and Future Transportation Conference, Hangzhou, China, December 6-8, 2019.
2. "Vision for a Safe and Connected Campus Community Testbed at the University of South Florida," Invited Lecture, TUM CREATE, National Research Foundation, Singapore, October 24, 2019.
3. "Understanding CAV Opportunities in Florida: Tampa and the Corridor South to Fort Meyers," Connected and Autonomous Vehicles 101" Education for Small Towns and Satellite Cities in the Tampa-Sarasota-Cape Coral Corridor, Florida State College, August 29, 2019.

4. "Understanding the AV at the Municipal Level: the Orlando-Tampa Corridor," Connected and Autonomous Vehicles 101: Education for Counties, Towns and Cities in the Orlando-Tampa, Corridor, Florida Polytechnic University, July 19, 2019.
"Vision for a Safe and Connected Campus Community Testbed at the University of South Florida," Plenary Lecture, 19th COTA International Conference of Transportation Professionals, Southeast University, Nanjing, China, July 7, 2019.
5. "Learning from Experience Using 'Big Data' to Improve Public Transportation Performance," Pre-CICTP2019 Workshop, Big Data & Emerging Vehicle Technologies, Beijing University of Technology, Beijing, China, July 4, 2019.
6. "Transportation Opportunities and Challenges in Uptown Tampa," Bike Walk Tampa Bay Summer Summit, University Area CDC, Tampa, FL, June 21, 2019.
7. "Changing the Future of Transportation: Connected and Automated Vehicles," Guest Lecture (Skype), CE 599 Intelligent Transportation Systems, Oregon State University, May 17, 2019
8. "Where will CAVs Be in 2050 and How Will We Get There?" Panel Presentation, Infrastructure, Connected an Automated Vehicles and Energy Consumption: Investments that Support Energy Efficiency Deployment," Alliance to Save Energy Roundtable Discussion, 50x50 Commission, Tampa, FL, April 22, 2019.
9. University of South Florida Update, "Research Showcase: Technology Applications, Partnerships/Collaboration and Research Solutions to Achieve Safety and Mobility Benefits," with Lin, P., and Li, X., Florida Department of Transportation, Gainesville, FL, April 12, 2019
10. "Transformational Technologies in Tampa Bay," with Vik Bhide, Tampa Bay Institute of Transportation Engineers First Quarter Luncheon, Tampa, FL, March 26, 2019.
11. "Introduction to Traffic Flow Theory," Guest Lecture, TTE 4003 Transportation Engineering I, University of South Florida, February 28, 2019.
12. "Future of Transportation," Engineering Expo, College of Engineering, University of South Florida, February 15, 2019.
13. "Designing a Career in Transportation: Advice for Students," Second Annual Florida ITE Student Leadership Summit, University of South Florida, February 9, 2019.
14. "Experience Using 'Big Data' to Improve Public Transportation Performance," 2019 Future Urban Mobility Symposium, Singapore-MIT Alliance for Research and Technology Centre (SMART), Singapore, January 28, 2019.
15. "NSF CAREER Proposals: An Overview," NSF CAREER Workshop, University of South Florida Research and Innovation, November 8, 2018.
16. "Multimodal Transportation Systems," Guest Lecture, TTE 4003 Transportation and Society, University of South Florida, November 5, 2018.
17. "Applying a Theory of "And" for a Safe and Sustainable Transportation Technology Future," Florida A&M University-Florida State University (FAMU-FSU) College of Engineering, ITE Student Chapter, October 5, 2018.
18. "Transportation and Government," Guest Lecture, TTE 4003 Transportation and Society, University of South Florida, October 17, 2018.
19. "Applying a Theory of "And" for a Safe, Sane and Sustainable Transportation Technology Future," Arizona Transportation Research Institute Lecture Series, University of Arizona, October 5, 2018.
20. "The Future of Transportation Technology," Guest Lectures, URP 6930 Adaptive Transportation Planning, University of South Florida, September 6, 2018.
21. "Changing the Future of Transportation: Connected and Automated Vehicles," Guest Lecture (Skype), CE 423 Intelligent Transportation Systems, California Polytechnic State University San Luis Obispo, June 1, 2018
22. "Changing the Future of Transportation: Connected and Automated Vehicles," NITC Visiting Scholar Guest Lecture, CE 354 Traffic Engineering, Oregon Institute of Technology, May 30, 2018

23. "Lessons from Taking the Fork in the Road," Keynote Lecture, Inaugural Florida ITE Student Leadership Summit, University of Florida, February 10, 2018.
24. "Data-Driven Diagnosis of Freeway Bottlenecks Relying on Traffic Flow Fundamentals," ITE Transportation Seminar, University of Florida, November 28, 2017.
25. "Bringing Order to Chaos: The Growing Role of Proactive Traffic Management Solutions," Center for Urban Transportation Research (CUTR) Webcast, University of South Florida, October 24, 2017.
26. "Designing Streets for Pedestrians and Bicyclists," and "Sustainable Transportation in the Netherlands," Guest Lectures, URP 6711 Multimodal Transportation Planning, University of South Florida, October 3, 5, and 7, 2017
27. "Autonomous Vehicles Regulation and Deployment: Who Educates the Driver?" National Association of Motor Vehicle Boards and Commissions (NAMVBC) Fall Workshop, Arlington, Virginia, September 7, 2017.
28. "Accelerating the Deployment of Vehicle-to-Infrastructure Cooperative Systems: U.S. Perspectives in an Era of Increasing Automation," VIP Lecture, 17th Chinese Overseas Transportation Association (COTA) International Conference of Transportation Professionals (CICTP), Tongji University, Shanghai, China, July 8, 2017.
29. "The Future of Transportation: U.S. Perspectives for 2017," Keynote Lecture, 17th Chinese Overseas Transportation Association (COTA) International Conference of Transportation Professionals (CICTP), Tongji University, Shanghai, China, July 7, 2017.
30. "Leveraging Multimodal Transportation System Data: Understanding How the System Works and Creating Future Transportation Choices," Invited Lecture, DiDi Chuxing, Beijing, China, July 6, 2017.
31. "Bringing Order to Chaos: The Growing Role of Proactive Traffic Management Solutions," Chinese Overseas Transportation Association Workshop, South China University of Technology, Guangzhou, China, July 4, 2017.
32. "A Vision for a Multimodal Transportation Data Collaborative," Regional Big Data Working Group, Hillsborough County MPO, May 31, 2017.
33. "The Future of Transportation," SciCafe St. Petersburg, Dali Museum/USF College of Marine Science and the Marine Exploration Center, May 30, 2017.
34. "Sustainable Transportation in the Netherlands," Guest Lecture, CE527 Sustainable Mobility, Cal Poly San Luis Obispo, May 18, 2017.
35. "Introduction to Public Transportation Systems," and "Can 'Big' Data Serve as a Foundation for Measuring and Improving Public Transport Operations?" TTE 4005 Transportation Engineering II, University of South Florida, April 4 and 6, 2017.
36. "Can 'Big' Data Serve as a Foundation for Measuring and Improving Public Transport Operations?" Guest Lecture, Louisiana State University Department of Civil and Environmental Engineering, March 15, 2017.
37. "Big Data at the Center for Urban Transportation Research," with S. Barbeau, Tampa Bay Transportation Applications Group (TB-TAG), Tampa, FL, March 1, 2017
38. "Transportation and Government," Guest Lecture, TTE 4003 Transportation and Society, University of South Florida, March 1, 2017.
39. "Designing Streets for Pedestrians and Bicyclists," Guest Lecture, CGN 6933 Sustainable Transportation, University of South Florida, February 2, 2017.
40. "2017 Transit Forecast," Focus on 2017: A Tampa Bay Economic Forecast, Central Pinellas Chamber of Commerce, Clearwater, FL, January 18, 2017.
41. "Center for Urban Transportation Research on the Move," Tampa Bay Transportation Applications Group (TB-TAG), New Year Kickoff Meeting, Tampa, FL, January 6, 2017.

42. "Transforming Transportation Through Connectivity," Guest Lecture, TTE 4004 Transportation Engineering I, University of South Florida, November 9, 2016.
43. "NSF CAREER Proposals: An Overview," NSF CAREER Workshop, University of South Florida Research and Innovation, November 9, 2016.
44. "Sustainable Transportation in the Netherlands," Guest Lecture, TTE 5501 Transport Planning & Economics, University of South Florida, November 2, 2016.
45. "Center for Urban Transportation Research on the Move," College of Engineering Advisory Board, University of South Florida, October 7, 2016.
46. "Transportation and Government," Guest Lecture, TTE 4003 Transportation and Society, University of South Florida, October 5, 2016.
47. "Can "Big" Data Serve as a Foundation for Measuring and Improving Public Transport Operations?" Guest Lecture, CE 424 Public Transportation, California Polytechnic State University San Luis Obispo, October 5, 2016.
48. "Transportation Experiences at the Intersection between Science, Policy and Politics," Graduate Transportation Seminar Series, Department of Civil and Environmental Engineering, University of South Florida, September 30, 2016.
49. "Adventures in Federal Agency Leadership," Guest Lecture, City and Regional Planning (CRP) 530 Public Agency Management course, California Polytechnic State University San Luis Obispo, May 3, 2016.
50. "Perspectives on Leveraging Transportation Sensor Data for System Evaluations and Performance Measurement: A Case for a Trusted Broker?" Sensing and Smart Systems Seminar Series, Institute for Sensing and Embedded Network Systems Engineering (i-SENSE), Florida Atlantic University, April 14, 2016.
51. "Changing the Future of Transportation: Connected and Automated Vehicles," Oregon Institute of Technology, NITC Visiting Scholar Lecture, Klamath Falls, OR, February 12, 2016.
52. "Lessons from Taking the Fork in the Road," CE 351 Guest Lecture, Oregon Institute of Technology, Klamath Falls, OR, February 12, 2016.
53. "Bertini's Top Ten List," Institute of Transportation Engineers Student Leadership Summit, Pomona, CA, January 23, 2016.
54. "Lessons from Taking the Fork in the Road," Institute of Transportation Engineers Chapter Meeting, California Polytechnic State University San Luis Obispo, January 7, 2016.
55. "Toward Assessing State Department of Transportation Readiness for Connected Vehicle/Cooperative Systems Deployment Scenarios: An Oregon Case Study," Zhejiang University, Hangzhou, China, December 17, 2015.
56. "Development of a Multimodal Transportation System Simulation Manual (TSSM) Framework: From Theory to Practice," Workshop on Decision Support for Traffic, New Directions in Mathematical Approaches for Traffic Flow Management, Institute for Pure and Applied Mathematics (IPAM), University of California at Los Angeles, November 17, 2015.
57. "Development of a Multimodal Transportation System Simulation Manual (TSSM) Framework: From Theory to Practice," Keynote Address, North America PTV Vision Traffic User Group Meeting, Portland, Oregon, October 13, 2015.
58. "Variable Advisory Speed System: Performance Measures and Outlook," Institute for Transport and Regional Planning, University of the Federal Armed Forces, Munich, Germany, June 29, 2015.
59. "Redefining Mobility: Connected/Automated Vehicles," City of Carlsbad, Carlsbad, CA, June 9, 2015.
60. "Adventures in Federal Agency Leadership," Guest Lecture, City and Regional Planning (CRP) 530 Public Agency Management course, California Polytechnic State University San Luis Obispo, April 23, 2015.

61. "The Future of Transportation and the Environment," plenary speaker, Oregon Department of Transportation Geo-Environmental Conference, Eugene, Oregon, April 22, 2015.
62. "Redefining Mobility: Connected/Automated Vehicles," California Transportation Commission, California Road Charge Pilot Program Technical Advisory Committee (TAC), Irvine, CA, March 27, 2015.
63. "The Future of Transportation is Now: Are We Ready?" Keynote Speaker, Institute of Transportation Engineers (ITE)/International Municipal Signal Association (IMSA) Arizona Spring Conference, Phoenix, Arizona, February 25, 2015.
64. "Transforming Transportation Through Connectivity," Institute of Transportation Engineers Student Leadership Summit, Sacramento, CA, February 14, 2015.
65. "Can 'Big' Data Serve as a Foundation for Measuring and Improving Public Transport Operations?" Guest Lecture, CE424 Public Transportation, Cal Poly San Luis Obispo, February 18, 2015.
66. "Using Archived Data to Generate Transit Performance Measures," Guest Lecture, CE424 Public Transportation, Cal Poly San Luis Obispo, February 12, 2015.
67. "Transportation Engineering: An Area on the Move," Industrial Advisory Board, Department of Civil and Environmental Engineering, Cal Poly San Luis Obispo, November 7, 2014.
68. "Discoveries in Delft: International Bicycle and Pedestrian Engineering Observations," Guest Lecture, CE 421 Traffic Engineering, Cal Poly San Luis Obispo, November 4, 2014.
69. "Transport Intersections Between Science, Policy and Politics," Chi Epsilon General Meeting, Cal Poly San Luis Obispo, October 28, 2014.
70. "Discoveries in D.C. and Delft: Reflections on the Future of Transportation Research and Education," Ogden Transport Lecture, Institute for Transport Studies, Monash University, Melbourne, Australia, August 27, 2014.
71. "Transforming Transportation Through Connectivity," PSU Friday Transportation Seminar #394, Portland State University, June 6, 2014.
72. "Transforming Transportation Research by Leveraging Multimodal System Data," Transportation Seminar, Institute of Transportation Studies, University of California Irvine, May 9, 2014.
73. "Putting the Implementation Back in Innovation: Reflections on the Future of Transportation Research and Education," Transportation Innovation Speaker Series, Office of the Assistant Secretary for Research and Technology, U.S. Department of Transportation, April 16, 2014.
74. "Driverless Vehicles—Time to Panic or Rejoice?" Guest Lecture, CE 491 Transportation Engineering, Oregon State University, April 11, 2014.
75. "Sustainable Transportation in the Netherlands," Oregon State University Academy for Lifelong Learning, Corvallis, Oregon, April 11, 2014.
76. "Can We Transform Transportation by Leveraging Multimodal System Data?" SIE/ATLAS Seminar, Department of Systems and Industrial Engineering, University of Arizona, March 7, 2014.
77. "Can 'Big' Data Serve as a Foundation for Measuring and Improving Public Transport Operations?" Distinguished Speaker Series, Department of Civil and Environmental Engineering, Florida International University, February 28, 2014.
78. "Discussion of Potential Future Developments in Connected and Autonomous Vehicles in Oregon," Oregon House Committee on Transportation and Economic Development, Salem, Oregon, February 24, 2014.
79. "Driverless Vehicles—Time to Panic or Rejoice?" with Haizhong Wang, ITE Oregon Winter Workshop, January 28, 2014.
80. "The Management of Uncertainty in the Transportation Engineering Practice: Decision Maker View," Keynote Lecture, Methods and tools for supporting the Use, calibration and validation of Traffic simulations models (MULTITUDE) Final Conference, University of Naples, Italy, December 4, 2013.

81. "U.S. Perspectives on Traffic Information: Past, Present and Future," Beijing International Transport Information Service Conference, Beijing, China, November 15, 2013.
82. "Discoveries in D.C. and Delft: Reflections on the Future of Transportation Research and Education," Beijing Jiaotong University, Beijing, China, November 13, 2013
83. "'Big' Data as a Foundation for Measuring and Improving Public Transport Operations," Warren Lecture, University of Minnesota, Department of Civil Engineering, November 8, 2013.
84. "Vision for a Connected Transportation Future for All Users," Oregon Department of Transportation Fall Leadership Forum, Keizer, Oregon, September 30, 2013.
85. "Discoveries in D.C. and Delft: Reflections on the Future of Transportation Research and Education," Volpe Center Straight from the Source, Cambridge, Massachusetts, September 18, 2013.
86. "Future Connected Vehicles: The Implications of Automotive Technology Advancement for Region 1," Oregon Department of Transportation (ODOT) Region 1, Portland, Oregon, September 9, 2013.
87. "Connected Cars: The Future of Transportation," Drive Oregon, Portland, Oregon, September 4, 2013.
88. "Sustainable Transportation in Portland, Oregon," Shenzhen Institute of Urban Planning and Design (UPDIS), Shenzhen, China, August 16, 2013.
89. "Sustainable Transportation in Portland, Oregon," with Peter Koonce, China Academy of Urban Planning & Design (CAUPD), Shenzhen, China, August 14, 2013.
90. "State of Connected Vehicles," OTREC Connected Vehicles Workshop, Portland, Oregon, August 7, 2013.
91. "The Future of Traffic Management in the U.S.," Masterclass on the Future of Traffic Management, TrafficQuest/International Symposium on Transportation and Traffic Theory (ISTTT), Nordwijk, the Netherlands, July 16, 2013.
92. "Sustainable Transportation in Portland, Oregon," Multimodal Transportation Engineering Applications and Innovations in the Netherlands Course, Delft, the Netherlands, July 7, 2013.
93. "A Transportation Engineer Goes to Washington," Civil Engineering (421) Traffic Engineering course, California Polytechnic State University San Luis Obispo, May 24, 2013
94. "Adventures in Federal Agency Leadership," City and Regional Planning (CRP) 530 Public Agency Management course, California Polytechnic State University San Luis Obispo, May 23, 2013
95. "Unlocking Some Mysteries of Traffic Flow Theory," Civil Engineering (CE) 529 Modeling and Simulation Lab, California Polytechnic State University San Luis Obispo, May 23, 2013
96. "Transport Intersections Between Science, Policy and Politics," Institute of Transportation Studies Seminar Series, U.C. Davis, May 10, 2013.
97. "Transport Intersections Between Science, Policy and Politics," Kittelson & Associates, Inc., Portland, Oregon, May 1, 2013.
98. "Transport Intersections Between Science, Policy and Politics," Arizona State University Department of Civil, Environmental and Sustainable Engineering, ITE Student Chapter, Tempe, Arizona, April 26, 2013.
99. "Stimulating Innovation in Transportation: Lessons Learned from the U.S.," Masterclass on Smart Models for Intelligent Traffic Management and What It Means for Practice," Port of Rotterdam, the Netherlands, March 19, 2013.
100. "Reflections on 20 Years of the National ITS Program," Oregon ITE ITS Subcommittee inaugural meeting, Portland, Oregon, February 13, 2013.
101. "National ITS Opportunities," ITS Opportunities Team, Oregon Department of Transportation, February 5, 2013.
102. "State DOT/University Collaboration: Portland/Oregon Experience," Workshop on University/Transportation Center Support to State DOTs, Federal Highway Administration, Arlington, Virginia, January 18, 2013.

103. "Transport Intersections Between Science, Policy and Politics," CE491 Transportation Engineering, Oregon State University, November 1, 2012.
104. "U.S. Research in Public Transportation Using ITS Data: Bus Operations and Optimal Stop Spacing" Plenary Lecture, 12th Annual Reliability and Statistics in Transportation and Communication Conference, Transport and Telecommunication Institute, October 18, 2012, Riga, Latvia
105. "U.S. Deployment of Intelligent Transport Systems: Lessons Learned and Vision for a Connected Future," Institute for Energy and Transport, European Commission Joint Research Centre, Petten, the Netherlands, October 16, 2012
106. "Successful Grant Writing Strategies," WTS Grant Writing Workshop, Portland, Oregon, October 8, 2012.
107. "Unlocking Some Mysteries of Traffic Flow Theory," Oregon/Washington Institute of Transportation Engineers Simulation Roundtable, Vancouver, Washington, October 4, 2012.
108. "Transport Intersections Between Science, Policy and Politics," Northeastern University and Portland State University course Sustainable Transportation in the Netherlands, Delft, 9 July 2012.
109. "Intelligent Transport Systems: Lessons Learned and Vision for a Connected Future," Conference of European Directors of Roads (CEDR) ITS Task Group, Delft, The Netherlands, 5 July 2012.
110. "Intelligent Transport Systems: Lessons Learned and Vision for a Connected Future," Rijksdienst voor het Wegverkeer (RDW) ITS Working Group, Amersfoort, The Netherlands, 12 July 2012.
111. "Transportation Data, Research, Modeling and Education," Goudappel Coffeng BV, Deventer, The Netherlands, 16 May 2012.
112. "Urban Case Study in ITS Evaluation," MULTITUDE-NEARCTIS Summer School, Assessment of ITS Solutions, Ispra, Italy, June 7, 2012.
113. "Toward Environmental Sustainability in a Connected World," Keynote Address, IEEE Intelligent Vehicle Symposium (IV12), Alcala de Henares, Spain, June 6, 2012.
114. "Archived ITS Data as a Foundation for Innovation," IFFSTAR Seminar, Lyon, France, May 11, 2012.
115. "Transport Intersections Between Science, Policy and Politics," ENTPE Seminar, Lyon, France, May 9, 2012.
116. "Transport Intersections Between Science, Policy and Politics," Institute for Transport and Regional Planning, Universitaet der Bundeswehr, Munich, Germany, April 30, 2012.
117. "U.S. Deployment of Intelligent Transport Systems: Lessons Learned and Vision for a Connected Future," Masterclass, Dutch Ministry of Infrastructure and the Environment, The Hague, Netherlands, April 17, 2012.
118. "U.S. Deployment of Intelligent Transport Systems: Lessons Learned and Vision for a Connected Future," Seminar, Dutch Directorate-General for Public Works and Water Management (Rijkswaterstaat), April 10, 2012.
119. "U.S. Deployment of Intelligent Transport Systems: Lessons Learned and Vision for a Connected Future," European Commission Joint Research Centre, Institute for Energy and Transport, Ispra, Italy, March 15, 2012.
120. "TRB Preparation/Survival Guide," TRAIL Master Class, Delft University of Technology, January 13, 2012.
121. "Research at Portland State University and More!" 133rd Transport and Planning Colloquium, Delft University of Technology, Faculty of Civil Engineering and Geosciences, Department of Transport and Planning, September 28, 2011
122. "Transport Intersections Between Science, Policy and Politics," TIL 4030 Interdisciplinary Fundamentals, Delft University of Technology, Faculty of Civil Engineering and Geosciences, Department of Transport and Planning October 10, 2011
123. "The Rider Experience," Federal Transit Administration, Transit Research Analysis Committee, Transit Safety Research Workshop, June 30, 2011

124. "U.S. Sustainable Transportation and Eco-Driving Policy Overview," Cooperative Approaches Towards Technology, Policy & Research on Reducing Emissions Through Eco-Driving, Meeting III of the U.S. – Japan Cooperation on an Integrated Approach to Transportation Dialogue, Ann Arbor, Michigan, June 20, 2011
125. "Introduction to Using Models in Relation to ITS and Cooperative Systems," Traffic Modeling for Traffic Management and Cooperative Systems "Summer School," Delft University of Technology, Delft, The Netherlands, 2011
126. "Intelligent Transportation Systems Deployment in the U.S.: Lessons Learned and a Vision for a Connected Future," World Bank Transport Forum, Washington, D.C., March 29, 2011
127. "U.S. DOT Research & Innovative Technology: An All-Around Update from RITA Leadership," ITS America Webinar Series, March 30, 2011
128. "Transforming Transportation Through Connectivity: Intellidrive and AERIS Update," I-95 Corridor Coalition Executive Board Meeting, Washington, D.C., December 6, 2010
129. "Transforming Transportation Through Connectivity," Georgia Transportation Institute/University Transportation Center Seminar Series, Georgia Institute of Technology, November 23, 2010.
130. "Green Tech Lab: Applications for Transportation," Panel on Gov 2.0, George Washington University Office of Entrepreneurship & iStrategyLabs, November 19, 2010
131. "Innovation: Implementing Good Ideas in Intelligent Transportation Systems," Guest Lecture, ENCE289J Transportation Innovation, University of Maryland, November 2, 2010
132. "The Future of Operations," Operations Academy Senior Management Program, Center for Advanced Transportation Technology, University of Maryland, October 14, 2010
133. "ITS Priorities at the U.S. DOT/RITA," 7th AASHTO International Day, Busan Exhibition Convention Center, Busan, Korea, October 25, 2010
134. "ITS Priorities at the U.S. DOT/RITA," Open Seminar for EU-Japan-US Cooperation on ITS, Ministry of Land, Infrastructure, Transport and Tourism, Tokyo, Japan, October 21, 2010
135. "Deploying Connected Vehicles: Advancing Safety and Creating New Markets," Center for Automotive Research Management Briefing Seminars, Traverse City, Michigan, August 2, 2010.
136. "Beyond Seatbelts and Airbags: Moving Toward a New Era in Transportation Safety," Maker Faire, Henry Ford Museum, Dearborn, Michigan, July 31, 2010.
137. "Implementing ITS the Smart Way," OST-Policy Summer 2010 Speaker Series Brownbag Lunch, U.S. Department of Transportation, July 22, 2010
138. "Does Traffic Data Support Traffic Models?" Summer Meeting of the TRB Committee on Traffic Flow Theory and Characteristics/Second Workshop of the Multitude COST Action, Annecy, France, July 9, 2010
139. Implementing ITS the Smart Way, Transport Knowledge and Learning Program on Intelligent Transportation Systems (ITS), the World Bank, Washington, D.C., June 17, 2010.
140. Moving Toward Sustainable Transportation: Technology and Policy Perspectives, Transportation Research at McGill (TRAN) and CIRRELT Weekly Transportation Seminar, School of Urban Planning, McGill University, Montreal, Canada, June 2010
141. Connectivity Enabling Safer, More Efficient and Sustainable Multi-modal Transportation, Transport Canada, Ottawa, Canada, June 15, 2010.
142. Transforming Transportation through Collaboration, 2010 ITS Michigan Annual Meeting and Exposition, Achieving the Vision: From VII to Intellidrive, Keynote Address, Dearborn, Michigan, May 19, 2010.
143. Sustainable Transit: Developing an Action Agenda, A University Transportation Research Center Symposium, Federal Perspectives, Goals and Multidisciplinary Approach to Sustainability, The City College of New York, May 7, 2010.
144. U.S. Department of Transportation Reauthorization Outreach Tour, Moderator for Session on Performance Driven Transportation, Houston, Texas, May 5, 2010.

145. Intelligent Transportation Society of America, 20th Annual Meeting & Exposition, ITS Joint Program Office Update, U.S. Department of Transportation Plenary Session, Houston, Texas, May 4, 2010.
146. Intelligent Transportation Society of America, 20th Annual Meeting & Exposition, Considering a Career in Intelligent Transportation Systems, Houston, Texas, May 4, 2010.
147. Transportation Workforce Development Summit 2010, National Efforts to Develop Tomorrow's Transportation Workforce, Iowa State University, Ames, Iowa, April 27, 2010.
148. Melvin Webber Memorial Lecture, Moving Toward Sustainable Transportation: Technology and Policy Perspectives, University of California Transportation Center (UCTC) Student Conference, University of California Irvine, April 2, 2010.
149. A Smarter Transportation System for the 21st Century, Technology's Influence on the U.S. Transportation System Over the Next Five Years, Washington, D.C., February 25, 2010.
150. Michigan Technological University, Intelligent Transportation Systems, Michigan Tech Transportation Institute (MTTI), December 1, 2009.
151. Michigan Technological University, Needs, Challenges and Opportunities in Transportation Research and Education: National Perspectives, 2009 Transportation Forum, Partnering for the Future of Transportation, Michigan Tech Transportation Institute (MTTI), November 30, 2009.
152. Munich University of Technology, IntelliDrive and Vehicle Infrastructure Integration in the USA, Intelligent Transport Systems Education Network (ITS-Edunet) Short Course on Challenges and Opportunities of V2X Communication, May 14-15, 2009.
153. University of Arizona, Systems and Industrial Engineering Seminar Series, Intelligent Transportation Solutions for Planning, Optimizing and Measuring Public Transport Performance, April 7, 2009.
154. University of Nevada Reno, Department of Civil and Environmental Engineering, Transportation Seminar, Impact of Sensor Spacing on Travel Time Estimation and Information, April 1, 2009.
155. University of Nevada Reno, Department of Geography, Geography Colloquium, How Transportation Technology Can Limit the Impact of Future Climate Change, April 1, 2009.
156. Portland State University, Department of Civil and Environmental Engineering, CE 351 Guest Lecture, Transportation Technology Impacts on Climate Change, February 24, 2009.
157. Monash University, Department of Civil Engineering, Transportation Group Seminar, Transportation Research at Portland State University, December 5, 2008.
158. Monash University, Department of Civil Engineering, Innovative Traffic Management Workshop, Freeway Performance Before and After Installation of a Systemwide Adaptive Ramp Metering System, December 1, 2008.
159. Monash University, Department of Civil Engineering, Innovative Traffic Management Workshop, Freeway Travel Time Estimation, December 1, 2008.
160. University of Illinois at Chicago, Department of Urban Planning and Policy and Computational Transportation Science IGERT Seminar, Travel Time Estimation for Traffic Management and Traveler Information, November 10, 2008.
161. Portland State University USP 556 Urban Transportation: Problems and Policies, Evaluation of Intelligent Transportation System Impacts, May 6, 2008.
162. Portland State University, Computer Science Colloquium Series, Intelligent Transportation Systems: A Domain Area for Computer Scientists in the 21st Century, April 23, 2008.
163. Portland State University Friday Transportation Seminar Series, Travel Time Estimation for Traffic Management and Traveler Information. April 4, 2008. 
164. Tsinghua University, Institute of Systems Engineering, Unlocking the Mysteries of Freeway Sensor Data to Diagnose Detailed Bottleneck Dynamics. Beijing, China, October 12, 2007.
165. Oregon Transportation Commission meeting, Portland Ramp Metering and Gresham Adaptive Signal System Evaluations, September 12, 2007.

166. Portland State University USP 556 Urban Transportation: Problems and Policies, Introduction to Intelligent Transportation Systems, May 31, 2007.
167. Portland State University, Environmental Sciences and Resources Seminar, Oregon Transportation Research and Education Consortium Environmental Priorities and Opportunities, April 27, 2007.
168. Portland State University, Road Ecology Class, Environmental Sciences and Resources, Introduction to the Oregon Transportation Research and Education Consortium, April 5, 2007.
169. Portland State University Friday Transportation Seminar Series, PORTAL: Lessons from Developing an Archived Data User Service in Portland, Oregon, March 16, 2007.
170. Portland State University, Mechanical and Materials Engineering (MME) Seminar Series, Lessons from Doing Research: Developing Ideas, Getting Funding, and Doing the Work, November 2006.
171. Portland Traffic and Transportation Course, City of Portland, Portland State University Transportation Education and Research Overview, November 8, 2006.
172. Federal Highway Administration, Oregon Division, PORTAL: Implementing a New Generation Archived Data User Service in Oregon, November 7, 2006.
173. Delegation from Binh Duong Province, Vietnam, Portland State University Transportation Education and Research Overview, U.S. Vietnam Chamber of Commerce, November 6, 2006.
174. Mobility the Smart Way, The State of Intelligent Transportation Systems in the Portland Metropolitan Region, Portland State University's Role in the Region's ITS Program Development, Oregon Convention Center, October 26, 2006.
175. CH2MHill Lunchtime Seminar, Transportation Research and Education at Portland State University. October 24, 2006.
176. Portland State University, PSU Weekend, Fuel for Thought, October 21, 2006.
177. Kittelson & Associates, Inc. Lunchtime Seminar, Transportation Research and Education at Portland State University. August 10, 2006.
178. Metro Seminar, PORTAL: Implementing a New Generation Archived Data User Service in Oregon, Portland, Oregon, February 22, 2006.
179. Portland State University USP 556 Urban Transportation: Problems and Policies, Introduction to Intelligent Transportation Systems, February 13, 2006.
180. Technische Universitat Munchen, Department of Traffic Engineering and Control, International Definitions of Congestion: An Examination of Macroscopic Models. Munich, January 27, 2006.
181. University of Washington, Department of Civil & Environmental Engineering, ITS Data Applications. CEE 412/599 Transportation Data Management & Analysis, December 7, 2005.
182. University of Portland, Department of Civil Engineering, Graduate Studies and Transportation Research at PSU. December 6, 2005.
183. Portland State University, Introduction to Public Transportation. CE 454 Urban Transportation Systems Guest Lecture, November 28, 2005.
184. ASCE Oregon Capital Branch, Expanding Transportation Research in Oregon. Salem, Oregon, November 17, 2005.
185. Joint Institute of Transportation Engineers (ITE)/International Municipal Signal Association (IMSA) Meeting, Designation of a Partnership of Four Oregon Universities as a National University Transportation Center. October 31, 2005.
186. Portland State University, Natural and Urban Ecology of Portland, Geography Seminar, Urban Transportation: Human and Natural Impacts on the Portland Landscapes, November 2, 2005.
187. Portland Traffic and Transportation Course, City of Portland, Transportation Research, Education and Outreach at Portland State University, October 27, 2005.
188. Portland State University, PSU Weekend, Congestion: Good, the Bad and the Ugly. October 2005.
189. Portland Freight Committee, Intelligent Transportation Systems and Freight, October 6, 2005.
190. Imperial College, London, What is Traffic Congestion, Department of Civil and Environmental Engineering, June 28, 2005.

191. Technische Universitat Munchen, Department of Traffic Engineering and Control, Using Basic Traffic Flow Principles to Diagnose Bottlenecks on German Autobahns, Munich, May 19, 2005.
192. BMW Research and Innovation Center, An International Comparison of Macroscopic and Microscopic Measures of Congestion, Munich, Germany, May 18, 2005.
193. University of Alabama at Birmingham, Department of Civil and Environmental Engineering, Prototype for Advanced Public Transit Systems in Multimodal Corridors, April 25, 2005.
194. Faculty Association at Portland State University, Intelligent Transportation Systems: An Oxymoron or Can Technology Really Reduce Congestion? April 12, 2005.
195. Sigma Xi Columbia-Willamette Chapter and PSU Department of Geology, Intelligent Transportation Systems: An Oxymoron or Can Technology Really Reduce Congestion? March 9, 2005.
196. National Institute for Advanced Transportation Technology, Department of Civil Engineering, University of Idaho, Unlocking Some Mysteries of Traffic Flow Theory, February 22, 2005.
197. Traffic Monitoring Peer Exchange, Innovations in Intelligent Transportation Systems, Oregon and Washington Departments of Transportation, February 16, 2005.
198. Portland State University, Center for Transportation Studies, Congestion and Its Extent. Fall Seminar Series, November 19, 2004.
199. U.S. Department of Transportation Site Visit, TransNow University Transportation Center, University of Washington, Intelligent Transportation Systems Research at Portland State University, September 22, 2004.
200. Oregon Model Steering Committee, Portland Performance Measures for 2002, Oregon Department of Transportation, Salem, Oregon, September 15, 2004.
201. Transportation and Livability Summit, New Transportation Ideas, Insights and Opportunities for 21st Century Livable Communities, Gresham, Oregon, August 3, 2004.
202. Comet Operators Meeting, Evaluation of Comet Incident Response Program, Oregon Department of Transportation, Region 1, June 16, 2004.
203. PSU Alumni Association Events, Transportation and Technology: Solutions for Seattle. Seattle, Washington, April 7, 2004.
204. BMW Group Research and Innovation Center, Empirical Comparison of German and U.S. Traffic Sensor Data and Impact on Driver Assistance Systems, Munich, Germany, March 22, 2004.
205. CH2Mhill, Intelligent Transportation Systems Research and Education, Portland, Oregon, December 2, 2003.
206. Oregon State University, Department of Civil, Environmental and Construction Engineering, Freeway Bottleneck Analysis, November 21, 2003.
207. University of California, Berkeley, Institute of Transportation Studies, Using Archived Stop-Level Transit Geo-Location Data for Improved Operations and Performance Monitoring, Transportation Seminar Series, September 26, 2003. 
208. ITS Oregon Workshop, Benefits of Freeway Service Patrol Vehicles, Wilsonville, Oregon, April 2003.
209. Portland State University, Center for Transportation Studies, Recent Research on the Transformation of Oregon's Gasoline Tax into a Road User Fee System, Winter Seminar Series, February 14, 2003.
210. Institute of Transportation Engineers Oregon Section, Transportation Education at Portland State University, Workshop on Transportation Education in the Northwest, January 24, 2003.
211. Oregon Department of Transportation, Evaluation of ODOT's Region 2 Incident Management Program. Regional Maintenance Managers' Meeting, Salem, Oregon, January 23, 2003.
212. Value Pricing in the Northwest - Can We Make It Work? Value Pricing Technology and Institutional Issues and Options, Workshop, December 17, 2002.
213. Oregon Road User Fee Task Force, Data Transmission Options for VMT Data and Fee Collection Centers, Legislative Testimony, Salem, Oregon, November 15, 2002.
214. Portland State University, PSU Weekend, "Fusing Technology and Transportation," October 26, 2002.

215. Northwest Transportation Training and Education and Training Alliance (NWTTEA) Traffic Operations Workshop, Inventory of Current Traffic Operations Training and Education Resources, Portland, Oregon, September 12, 2002.
216. Oregon State University, Department of Civil, Environmental and Construction Engineering, Archived ITS Data: A New Resource for Operations, Planning and Research, March 6, 2002.
217. Oregon State University, Department of Civil, Environmental and Construction Engineering, Technology Options for Alternative Road User Fee Systems, Graduate Seminar, March 6, 2002.
218. National Institute for Advanced Transportation Technology, Department of Civil Engineering, University of Idaho, Capacity and the Breakdown Phenomenon at a Freeway Merge Bottleneck: Unlocking the Potential of Loop Sensor Data, March 1, 2002.
219. Portland State University, Department of Electrical and Computer Engineering Graduate Seminar, Capacity and the Breakdown Phenomenon at a Freeway Merge Bottleneck: Unlocking the Potential of Loop Sensor Data, February 22, 2002.
220. Institute of Transportation Engineers, Oregon Section, Workshop on Transportation Finance, Alternatives to the Motor Fuel Tax. January 24, 2002.
221. Oregon Road User Fee Task Force, Alternatives to the Motor Fuel Tax. Legislative Testimony, Salem, Oregon, November 30, 2001.
222. TransPort ITS Technical Advisory Committee, Archived ITS Data: A New Resource for Operations, Planning and Research, November 14, 2001.
223. American Society of Civil Engineers, Oregon Section Meeting, Transportation in the 21st Century. Portland, Oregon, October 18, 2001.
224. Oregon Transportation Forum, Institute of Transportation Engineers, Women's Transportation Seminar, ITS Oregon, Performance Measures for Improving Transportation Operations. Portland, Oregon, February 15, 2001.
225. Portland State University, Transportation Research Group, Benefits of Archived ITS Data: Measuring Capacity at a Freeway Bottleneck. Fall Seminar Series, October 5, 2000.
226. University of California, Irvine, Institute of Transportation Studies, ITS Seminar Series, Time Dependent Traffic Flow Features at Freeway Bottlenecks. June 1999.
227. University of California, Berkeley, Institute of Transportation Studies, Transportation Seminar Series, Time Dependent Traffic Flow Features at Freeway Bottlenecks. April 1999.
228. San José State University, Department of Civil and Environmental Engineering, Public Transit Technology. Guest Lecture, CE 296B Public Transportation Systems, September 1997.
229. San José State University, College of Engineering/International Institute of Transportation Policy Studies, Symposium on the Future of Public Transportation. 1994.
230. American Society of Civil Engineers, Younger Member Forum, Light Rail Design in a Changing Economy. San José, California, September 1994.

Conference Presentations * *student co-author*

1. Bertini, R.L., "Florida ACES Program—a Research Perspective," Florida Automated Vehicles Summit, Miami, Florida, November 22, 2019.
2. Bertini, R.L., Barbeau, S., Winters, P., "What Are Agencies to Do with All the Transportation Data in a Smart City?" Smart Cities Connect Fall Conference & Exposition, Tampa, Florida, October 23, 2018.
3. Bertini, R.L., *Niels, T., Bogenberger, K., and *Krissteleit, T. "Global Perspectives on the Past, Present and Future of Active Traffic Management: Focus on Ramp Control Implementations," 25th ITS World Congress, Copenhagen, Denmark, September 18, 2018.

4. Bertini, R.L. and Wang, H. "Preparing a Connected Vehicle Roadmap for Optimal System Deployment Scenarios: Case Study of the State of Oregon, USA," 25th ITS World Congress, Copenhagen, Denmark, September 19, 2018.
5. Bertini, R.L., "Smart & Electric Cities," Roadmap 11, Portland, OR, June 19, 2018.
6. Bertini, R.L. "Incorporating TSMO Into Professional Training and University Curricula," Florida Section of the Institute of Transportation Engineers Summer Meeting, Ponte Vedra, FL, June 14, 2018.
7. Bertini, R.L. "Incorporating Transportation Innovations in University Curricula: A 25-year (gulp) Perspective," Third Transportation Engineering Education Workshop, Auburn University, May 22, 2018.
8. Bertini, R.L. "Moving to the Future—Building on the Past," Plenary Session, International Conference on Automated People Movers & Automated Transit Systems, American Society of Civil Engineers, Tampa, FL, April 30, 2018.
9. Bertini, R.L. "Bringing Order to Chaos: The Growing Role of Proactive Traffic Management Solutions," 5th Annual UTC Conference for the Southeastern Region, Gainesville, FL, November 16–17, 2017
10. Bertini, R.L., "Measuring the Benefits of ITS Using Big Data" ITS World Congress, Montreal, Canada, October 31, 2017
11. Bertini, R.L. "Connected & Autonomous Vehicles: New Challenges," Road Usage Charge Forum, Salem, OR, September 19, 2017.
12. Bertini, R.L. "Accelerating the Deployment of Vehicle-to-Infrastructure Cooperative Systems: U.S. Perspectives in an Era of Increasing Automation," Workshop on Getting There from Here: Traffic Modeling, Data Streams, and Prediction for Connected Vehicle Systems Planning and Operations, Federal Highway Administration, Northwestern University, Evanston, IL, July 23, 2017.
13. Bertini, R.L. "Winning the War for Talent," International Bridge, Tunnel and Turnpike Association Communications and Administration Workshop, Tampa, Florida, March 13, 2017.
14. Bertini, R.L. "What Does Practice Ready Mean at TRB?" IGNITE: Traffic Signal Systems with Innovative Technologies Workshop, Transportation Research Board Annual Meeting, Washington, D.C., January 8, 2017.
15. Bertini, R.L. "Center for Urban Transportation Research is On the Move!" Florida Public Transportation Association Annual Meeting, Jacksonville, FL, December 11, 2016.
16. Bertini, R.L. "CV/AV State of the Nation: V2I Deployment Coalition," 4th Annual Florida Automated Vehicles Summit, Tampa, FL, November 29, 2016.
17. Bertini, R.L. "Are We Ready? State and Local Agency Preparations for Connected and Automated Vehicles," Transpo 2016, ITE Florida Section/ITS Florida/WTS, West Palm Beach, FL, November 14, 2016.
18. Bertini, R.L., "Smart Cities: Mobility and Access Motivating Questions," TRB Partners in Research Symposium: Transformational Technologies, Detroit, MI, October 31, 2016.
19. Bertini, R.L. "Center for Urban Transportation Research on the Move," Keynote Address, AASHTO Special Committee on Wireless Communications Technology, Tampa, FL, October 26, 2016.
20. Bertini, R.L. "Are We Ready? State and Local Agency Preparations for Connected and Automated Vehicles," National Rural ITS Conference, Chattanooga, TN, October 4, 2016.
21. Bertini, R.L., "Developing a State Department of Transportation Roadmap for Connected and Automated Vehicles," Institute of Transportation Engineers Western District Annual Meeting, Albuquerque, NM, July 12, 2016.
22. Bertini, R.L., *Riggins, G., *Ackaah, W., and *Margreiter, M. "Evaluation of Driver Compliance to Displayed Advisory Speed Limit Systems: Comparison between Germany and the U.S.," International Symposium on Enhancing Highway Performance (ISEHP), Berlin, Germany, June 16, 2016.

23. Bertini, R.L., Wang, H., Knudson, T., and Carstens, K. "Preparing a Roadmap for Connected Vehicle/Cooperative System Deployment Scenarios: Case Study of the State of Oregon," Proceedings of the International Symposium on Enhancing Highway Performance (ISEHP), Berlin, Germany, June 14-16, 2016 (accepted).
24. Bertini, R.L., Nevers, B., List, G., and *Mashayekhi, M. "Developing a Multimodal Transportation System Simulation Manual: Impacts on Future Highway Performance," International Symposium on Enhancing Highway Performance (ISEHP), Berlin, Germany, June 15, 2016.
25. Bertini, R.L., "Transforming Future Transportation Through Automation and Connectivity," California Association of Councils of Government (CALCOG) Regional Leadership Forum, Monterey, CA, April 1, 2016.
26. Bertini, R.L., "Redefining Mobility: Connected/Autonomous Vehicles, Vacaville Chamber of Commerce Innovation Expo, Vacaville, CA, March 24, 2016.
27. *Downey, M., and Bertini, R.L., "Capturing Benefits of Variable Advisory Speed System in Portland, Oregon: Empirical Before-and-After Evaluation," 95th Annual Meeting of the Transportation Research Board, Washington, D.C., January 12, 2016.
28. Bertini, R.L., "Toward Assessing State Department of Transportation Readiness for Connected Vehicle/Cooperative Systems Deployment Scenarios: An Oregon Case Study," International Conference on Information Technology and Intelligent Transportation Systems (ITITS), Xi'an, China, December 12-13, 2015.
29. Bertini, R.L., Nevers, B., List, G., and *Mashayekhi, M. "Development of a Multimodal Transportation System Simulation Manual: From Theory to Practice," mobil.TUM 2015, International Conference on Mobility and Transport, Munich, Germany, June 30-July 1, 2015.
30. Bertini, R.L., "Redefining Mobility: Connected/Automated Vehicles," American Traffic Safety Services Association Spring Meeting, Sacramento, CA, April 16, 2015.
31. Bertini, R.L., "Creating Change: How Technology is Reshaping the Transportation Industry," Panel Discussion, Contra Costa Transportation Authority (CCTA), Redefining Mobility: Connected Vehicle/Automated Vehicle (CV/AV) Summit, Concord, CA, March 31, 2015.
32. Bertini, R.L., "Redefining Mobility: Connected/Automated Vehicles," San Diego Association of Governments (SANDAG) Annual Board of Directors Retreat, San Diego, CA, January 29, 2015.
33. Bertini, R.L., "Redefining Mobility: Connected/Automated Vehicles," Focus on the Future Conference, Self Help Counties Coalition, Santa Clara, California, November 17, 2014.
34. Bertini, R.L., *Downey, M., Al-Kaisy, A., Ewan, L., and Veneziano, D., "Evaluation of Weather Responsive Variable Advisory Speed System in Portland, Oregon," 21st World Congress on Intelligent Transport Systems, Detroit, Michigan, September 9, 2014.
35. Bertini, R.L., *Borkowitz, T., and Wang, H., "Preparing a Possible Oregon Road Map for Connected Vehicle/Cooperative Systems Deployment Scenarios," 21st World Congress on Intelligent Transport Systems, Detroit, Michigan, September 9, 2014.
36. Bertini, R.L., *Borkowitz, T., and Wang, H., "Extending Connected Vehicle and Cooperative System Concepts to Non-motorized and Vulnerable Transportation System Users," 21st World Congress on Intelligent Transport Systems, Detroit, September 10, Michigan, 2014.
37. Bertini, R.L., "Perspectives on Degrees of Vehicle Connectivity, Automation and Autonomous Vehicles," EV Roadmap 7, Drive Oregon, Portland, Oregon, July 25, 2014.
38. Bertini, R.L., "Portland Metro Performance Measurement," Workshop on Multimodal Performance Measurement in Traffic Signal Systems, 93rd Annual Meeting of the Transportation Research Board, Washington, D.C., January 12, 2014.
39. Bertini, R.L., "Vision for a Connected Transportation Future for All Users," Saving Energy with Connected Vehicles, Oregon Transportation Summit, September 16, 2013.
40. Bertini, R.L., "Perspectives on Federal Agency Leadership," Government Session, 13th COTA International Conference of Transportation Professionals, Shenzhen, China, August 15, 2013.

41. Bertini, R.L., "U.S. Perspectives on a Safe and Sustainable Future Connected Transportation System," Plenary Lecture, 13th COTA International Conference of Transportation Professionals, Shenzhen, China, August 15, 2013.
42. Bertini, R.L., "Retrospect and Prospect," Opening Session Keynote, 13th COTA International Conference of Transportation Professionals, Shenzhen, China, August 14, 2013.
43. Bertini, R.L., "U.S. Perspectives on a Safe and Sustainable Future Connected Transportation System," Performance Assessment of Transportation Networks, Sun Yat-Sen University, Guangzhou Higher Education Mega Center, Guangzhou, China, August 12, 2013.
44. Bertini, R.L., "Enter the PORTAL," You Get What You Measure Workshop, Transportation Research Board Traffic Signal Systems Committee Workshop, Portland, Oregon, July 22, 2013.
45. Bertini, R.L., "ITS for Connected Mobility," Keynote Lecture, Mobil.TUM 2013, International Scientific Conference on Mobility and Transport, Munich, Germany, June 18, 2013
46. Bertini, R.L., "Other Sources for ITS Evaluation Results: U.S. Perspectives," Easyway ITS Evaluation Workshop, Copenhagen, Denmark, November 8, 2012
47. Bertini, R.L., "Innovation in ITS: Federal and University Perspectives," Innovation in ITS, 19th World Congress on Intelligent Transport Systems, Vienna, Austria, October 25, 2012
48. Bertini, R.L., "Structuring Future Research Effort in Road Cooperative Traffic Management from the U.S. Perspective," 5th Network of Excellence for Advanced Road Cooperative Traffic Management in the Information Society (NEARCTIS) Workshop, Vienna, Austria, October 22, 2012.
49. Bertini, R.L. "21st Century Workforce Development: Changing the Way We Think About ITS Education and Training," Nineteenth Intelligent Transportation Systems World Congress, Vienna, Austria, October 2012.
50. Bertini, R.L. "Skills and Competencies for the Operations Workforce," Session 372, Operations Workforce: Agency Needs and Future Directions, 91st Annual Meeting of the Transportation Research Board, Washington, D.C., January 23, 2012
51. Bertini, R.L. "ITS: Why Governments Need to Work Together," Executive Session 10, Eighteenth Intelligent Transportation Systems World Congress, Orlando, Florida, October 19, 2011
52. Bertini, R.L. "Skills and Competencies Needed to Be an ITS Professional," Student Day, Eighteenth Intelligent Transportation Systems World Congress, Orlando, Florida, October 20, 2011
53. Bertini, R.L. "Preparing for a Future with Connected Vehicles and Infrastructure," ITS New York Eighteenth Annual Meeting and Technology Exhibition, What The Future Holds: Intelligent Vehicles and Infrastructure, Saratoga Springs, New York, June 10, 2011.
54. Bertini, R.L. "Strategies for Sustainable Transportation: The Role of National Policy," Developing Global Sustainability - U.S./China Partnerships, 2011 Global Sustainability Conference, University of Michigan, May 20, 2011
55. Bertini, R.L. "ITS Technology to Save Lives," Closing Plenary, Institute of Transportation Engineers 2011 Technical Conference and Exhibit, Lake Buena Vista, Florida, April 6, 2011
56. Bertini, R.L. "Intelligent Transportation Systems Program Update," National Association of Counties (NACo) 2011 Legislative Conference, Washington, D.C., March 5, 2011.
57. Bertini, R.L. "They Promised Us Jetpacks: Transportation and Technology 2050," A 2050 Retrospective on Advance Technology Impacts on Transportation, ASCE First T&I Congress, Chicago, IL, March 14, 2011.
58. Bertini, R.L. "A National Strategic Framework for Transportation Workforce Development," Building the 21st Century Workforce: Mission-Critical Issues, Cross-Modal Opportunities, and Key Partnerships in Transportation Workforce Development, 90th Annual Meeting of the Transportation Research Board, Washington, D.C., January 27, 2011
59. Bertini, R.L. "Senior Level Dialogue with Transportation Students," 90th Annual Meeting of the Transportation Research Board, Washington, D.C., January 25, 2011

60. Bertini, R.L. "State of Intelligent Transportation Systems Programs at the U.S. Department of Transportation" Intelligent Transportation Systems: Annual U.S. State-of-the-Industry Review, 90th Annual Meeting of the Transportation Research Board, Washington, D.C., January 24, 2011
61. Bertini, R.L. "RITA Priorities, Programs and Progress," Future Directions in Transportation: MultiModal Dialogue with U.S. DOT Deputy Administrators, 90th Annual Meeting of the Transportation Research Board, Washington, D.C., January 26, 2011
62. Bertini, R.L. "U.S. DOT Perspectives on International Harmonization: A Key Priority," Session ES11 International Harmonization, 17th World Congress on Intelligent Transport Systems, Busan, Korea, October 29, 2010
63. Bertini, R.L. "Accelerating ITS Deployment," Special Session 69, IBEC Amy Polk Session on International Cooperation to Promote ITS Understanding and Deployment, 17th World Congress on Intelligent Transport Systems, Busan, Korea, October 27, 2010
64. Bertini, R.L. "ITS Professional Capacity Building (PCB) Program: Incorporating a Focus on Technology Transfer, Session TP 046 Tech Transfer, 17th World Congress on Intelligent Transport Systems, Busan, Korea, October 27, 2010
65. Bertini, R.L. "U.S. DOT Perspectives on Inter-Jurisdictional Traffic Data Requirements for ATM and ICM," Special Session 10, Inter-jurisdictional Traffic Data Requirements for ATM and ICM, 17th World Congress on Intelligent Transport Systems, Busan, Korea, October 26, 2010
66. Bertini, R.L. "Transforming Transportation Through Connectivity, Keynote Speech at Opening Ceremony, 17th World Congress on Intelligent Transport Systems, Busan, Korea, October 25, 2010
67. Bertini, R.L. "ITS for the Environment: AERIS Program, 6th International Workshop on Vehicle Communications, Session 3: Sustainability Services Support to Vehicle Communication Based Cooperative Systems, Busan, Korea, October 24, 2010
68. Bertini, R.L. "U.S. Perspectives on International Harmonization of Cooperative Systems Standards," 6th International Workshop on Vehicle Communications, Session 1: Harmonization of Standardization Activities for Cooperative ITS, Busan, Korea, October 24, 2010
69. Bertini, R.L. "U.S. Perspectives on ITS Contributions to Sustainable Transportation," International Symposium on Evaluation Method of CO₂ Emission Reduction with ITS Applications, Japan Women's University Mejiro Campus, October 22, 2010
70. Bertini, R.L. Panelist, International Symposium on Evaluation Method of CO₂ Emission Reduction with ITS Applications, Japan Women's University Mejiro Campus, October 22, 2010
71. Bertini, R.L. "Linking the U.S. DOT ITS Program with the IEEE Community," Plenary Session, 13th International IEEE Conference on Intelligent Transportation Systems, Funchal, Portugal, September 21, 2010.
72. Bertini, R.L. "The Future of Traffic Information, Management and Control," Panel Moderator, Workshop on Emergent Cooperative Technologies in Intelligent Transportation Systems, Funchal, Portugal, September 19, 2010.
73. Bertini, R.L. "Transforming Transportation Through Connectivity: U.S. Perspectives on Cooperative Systems," Keynote Lecture, Workshop on Emergent Cooperative Technologies in Intelligent Transportation Systems, Funchal, Portugal, September 19, 2010.
74. Bertini, R.L. "Perspectives on a Career in Transportation," Student Member Roundtable, Institute of Transportation Engineers 2010 Annual Meeting and Exhibition, Vancouver, B.C., August 9, 2010.
75. Bertini, R.L. "Getting to Smarter, Safer Streets: Intellidrive Conversation Circle," Moderator, Institute of Transportation Engineers 2010 Annual Meeting and Exhibition, Vancouver, B.C., Canada, August 9, 2010.
76. Bertini, R.L. "Report from RITA," AASHTO National Research Advisory Committee Meeting, Kansas City, Missouri, July 27, 2010.
77. Bertini, R.L. "Impacts of Transportation Technologies on Traffic Data Programs," Closing Session, North American Travel Monitoring Exhibition & Conference (NATMEC), Seattle, June 24, 2010.

78. Bertini, R.L. "RITA Update," AASHTO Standing Committee on Planning Annual Meeting, San Antonio, Texas, June 23, 2010.
79. Bertini, R.L. "Transport: An International Endeavor," Opening Plenary, ITS Canada Annual Conference and General Meeting, Ottawa, Canada, June 14, 2010.
80. Bertini, R.L. "Future Transport," Plenary Session, Transport Research Arena Europe 2010, Brussels, June 8, 2010.
81. Bertini, R.L. "Connectivity Enabling Safer, More Efficient and Sustainable Multimodal Transportation," Special Session on Cooperative Systems, Transport Research Arena Europe 2010, Brussels, June 8, 2010.
82. Bertini, R.L. "Innovations in Traffic Management and Implementation of Technologies Across Modes: The Importance of Satellite Navigation and Digital Communications for NextGen ITS, Positive Train Control and Vessel Traffic Management," Moderator, Volpe Center Day at U.S. Department of Transportation, June 2, 2010.
83. Bertini, R.L. "Technology and Policy Perspectives on Sustainable Transportation," Intelligent Transportation Society of America, 20th Annual Meeting & Exposition, Houston, May 4, 2010.
84. Bertini, R.L. "National Transportation Workforce Development Strategy: Ongoing and Planned CUTC-RITA Activities," 90th Annual American Association of Community Colleges Convention, Seattle, Washington, April 19, 2010.
85. Bertini, R.L. "So You Want to Be a Transportation Professional." 89th Annual Meeting of the Transportation Research Board, Washington, D.C., January 11, 2010.
86. Bertini, R.L. "National Transportation Workforce Development Strategy: Ongoing and Planned CUTC-RITA Activities." 89th Annual Meeting of the Transportation Research Board, Washington, D.C., January 14, 2010.
87. Bertini, R.L. "UTC Best Practices—OTREC and Livability." University Transportation Center Directors Summer Meeting, University of Massachusetts, Amherst, Massachusetts, June 30, 2009.
88. Bertini, R.L. "The Future of a Vehicle Miles Traveled (VMT) User Fee." Congressional Fact Finding Panel, ITS America Annual Meeting and Exposition, Washington, D.C., June 1-3, 2009
89. *Saber, M., and Bertini, R.L. "Toward Implementing Weather-Responsive Advanced Traffic Management and Information Systems." 16th World Congress on Intelligent Transport Systems, Stockholm, Sweden, September 21-25, 2009.
90. *Li, H., and Bertini, R.L. "Toward Sustainable Transit Operations and Performance Enhancement Using Archived Automatic Vehicle Location Data." 16th World Congress on Intelligent Transport Systems, Stockholm, Sweden, September 21-25, 2009.
91. *Li, H., Bertini, R.L., and El-Geneidy, A. "Using Archived Stop-Level Transit Data for Assessing Bus Operations and Exploring Optimal Stop Spacing." 11th International Conference on Advanced Systems for Public Transport (CASPT 2009), Hong Kong, July 20-22, 2009
92. Bertini, R.L., *Li, H., and El-Geneidy, A. "Intelligent Transportation Solutions for Planning, Optimizing and Measuring Public Transport Performance," mobil.TUM 2009, International Conference on Mobility and Transport, Munich, Germany, May 12-13, 2009.
93. Bertini, R.L. "Can Sensors Be Used to Provide Accurate Travel Time Information?" Transportation Research Forum, 50th Annual Forum, Portland, Oregon, March 16-18, 2009.
94. Bertini, R.L. "How Transportation Technology Can Limit the Impact of Future Climate Change." Consumer Electronics Show (CES), Las Vegas, Nevada, January 9, 2009.
95. Bertini, R.L. "Exploiting High Resolution Archived Transit Data for Improved Planning and Operations: A Portland, Oregon Case Study." Conference for the Australian Institutes of Transport Research, University of Western Australia, 10-12 December, 2008.
96. *Eshel, O., Bertini, R.L., and Monsere, C. "Empirical Evaluation of Adaptive Ramp Metering Along Two Freeway Corridors in Portland, Oregon." 15th World Congress on Intelligent Transport Systems, New York, NY, November 16-20, 2008.

97. Bertini, R.L., *Fernandez, R., *Wieczorek, J., and *Li, H. "Using Archived ITS Data to Automatically Identify Freeway Bottlenecks in Portland, Oregon." 15th World Congress on Intelligent Transport Systems, New York, NY, November 16–20, 2008.
98. *Fernandez, R., Bertini, R.L., and Maier, D. "Developing an Imputation Strategy for an Archived Data User Service in Portland, Oregon." 15th World Congress on Intelligent Transport Systems, New York, NY, November 16–20, 2008.
99. Bertini, R.L. "Leveraging Intelligent Transportation Systems Data to Improve Transportation Efficiency." Keynote Address, Sixth International Conference on Traffic & Transportation Studies (ICTTS), Nanning, China, August 5–8 2008. 
100. Bertini, R.L. and *Horowitz, Z. "Diagnosing a Freeway Bottleneck in Portland Oregon (USA) Using Archived Sensor Data." 6th International Conference on Traffic & Transportation Studies (ICTTS), Nanning, China, August 5–8 2008.
101. Bertini, R.L. "Perspectives on Traffic Flow Theory: Beyond Greenshields." Panel Discussion, Symposium on The Fundamental Diagram: 75 Years (Greenshields 75 Symposium), Woods Hole, Massachusetts, July 10, 2008.
102. *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
103. Bertini, R.L., *Li, H., *Wieczorek, J. and *Fernandez, R. "Using Archived Data to Systematically Identify and Prioritize Freeway Bottlenecks." 10th International Conference on Application of Advanced Technologies in Transportation, Athens, Greece, May 27– 31, 2008.
104. *Tasnim, S., 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.
105. *Zielke, B., Bertini, R.L., and Treiber, M. "Empirical Measurement of Freeway Oscillation Characteristics: An International Comparison." 87th Annual Meeting of the Transportation Research Board January 2008. 
106. Bertini, R.L. "State of ITS Benchmarking in Portland, Oregon and the U.S." Special Session on ITS in Cities, 14th World Congress on Intelligent Transport Systems, Beijing, October 13, 2007. 
107. Bertini, R.L. "Building Planning and Operations Analysis Tools on an Archived ITS Data Platform: Who Are the Users?" 14th World Congress on Intelligent Transport Systems, Beijing, October 13, 2007. 
108. Makler, J., *Coffman, M., and Bertini, R.L. "Regional Collaboration: A Model for Successful ITS Implementation in Portland, Oregon," 14th World Congress on Intelligent Transport Systems, Beijing, October 11, 2007. 
109. Bertini, R.L. "Toward Optimal Sensor Density for Improved Freeway Travel Time Estimation and Traveler Information," 10th International IEEE Conference on Intelligent Transportation Systems, Seattle, Washington, October 1, 2007. 
110. *Kothuri, S., Bertini, R.L. and Makler, J. "Lessons from Developing an Archived Data User Service in Portland, Oregon: Who Is Using It?" 10th International IEEE Conference on Intelligent Transportation Systems, Seattle, Washington, October 1, 2007. 
111. Bertini, R.L. "So You Want to Be a Transportation Professional," Institute of Transportation Engineers, District 6 Annual Meeting, Portland, Oregon, July 16, 2007.
112. Bertini, R.L. and *Lyman, K. "Developing Improved Travel Time Reliability Measures for Real-Time and Archived ITS Data Applications," 6th European Congress on Intelligent Transportation Systems and Services, Aalborg, Denmark, June 20, 2007. 
113. Bertini, R.L. "Leveraging Archived Freeway Sensor Data for Regional Transportation Performance Measurement." Intelligent Transportation Society of America, 2007 Annual Meeting and Exhibition, Palm Springs, California, June 6, 2007. 

114. Bertini, R.L. "Multimodal Transportation Planning and Engineering Challenges," Joint Engineering Conference, Professional Engineers of Oregon, Bend, Oregon, May 17, 2007.
115. Bertini, R.L. "Lessons from Developing an Archived Data User Service in Portland, Oregon," Linking Archived Data User Service, Performance Measures and Freeway Operations to Improve Mobility, Workshop 124, 86th Annual Meeting of the Transportation Research Board, January 2007.
116. Bertini, R.L. "Improving Collaboration in the Northwest," Annual Meeting of the Council of University Transportation Centers, Washington, D.C., January 2007.
117. Bertini, R.L. "Estimating Truck Flows on a Freeway Network to Improve Freight Operations and Planning," 13th World Congress on Intelligent Transport Systems, London, October 10, 2006.
118. Bertini, R.L. "Influence of Variable Speed Limit and Driver Information System on Key Traffic Flow Parameters on a German Autobahn," 13th World Congress on Intelligent Transport Systems, London, October 10, 2006.
119. Bertini, R.L. "Improving the Accuracy of Freeway Travel Time Estimates Using Archived ITS Data," 13th World Congress on Intelligent Transport Systems, London, October 9, 2006.
120. Bertini, R.L., "Development of an ITS Data Archive Application for Improving Freeway Travel Time Estimation." 9th International IEEE Conference on Intelligent Transportation Systems, Toronto, Canada, September 20, 2006.
121. Bertini, R.L. "Expansion of an ITS Data Archive with Applications for Improving Spatial Analysis and Tracking Non-Recurrent Congestion." 9th International IEEE Conference on Intelligent Transportation Systems, Toronto, Canada, September 20, 2006.
122. Bertini, R.L. "Developing Comparative Congestion Measures to Improve Transportation System Performance." Fifth International Conference on Traffic & Transportation Studies (ICTTS), Xi'an, China, August 2, 2006.
123. Bertini, R.L. "Unlocking the Mysteries of Freeway Sensor Data to Diagnose Detailed Bottleneck Dynamics." Fifth International Conference on Traffic & Transportation Studies (ICTTS), Xi'an, China, August 3, 2006.
124. *Boice, S., Bertini, R.L. and Bogenberger, K. "Comparison of Key Freeway Capacity Parameters on North American Freeways with German Autobahns Equipped with a Variable Speed Limit System." 5th International Symposium on Highway Capacity and Quality of Service, Yokohama, Japan, July 26, 2006.
125. Bertini, R.L. and Makler, J. "Using Real Time Transportation System Performance Measures to Fuel a Regional Congestion Management System," Institute of Transportation Engineers, District 6 Annual Meeting, Honolulu, Hawaii, June 26, 2006.
126. Bertini, R.L., "Speeding and Speed Limits: Are Drivers Out of Control?" First International Symposium on Freeway & Tollway Operations, Athens, Greece, June 6, 2006.
127. Bertini, R.L., *Boice, S. and Bogenberger, K. S. "Measuring the Impacts of a Variable Speed Limit System on a German Motorway." First International Symposium on Freeway & Tollway Operations, Athens, Greece, June 6, 2006.
128. Bertini, R.L. and *Kothuri, S. "Improving Travel Time Estimation for Freeway Traffic Management and Traveler Information Systems." First International Symposium on Freeway & Tollway Operations, Athens, Greece, June 7, 2006.
129. Bertini, R.L., "Portal: Implementing an Archived Data User Service in Oregon," Northwest Transportation Conference, Corvallis, Oregon, February 8, 2006.
130. Bertini, R.L., "A New National University Transportation Center in Oregon," Northwest Transportation Conference, Corvallis, Oregon, February 8, 2006.
131. Bertini, R.L., "You Are the Traffic Jam: An Examination of Congestion Measures." 85th Annual Meeting of the Transportation Research Board, January 2006.
132. Bertini, R.L., "New Research Initiatives at the National University Transportation Center," Oregon Modeling Symposium, Portland, Oregon, November 15, 2005.

133. Bertini, R.L., *Hansen, S., *Matthews, S. and *Delcambre, A. "PORTAL: Implementing a New Generation Archived Data User Service in Portland, Oregon." 12th World Congress on Intelligent Transport Systems, San Francisco, November 8, 2005. 
134. Bertini, R.L., Bogenberger, K. and *Boice, S. "Impact of Variable Speed Limit and Driver Information System on Traffic Dynamics on a German Autobahn: Lessons for U.S. Applications." 12th World Congress on Intelligent Transport Systems, San Francisco, November 9, 2005. 
135. Bertini, R.L., *Lasky, M. and Monsere, C. "Validating an Automated License Plate Recognition System for Predicting Rural Corridor Travel Times." 12th World Congress on Intelligent Transport Systems, San Francisco, November 10, 2005. 
136. Bertini, R.L., *Boice, S. and Bogenberger, K. "Using ITS Data Fusion to Examine Traffic Dynamics on a Freeway with Variable Speed Limits." 8th International IEEE Conference on Intelligent Transportation Systems, Vienna, Austria, September 13-16, 2005.
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139. Bertini, R.L., *Lasky, M. 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.
140. Bertini, R.L., *Hansen, S. and *El-Geneidy, A. "Using the Portland Regional Transportation Archive Listing (PORTAL) to Measure the Performance of the Portland, Oregon Regional Transportation System." 9th International Conference on Computers in Urban Planning and Urban Management Conference (CUPUM), London, June 29, 2005.
141. Bertini, R.L., Monsere, C., *El-Geneidy, A., Kimpel, T. and *Bosa, P. "Exploring Spatial and Temporal Performance Measurement in Metropolitan Transportation Safety Improvement Programs." 9th International Conference on Computers in Urban Planning and Urban Management Conference (CUPUM), London, June 29, 2005.
142. Bertini, R.L. "Educational Applications of the Portland Oregon Regional Archived Data User Service," American Society for Engineering Education Annual Meeting, Portland, Oregon, June 14, 2005.
143. Bertini, R.L., *Hansen, S. and Bogenberger, K. "Empirical Analysis of Traffic Sensor Data Surrounding a Bottleneck on a German Autobahn." 84th Annual Meeting of the Transportation Research Board, January 2005.
144. Monsere, C., *Nolan, C., Bertini, R., Anderson, E. and *El-Seoud, T. "Measuring the Impacts of Speed Reduction Technologies: A Dynamic Advanced Curve Warning System Evaluation." 84th Annual Meeting of the Transportation Research Board, January 2005.
145. *Byrne, N., Koonce, P., Bertini, R.L., *Pangilinan, C. and *Lasky, M. "Using Hardware-in-the-Loop Simulation to Evaluate Signal Control Strategies for Transit Signal Priority." 84th Annual Meeting of the Transportation Research Board, January 2005.
146. Bertini, R.L., *Hansen, S., *Byrd, A. and *Yin, T. "PORTAL: Experience Implementing the ITS Archived Data User Service in Portland, Oregon." 84th Annual Meeting of the Transportation Research Board, January 2005.
147. Astarita, V., Bertini, R.L. and *Guido, G. "The Estimation of Traffic Flow Parameters from Instrumented Vehicles Counts." 84th Annual Meeting of the Transportation Research Board, January 2005.
148. Bertini, R.L. and *Myton, A. "Using PeMS Data to Empirically Diagnose Freeway Bottleneck Locations in Orange County, California." 84th Annual Meeting of the Transportation Research Board, January 2005.

149. Bertini, R.L., Monsere, C., *Byrd, A., *Rose, M. and *El-Seoud, T. "Using Custom Transportation Data Collection Software with Handheld Computers for Education, Research, and Practice." 84th Annual Meeting of the Transportation Research Board, January 2005.
150. Bertini, R.L., *Rose, M. and *El-Geneidy, A. "Using Archived ITS Data Sources to Measure the Effectiveness of a Freeway Incident Response Program." 84th Annual Meeting of the Transportation Research Board, January 2005.
151. Bertini, R.L. "Congestion and Its Extent." Access to Destinations: Rethinking the Transportation Future of our Region, University of Minnesota, November 8, 2004.
152. Bertini, R.L. and *El-Geneidy, A. "Empirical Techniques for Improving the Performance of Ramp Control Systems Using Archived ITS Data." 11th World Congress on Intelligent Transport Systems, Nagoya, Japan, October 21, 2004.
153. Bertini, R.L. and *Rose, M. "Using Archived ATMS Data for the Performance Evaluation of a Freeway Incident Response Program." IEEE 7th Annual Conference on Intelligent Transportation Systems, Washington, D.C., October 4, 2004.
154. *El-Geneidy, A. and Bertini, R.L. "Toward Validation of Freeway Loop Detector Speed Measurements Using Transit Probe Data." IEEE 7th Annual Conference on Intelligent Transportation Systems, Washington, D.C., October 5, 2004.
155. *Yin, T., Bertini, R.L. and *Byrd, A. "Implementing the ITS Archived Data User Service in Portland, Oregon." IEEE 7th Annual Conference on Intelligent Transportation Systems, Washington, D.C., October 4, 2004.
156. Bertini, R.L. "Multimodal ITS Data Integration and Performance Measurement in Portland, Oregon." North American Travel Monitoring Exhibition & Conference, San Diego, June 27-30, 2004.
157. Bertini, R.L. "Using ITS Data to Measure Arterial Travel Time in Portland." North American Travel Monitoring Exhibition & Conference, San Diego, California, June 27-30, 2004.
158. Bertini, R.L. "Regional Data Archive and Performance Measures." North American Travel Monitoring Exhibition & Conference, San Diego, California, June 27-30, 2004.
159. *Nolan, C. and Bertini, R.L. "Examination of the Impact of Speed Upon Highway Safety: An Oregon Perspective." Institute of Transportation Engineers, District 6 Annual Meeting, Sacramento, California, June 21, 2004.
160. Bertini, R.L. "Enhancing Transportation Education." Panel Discussion, Institute of Transportation Engineers, District 6 Annual Meeting, Sacramento, California, June 21, 2004.
161. Koonce, P. and Bertini, R.L. "Blueprint for Evaluation and Improvement of Transit Signal Priority: A Portland Case Study." Institute of Transportation Engineers, District 6 Annual Meeting, Sacramento, California, June 22, 2004.
162. Bertini, R.L., *Byrd, A. and *Yin, T. "Developing a Transportation Data Archive for the Portland Metropolitan Area." Institute of Transportation Engineers, Quad Conference, Portland, Oregon, April 23, 2004.
163. *Rose, M. and Bertini, R.L. "Using Archived ITS Data Sources to Measure the Effectiveness of a Freeway Incident Response Program." Institute of Transportation Engineers, Quad Conference, Portland, Oregon, April 23, 2004.
164. Koonce, P. and Bertini, R.L. "The Importance of Bus Stop Location for Signal Priority." Institute of Transportation Engineers, Quad Conference, Portland, Oregon, April 23, 2004.
165. Bertini, R.L. and *Rose, M. "Evaluation of the COMET Incident Response Program." Northwest Transportation Conference, Oregon Department of Transportation, February 2004.
166. Bertini, R.L. and *Malik, S. "Observed Dynamic Traffic Features On a Freeway Section with Merges and Diverges." 83rd Annual Meeting of the Transportation Research Board, January 2004.
167. Bertini, R.L. and *Tantiyanugulchai, S. "Transit Buses as Traffic Probes: Empirical Evaluation Using Geo-Location Data." 83rd Annual Meeting of the Transportation Research Board, January 2004.

168. Bertini, R.L., *Lindgren, R., Helbing, D. and Schonhof, M. "Empirical Analysis of Flow Features on a German Autobahn." 83rd Annual Meeting of the Transportation Research Board, January 2004.
169. Bertini, R.L. "Toward the Systematic Diagnosis of Freeway Bottleneck Activation," IEEE 6th Annual Conference on Intelligent Transportation Systems, Shanghai, China, October 2003.
170. Bertini, R.L. and *Tantiyanugulchai, S. "Arterial Performance Measurement Using Transit Buses as Probe Vehicles," IEEE 6th Annual Conference on Intelligent Transportation Systems, Shanghai, October 2003.
171. Bertini, R.L. "Crash Data Reporting and Analysis – An Oregon Pilot Study." Institute of Transportation Engineers 2003 Annual Meeting, Seattle, Washington, August 25, 2003.
172. Bertini, R.L. "Integrating Geographic Information Systems and Intelligent Transportation Systems to Improve Incident Management and Life Safety." Eighth International Conference on Computers in Urban Planning and Urban Management (CUPUM), Sendai, Japan, May 2003.
173. Bertini, R.L., *Leal, M. and *Lindgren, R. "Examination of Features of a Freeway Bottleneck Surrounding a Lane Drop," 82nd Annual Meeting of the Transportation Research Board, January 13, 2003.
174. Bertini, R.L. and *El-Geneidy, A.M. "Using Archived Data to Generate Transit Performance Measures," 82nd Annual Meeting of the Transportation Research Board, January 13, 2003.
175. Bertini, R.L. "Analysis of Oregon's Rural Incident Response Program Using Archived ITS Data," Ninth World Congress on Intelligent Transport Systems, Chicago, Illinois, October 18, 2002.
176. Bertini, R.L. and Rufolo, T. "Alternatives to the Motor Fuel Tax." Northwest Transportation Conference, Funding Transportation Panel, Corvallis, Oregon, February 6, 2002.
177. Bertini, R.L. "Evaluation of ODOT's Region 2 Incident Management Program." Northwest Transportation Conference, Corvallis, Oregon, February 7, 2002.
178. Bertini, R.L., "Generating Performance Measures from Portland's Archived Advanced Traffic Management System Data." 81st Annual Meeting of the Transportation Research Board, January 16, 2002.
179. Bertini, R.L. "Time Dependent Traffic Flow Features at a Freeway Bottleneck." Workshop on Doctoral Student Research in Transportation Modeling, 78th Annual Meeting of the Transportation Research Board, January 1999.
180. Cassidy, M.J. and Bertini, R.L. "Some Traffic Features at Freeway Bottlenecks." 3rd International Symposium on Highway Capacity, Transportation Research Board, Copenhagen, June 1998.
181. Bertini, R.L. "Freeway Incident Characteristics." Institute of Transportation Engineers, District 6 Annual Meeting, San José, California, July 1998.
182. Bertini, R.L. "Time Dependent Traffic Flow Features at Freeway Bottlenecks." Eisenhower Research Presentation, 77th Annual Meeting of the Transportation Research Board, January 1998.
183. Skabardonis, A. and Bertini, R.L. "The Los Angeles Freeway Service Patrol Evaluation." Conference on Traffic Management and Planning for Freeway Emergencies and Special Events, 76th Annual Meeting of the Transportation Research Board, January 1997.
184. Skabardonis, A. and Bertini, R.L. "Determination of Timings in Signal Systems with Traffic Actuated Controllers." 75th Annual Meeting of the Transportation Research Board, January 1996.
185. Bertini, R.L. "Tasman Corridor Light Rail Design." Chi Epsilon, Civil Engineering Honor Society, Pacific District Conference, Technical Session Speaker, San José, California, 1994.
186. Bertini, R.L. "Rail Corridor Evolution: The Development of the San Francisco – San José Corridor." 72nd Annual Meeting of the Transportation Research Board, January 1993.
187. Bertini, R.L., Botha, J.L., Colman, S.B. and McKean, P. "The Rail Transit/Land Use Synergism–Case Study of the San Francisco Bay Area." 72nd Annual Meeting of the Transportation Research Board, January 1993.

GRANTS

External Sources

University of South Florida

1. U.S. Department of Transportation, Office of the Secretary of Transportation for Research and Technology (OST-R), National Institute for Congestion Reduction (NICR) National University Transportation Center, \$7,500,000 (+ match for total of \$15,000,000), 2019–2022, PI.
2. USF Commuter Assistance: Safe and Connected Campus Community Testbed, Florida Department of Transportation (FDOT), \$89,000, 2019–2020, PI (submitted).
3. Toward a Florida Automated, Connected, Electric and Shared (ACES) Transportation System Roadmap: Phase I, Florida Department of Transportation (FDOT), \$200,000, 2019–2020, PI.
4. City of Tampa, Tampa Bay Smart Cities Alliance, \$25,000, 2018–2019, PI.
5. Pollution and Equity Impacts of Proposed Freeway Expansion from a Health in All Policies Perspective, Center for Transportation, Environment and Community Health (CTECH), Cornell University, \$60,531, 2018–2019, co-PI with A. Stuart.
6. South County Integrated Mobility Solutions and Investment Strategy: Phase 1, Hillsborough County, \$130,866, 2018–2019, co-PI with K. Williams.
7. Arizona State University, University of Texas at Arlington, San José State University, North Dakota State University, Journal of Public Transportation, \$20,000, 2018-2019, PI.
8. Mineta Transportation Institute, San José State University, Attract and Retain Women in the Transportation Industry, \$4,997, co-PI with J. Godfrey.
9. Federal Highway Administration, Trajectory Investigation for Enhanced Microsimulation Calibration Guidance, subcontractor to Leidos, \$75,575, 2018-2019, Investigator w/PI X. Li.
10. Center for Transportation, Environment, and Community Health (CTECH), Cornell University, Developing a Prototype for a Tampa Bay Regional Data Archive, \$35,741, 2016–present, PI
11. City of Tampa, Tampa Bay Smart Cities Alliance, \$25,000, 2017–2018, PI.
12. Center for Transportation Equity, Decisions and Dollars (CTEDD), University of Texas at Arlington, Improving Transportation Performance Measurement via Open “Big Data” Systems – Phase 1 Transit, \$65,000, 2017–2019, Co-PI with S. Barbeau.
13. National Institute for Transportation and Communities, Portland State University, NITC Conference Travel Funding, \$12,500, 2016–2018, PI.
14. National Center for Transit Research (NCTR), Tier I University Transportation Center, U.S. Department of Transportation (DOT), \$1,645,210, 2016-2020, PI.
15. Federal Highway Administration, Transportation System Simulation Manual, subcontractor to Leidos, \$57,000, 2016–2020, PI.
16. Federal Highway Administration, National Capability Assessment in Traffic Analysis Fundamentals and Development of a Model Curriculum on Performance-Based Planning for TSMO, subcontractor to Leidos, \$24,055, 2016–2018

California Polytechnic State University San Luis Obispo

1. Metropolitan Transportation Commission, Capacity on San Francisco Bay Bridge, Co-PI w/A. Pande, \$10,000, 2016.
2. Oregon Department of Transportation (ODOT), Evaluation of Variable Speed Limit/Variable Advisory Speed Systems, \$15,550, 2014–2015, Subcontract to PSU, PI.
3. Oregon Department of Transportation (ODOT), Preparing a Possible Oregon Road Map for Connected Vehicle/Cooperative Systems Deployment Scenarios, \$82,000, 2014–2015, PI.
4. NITC, Exploiting New Data Sources to Quantify Arterial Congestion and Performance Measures at a Regional Scale, \$36,000, 2014–2015, Subcontract to PSU, Co-PI.

5. Federal Highway Administration (FHWA), Transportation System Simulation Manual, subcontractor to Kittelson & Associates, Inc., \$15,489, 2014–2015, PI.

Portland State University

1. U.S. DOT Research and Innovative Technology Administration (RITA), Oregon Transportation Research and Education Consortium (OTREC) National University Transportation Center, \$7,428,100 (+ match for total of \$14, 856,200), 2006–09, PI. Since 2006 UTC brought more than \$20 million to PSU plus match.
2. National Institute for Transportation and Communities (NITC), Connecting Vehicles and Multimodal Transportation, \$60,000, 2014–2016, PI.
3. Oregon Department of Transportation (ODOT), Improving Active Traffic Management in Urban and Rural Locations: Evaluation of Variable Speed Limit/Variable Advisory Speed Systems, \$84,000, 2013–2015, PI.
4. ODOT, Preparing a Possible Oregon Road Map for Connected Vehicle/Cooperative Systems Deployment Scenarios, \$150,000, 2013–2015, PI.
5. ODOT/Metropolitan Transportation Improvement Program (MTIP), PORTAL Data Archive \$226,234, 2009–2011, Co-PI with K. Tufte.
6. Oregon Transportation Research and Education Consortium (OTREC), Exploiting a Next Generation ITS Data Warehouse for Improved System Performance and Congestion Monitoring, \$170,000, 2009–2011, Co-PI with D. Maier and K. Tufte.
7. OTREC, Value of Reliability, \$454,917, 2007–2009, Co-PI with D. Levinson and M. Figliozzi.
8. Federal Highway Administration (FHWA) Transportation Education Development Pilot Program, Development, Deployment, and Assessment of a New Educational Paradigm for Transportation Professionals and University Students, \$229,946, 2008–2010, PI of subcontract with C. Monsere and M. Kyte.
9. OTREC, Oregon Freight Data Mart, \$120,036, 2007–2008, Co-PI with M. Figliozzi.
10. OTREC and ODOT, Using Archived ITS Data to Measure the Operational Benefits of a System-wide Adaptive Ramp Metering System, \$252,960, 2007–2008, Co-PI with C. Monsere and L. Zhang.
11. OTREC, Characteristics of Transitions in Freeway Traffic, \$107,465, 2007–2008, Co-PI with S. Ahn.
12. National Science Foundation (NSF), Exploiting Live Plus Archive Data for Intelligent Transportation Systems, \$410,670, 2006–2008, Co-PI with D. Maier.
13. ODOT, Visiting Scholar Transportation Seminar Series, \$3,000, 2005–2006, PI.
14. ODOT, Using Existing ITS Commercial Vehicle Operation (ITS/CVO) Data to Develop Truck Travel Time Estimates and Other Freight Measures, \$85,301, 2006–2007, Co-PI with C. Monsere.
15. ODOT, Dynamic Travel Time Estimation Using Regression Trees, \$25,508, 2005–2007, PI of subcontract with R. Logendran.
16. BMW Group, Stage 1 Empirical Evaluation of Alternative North American Traffic Information Solutions, \$78,401, 2005, PI.
17. ODOT/MTIP, Freight Data Collection Infrastructure and Archive System, \$179,000, 2006, PI.
18. BMW Group, Congestion and Its Extent: An International Analysis of Congestion Definitions, \$36,000, 2005, PI.
19. ODOT, Visiting Scholar Transportation Seminar Series, \$3,000, 2004–2005, PI.
20. U.S. Department of Transportation (U.S. DOT), Portland State University Center for Transportation Studies Intelligent Transportation Research Initiative, \$400,000, 2005–2006, PI.
21. ODOT, Evaluation of Freeway Travel Time Estimates, \$39,775, 2004–2005, PI of subcontract, with Castle Rock Consultants.
22. FHWA, Integrated Transportation System Freeway Travel Time Study, \$15,000, 2004. PI.
23. Federal Transit Administration (FTA), Great Cities Universities Local Transit Innovations, \$15,312, 2004, PI of subcontract with University of Wisconsin Milwaukee.

24. ODOT, ODOT Region 1 ITS Implementation and Operations Plan, \$10,000, 2005, PI of subcontract with Parametrix.
25. NCHRP 8-36B Task 52 AASHTO Standing Committee on Planning, Changes in Travel Behavior/Demand Associated with Managed Lanes Facility System Expansion, \$10,000, 2005, PI of subcontract with Kittelson & Associates, Inc.
26. U.S. DOT, Portland State University Intelligent Transportation Research Initiative, \$344,633, 2004–2005, PI.
27. ODOT, Impacts and Issues Related to Changes in Interstate Speed Limits, \$41,791, 2004, Co-PI with C. Monsere.
28. City of Portland, Community and School Traffic Safety Partnership Research and Evaluation, \$40,589, 2004–2005, Co-PI with C. Monsere.
29. U.S. DOT, TransNow University Transportation Center, Techniques for Mining Truck Data to Improve Freight Operations and Planning, \$122,442, 2003–2005, PI, with R. Fountain.
30. ODOT, Update and Enhancement of ODOT's Crash Reduction Factors, \$60,000, 2003–2005, Co-PI with K. Hunter-Zaworski and C. Monsere.
31. City of Portland, Transit Signal Priority Evaluation, \$24,656, 2003–2005, PI of subcontract with and Kittelson & Associates, Inc.
32. NSF, CAREER: Mining Archived Intelligent Transportation Systems Data: A Validation Framework for Improved Performance Assessment and Modeling, \$433,000, 2003–2008, PI.
33. BMW Group, Empirical Comparison of German and U.S. Traffic Sensor Data and Impact On Driver Assistance Systems, \$60,000, 2003, PI.
34. ODOT, Region 1 Intelligent Transportation Systems (ITS) TransPort Support, \$6,960, 2003, PI.
35. ODOT, Evaluation of Variable Speed Limits, \$11,000, 2002–2003, PI.
36. ODOT, Institutional and Technology Options for VMT Data and Fee Collection Centers, \$64,906, 2002, Co-PI with T. Rufolo & K. Karavanic.
37. FHWA, Frontier Project Evaluation of Video Recognition Travel Time System, \$11,070, 2002, PI of subcontract with Montana State University.
38. ODOT, Measuring the Impacts of Speed Reduction Technologies on Highway Safety, \$90,000, 2002–2003, PI.
39. U.S. DOT/TransNow/ODOT, Using Archived Data to Measure Operational Benefits of ITS Investments, \$84,092, 2001–2003, PI.
40. FTA/University of Alabama, Great Cities Prototype for Advanced Public Transit Systems in Multimodal Corridors, \$221,435, 2002–2003, PI.
41. ODOT, Alternatives to the Motor Fuel Tax Phase I: Identification of Economic/ Institutional & Technology Issues, \$60,568, 2001, Co-PI with T. Rufolo.
42. ODOT, Evaluation of Region 2 Incident Response Program, \$23,962, 2001, PI.
43. FTA/Weststart, Bus Rapid Transit and the American Community Design Competition, \$1,000, 2001, PI.
44. City of Portland, Traffic Signal Pole Failure Testing, \$1,005, 2001, PI.
45. ODOT, Evaluation of Paramics Microsimulation Software, \$2,000, 2001–2002, PI.
46. Innovative Transportation Concepts, Evaluation of VISSIM Microsimulation Software, \$5,000 (In-kind), 2001–2002, PI.

Internal Sources

California Polytechnic State University San Luis Obispo

1. Cal Poly San Luis Obispo College of Engineering Returned Indirect Cost (R-IDC) Award, "Real time Multimodal Travel Time Measurement, Archiving and Reporting Project, \$4,800, 2014–2015.


Portland State University

1. PSU Faculty Enhancement Grant, Improving Transportation Demand Modeling in the Portland Region with Automatic Empirical Speed-Flow Relations Generated from Archived Sensor Data \$9,305, 2009, PI.
2. Portland State University (PSU), Professional Travel Grant, \$1,500, 2009, PI.
3. PSU Office of Information Technologies, Capital Funds Grant for Student Access Technology Projects, \$15,000, 2003, PI.
4. PSU, Professional Travel Grant, \$800, 2003, PI.
5. PSU Faculty Enhancement Award, Oregon Intelligent Transportation System Monitoring/Evaluation Prototype, \$7,505, 2001–2002, PI.
6. PSU Scholarship of Teaching Resource Team, Intelligent Systems Laboratory Assessment, \$800, 2001–2002, PI.
7. PSU College of Engineering & Computer Science, Intelligent Transportation Systems CCTV Fiber Optics Connection, \$13,000, 2001, PI.
8. PSU, Professional Travel Grant, \$200, 2001, PI.
9. PSU Faculty Development Grant, Transportation Research Laboratory, \$1,250, 2000, PI.

GRADUATE STUDENTS

Doctoral Students

Chaired Doctoral Degree

1. Roger Lindgren, Ph.D., Civil & Environmental Engineering, "Analysis of Flow Features in Queued Traffic on a German Freeway," 2005. 
2. Eren Yuksel, Ph.D., Civil and Environmental Engineering, "TBA," University of South Florida, 2018–Present.

Doctoral Dissertation Committee Member

1. Hualong Tang, Ph.D. Candidate, Civil and Environmental Engineering, University of South Florida, "Flight Trajectory Planning for Urban Air Mobility," 2019–present
2. Zhiqiang (Adam) Wu, Ph.D. Candidate, Civil and Environmental Engineering, University of South Florida, "Urban Air Mobility," 2019–present
3. Natalia Barbour, Ph.D. Candidate, Civil and Environmental Engineering, University of South Florida, "Statistical Analysis of the Role of Socio-Economic and Health Factors in Shared Mobility Related Behaviors and Usage Likelihoods," 2017–2019.
4. Amir Ghiasi, Ph.D., Civil and Environmental Engineering, University of South Florida, "Connected Autonomous Vehicles: Capacity Analysis, Trajectory Optimization and Speed Harmonization" 2017–2018
5. Williams Ackaah, Ph.D., Civil Engineering, Institut für Verkehrswesen und Raumplanung
6. Universität der Bundeswehr München, "Empirical Analysis of Real-Time-Traffic-Information for Navigation and the Variable Speed Limit System," 2015–2016.
7. Alexander Y. Bigazzi, Ph.D., Civil & Environmental Engineering, "Measuring Urban Bicyclists' Uptake of Traffic-related Pollution," 2012–2014.
8. Asia Spilotos, Ph.D., Urban Studies, "Consequences of Implementing Different Cordon Tolls on Travel Choices and Land Use," 2013–2019.
9. Sirisha Kothuri, Ph.D., Civil & Environmental Engineering, "Incorporating Pedestrian Considerations into Signal Timing," 2012–2014.
10. Wei Feng, Ph.D., Civil & Environmental Engineering, "A Study of the Impact of Traffic Conditions and Intersections on Transit Travel Time, Service Reliability, and Real-time Control Strategies," 2012–2014.

11. Femke van Wageningen-Kessels, Ph.D., Civil Engineering, Delft University of Technology, "Multi-class Continuum Traffic Flow Models: Analysis and Simulation Methods," 2013.
12. Thomas Schreiter, Ph.D., Civil Engineering, Delft University of Technology, "Vehicle-class Specific Control of Freeway Traffic," 2013.
13. Raymond Hoogendoorn, Ph.D., Civil Engineering, Delft University of Technology, "Empirical Research and Modeling of Longitudinal Driving Behavior under Adverse Conditions," 2012.
14. Thijs Muizelaar, Ph.D., Universiteit Twente, the Netherlands, "Non-recurrent Traffic Situations and Traffic Information: Determining Preferences and Effects on Route Choice," 2011.
15. Qing Ou, Ph.D., Civil Engineering, Delft University of Technology, "Fusing Heterogeneous Traffic Data: Parsimonious Approaches Using Data-Data Consistency," 2011.
16. Jin Li, Ph.D., Computer Science, "Windowed Queries Over Data Streams," 2008.
17. James Terwilliger, Ph.D., Computer Science, "The User Interface is the Conceptual Model," 2008.
18. Chansung Kim, Ph.D., Urban Studies, "Interrelationships Among Workplace Relocation, Residential Relocation and Commuting," 2005.
19. Ali Eghtedari, Ph.D., Systems Science: Civil Engineering, "Measuring the Benefits of an Adaptive Signal Control System," 2005.

Doctoral Comprehensive Examination Committee

1. Ahmed M. El-Geneidy, Ph.D., Urban Studies, Portland State University, 2003.
2. Alex Bigazzi, Ph.D., Civil and Environmental Engineering, Portland State University, 2012.

Doctoral Student Research Advisor

1. Jaturapat Bhiromkaew, Ph.D., Urban Studies, Portland State University, 2002.
2. Ahmed El-Geneidy, Ph.D., Urban Studies, Portland State University, 2001-03.
3. Paul Bender, Ph.D., Urban Studies, Portland State University, 2003-04.
4. Rafael Fernandez-Moctezuma, Ph.D., Computer Science, Portland State University, 2006-2009 (w/D. Maier).
5. Heiko Jentsch, Visiting Ph.D., Darmstadt University of Technology, Germany, 2008.
6. Qing Ou, Ph.D., Visiting Ph.D., Delft University of Technology, The Netherlands, 2008.

Post-Doctoral Fellows Supervised

1. Nikhil Menon, Post-Doctoral Research Associate, University of South Florida, 2017-Present.
2. Kristin Tufte, Post-Doctoral Research Associate, 2005-2007.
3. Soyoung Ahn, Post-Doctoral Research Associate, 2005-2006.
4. Tarek El-Seoud, Post-Doctoral Research Associate, University of Cairo, Egypt, 2002-2004.

Master's Students

M.S. Thesis Advisor

1. Lori Palao, M.S. Civil and Environmental Engineering, "Bike Sharing," University of South Florida, 2019-Present.
2. Brian Staes, M.S., Civil and Environmental Engineering, "Toward a Comprehensive Multimodal Transportation Data Archive for the Tampa Bay Region," University of South Florida, 2018-Present.
3. Richard Driscoll, M.S., Civil and Environmental Engineering, "Factors Influencing Household Related Vehicle Miles of Travel," University of South Florida, 2017-2018.
4. Eren Yuksel, M.S., Civil and Environmental Engineering, "Heavy Vehicle Classification Analysis Using Length-Based Vehicle Count and Speed Data," University of South Florida, 2017-2018.
5. Kurt Lehmann, M.S., Civil and Environmental Engineering, "Understanding the Effects of Demographic and Socio-Economic Factors on Public Transit Ridership Trends," University of South Florida, 2017-2018.

6. Daniel Kress, M.S. Transportation, "Variable Speed Limit Systems: Algorithms and Implementations: A Worldwide Overview," Universität der Bundeswehr München, 2014
7. Kevin Carstens, M.S., Civil and Environmental Engineering, "Increasing Short-Term Capacity on the San Francisco-Oakland Bay Bridge," California Polytechnic State University, 2015–2016.
8. Krista Purser, M.S., Civil and Environmental Engineering, "Exploring Travel Time Reliability Using Bluetooth Data Collection," California Polytechnic State University, 2015–2016.
9. Bobby Sidhu, M.S., Civil and Environmental Engineering, "Exploring Data-Driven Models of Transit Travel Time and Delay," California Polytechnic State University, 2015–2016.
10. Alex Chambers, M.S., Civil and Environmental Engineering, "Before-and-After Crash Analysis of a Variable Advisory Speed Limit System," California Polytechnic State University, 2015–2016.
11. Gary Riggins, M.S., Transportation, Technical University of Munich, Germany, "Time-based Scoring of Driver Compliance to Variable Speed Limit Systems," 2015.
12. Nicholas Bleich, M.S. Engineering (Transportation) and MCRP, "Using Archived Transit Data to Analyze the effect of Rainfall on transit Performance Measures at the Route Level," California Polytechnic State University, 2014–2015.
13. Matthew Downey, M.S., Civil & Environmental Engineering, "Effects of Variable Advisory Speed System on Bottleneck Formation and Characteristics," Portland State University, 2014–2015.
14. Tom Kristeleit, M.S. Transportation, "Analysis and Evaluation of Ramp Metering Algorithms," Universität der Bundeswehr München, 2014
15. Michael Wolfe, M.S., Civil & Environmental Engineering, "The Effects of Data Aggregation on Measuring Arterial Performance," Portland State University, 2009.
16. Benjamin Auffray, M.S., Transportation, L'ecole nationale des travaux publics d'Etat (ENTPE), France, "Impact of Adverse Weather on Traffic Conditions on an American Highway: Effect of Sun Glare on Traffic Flow," 2007.
17. Benjamin Zielke, M.S., Transportation, Technical University of Dresden, Germany, "Identification of Country Specific Characteristics of Oscillating Congested Traffic," 2007.
18. Sutti Tantiyanugulchai, M.S., Civil & Environmental Engineering, "Arterial Performance Measurement Using Transit Buses as Probe Vehicles," Portland State University, 2003. 📄

M.S. Research Project Advisor

1. Amanda Owings, M.S., Civil & Environmental Engineering, "Evaluation of Oregon's Formula for Section 5311 Funding Allocation," Portland State University, 2009
2. Leah S. Tomlinson, M.S., Civil & Environmental Engineering, "Orange County Empirical Analysis: Using Loop Detector Data to Identify Bottleneck Locations and Characteristics," Portland State University, 2008
3. Lynn Peterson, M.S., Civil & Environmental Engineering, "Sub-Area Transportation System/Land Use Scenario Modeling," Portland State University, 2008
4. Monica Leal, M.S., Civil & Environmental Engineering, "Empirical Analysis of Traffic Flow Features of a Freeway Bottleneck Surrounding a Lane Drop," Portland State University, 2002 📄
5. Shazia Malik, M.S., Civil & Environmental Engineering, "Observed Dynamic Traffic Features on a Freeway Section with Merges and Diverges," Portland State University, 2003 📄
6. Aaron Myton, M.S., Civil & Environmental Engineering, "I-405 Freeway Bottleneck Analysis," Portland State University, 2004. 📄
7. Nivedita Doijode, M.S., Civil & Environmental Engineering, "Freeway Bottleneck Video Analysis," Portland State University, 2005

M.S. Comprehensive Examination Chair/Member

1. Kaylinn Roseman, M.S., Civil & Environmental Engineering, California Polytechnic State University, 2015

Master's Thesis Committee Member

1. Talha Kocak, Master of Public Health (MPH), "Investigating Air Pollution and Equity Impacts of a Proposed Comprehensive Transportation Program for Tampa," University of South Florida, 2018–2019.
2. Darryl Michaud, M.S., Civil and Environmental Engineering, "Driver Distraction in Microsimulation of a Mid-Block Pedestrian Crossing," Portland State University, 2018.
3. Divyakant Tahlyan, M.S., Civil and Environmental Engineering, "Route Choice Modeling using Large Streams of Truck GPS Data," University of South Florida, 2017–2018.
4. Trang Luong, M.S., Civil and Environmental Engineering, "Comprehensive Exploratory Analysis of Truck Route Choice Diversity in Florida," University of South Florida, 2017.
5. Travis Low, M.S., Civil and Environmental Engineering, "Early Empirical Evidence for the Effects of Adaptive Ramp Metering on Measures of Travel Time Reliability," California Polytechnic State University, 2016–2017.
6. Edward Tang, M.S., Civil and Environmental Engineering, "Quantifying Impact of Truck Only Lanes on Vehicular Emissions on a Limited-Access Highway," California Polytechnic State University, 2015–2017.
7. Douglas Moody, M.S., Civil and Environmental Engineering, "Prioritizing Fixed-Route Bus Stop Improvements," California Polytechnic State University, 2014–2016
8. Sara Steinberger, Master of City and Regional Planning, "Bicycle and Pedestrian Master Plan for the City of Weed," California Polytechnic State University, 2015–2016.
9. Charlie Coles, Master of City and Regional Planning, "Automated Vehicle Policy Development and Analysis," California Polytechnic State University, 2015–2016
10. Lance Knox, Master of City and Regional Planning, "Highway 227/Huasna Road Roundabout Feasibility Study," California Polytechnic State University, 2015
11. Sam Gross, Master of City and Regional Planning, "Measuring the Influence that Components Have on Pedestrian Route Choice in Activated Alleys," California Polytechnic State University, 2014–2015.
12. Marisa Lee, Master of City and Regional Planning, "Bicycle Tourism Plan for Economic Development: A Template for Rural Agricultural Towns and a Case Study for the City of Winters," California Polytechnic State University, 2014–2015
13. Nora Chin, Master of City and Regional Planning, "An Investigation of the Association between Freeway Traffic Levels and Freeway Patrol Service Assists," California Polytechnic State University, 2014
14. Joel Barnett, M.S., Civil and Environmental Engineering, "Predicting Traffic Volumes Near Two Way Stop Controlled Intersections," Portland State University, 2014
15. Pamela Johnson, M.S., Civil and Environmental Engineering, "Evaluating the Effectiveness of Bicycle Level of Service (BLOS)," Portland State University, 2014
16. Kirk Paulsen, M.S., Civil and Environmental Engineering, "Cycling Infrastructure Impacts on Intersection Queue Discharge Rates," Portland State University, 2013
17. Katherine Bell, M.S., Civil and Environmental Engineering, "Identification and Characterization of PM2.5 and VOC Hot Spots on an Urban Arterial Corridor Integrating Probe Vehicle, Traffic and Land Use Data," Portland State University, 2013
18. Chengxin Dai, M.S., Civil and Environmental Engineering, "Exploring Data Quality of Oregon Weigh-In-Motion Systems," Portland State University, 2013
19. David Petres, M.Sc., Civil Engineering, Delft University of Technology, "Actuated Signal Control and Green Waves," Portland State University, 2012
20. Max Coffman, Master of Urban and Regional Planning, "Transport Payment Integration in Portland, Oregon," Portland State University, 2007
21. Carolyn Bonner, Master of Urban and Regional Planning, "Public Transportation for Small Cities," Portland State University, 2004–2005

22. Matthew Lasky, Master of Urban and Regional Planning, "Bicycle Use on Transit," Portland State University, 2004–2005
23. Kate Lyman, Master of Urban and Regional Planning, "Travel Time Reliability in Regional Transportation Planning," Portland State University, 2006–2007
24. Robert Jones, M.S., Computer Science, "Content Aware Request Distribution for High Performance Web Service: A Performance Study," Portland State University, 2002
25. Brian Kearns, M.S., Computer Science, "A Performance Study of LAM and MPICH on an SMP Cluster," Portland State University, 2002
26. Bhaskar Bhatnagar, M.S., Mechanical Engineering, "Aerodynamic Design of Wind Tunnel Inlet for Testing Class 8 Trucks," Portland State University, 2003
27. John Hoffman, M.S., Computer Science, "PPerfGrid: A Grid Services-based Tool for the Exchange of Heterogeneous Parallel Performance Data," Portland State University, 2004
28. Rashawn Knapp, M.S., Computer Science, "Environment Aware Performance Analysis: Scope of Performance Analysis Tools for Cluster Computing and MPI Applications," Portland State University, 2006

Master's Student Research Advisor at PSU

1. Matthew Downey, M.S., Transportation, 2013–2015
2. Todd Borkowitz, Master of Urban and Regional Planning, 2013–2014
3. Tom Kristeleit, M.S. Transportation, Universität der Bundeswehr München, 2013–2014
4. Helene Siri, M.S., Transportation, L'ecole nationale des travaux publics d'Etat (ENTPE), France, 2009
5. Jerzy Wiczorek, M.S., Statistics, 2007–2009
6. Leah Tomlinson, M.S., Civil and Environmental Engineering, 2007–08
7. Priya Chavan, M.S., Computer Science, 2007–2009 (w/K. Tufte)
8. Enas Fayed, M.S., Civil and Environmental Engineering, 2007 (w/K. Tufte)
9. Matt Berkow, Master of Urban and Regional Planning, 2006–08
10. Oren Eshel, Master of Urban and Regional Planning, 2006–08
11. Maisha Mahmud, M.S., Civil and Environmental Engineering, 2006–08 (w/C. Monsere)
12. Jake Hofeld, M.S., Civil and Environmental Engineering, 2006–07 (w/C. Monsere)
13. Sandeep Puppala, M.S., Civil and Environmental Engineering, 2006 (w/C. Monsere)
14. Zachary Horowitz, M.S., Civil and Environmental Engineering, 2005–06
15. Suman Tasnim, M.S., Civil and Environmental Engineering, 2004–07 (w/C. Monsere)
16. Aaron Breakstone, Master of Urban and Regional Planning, 2004–06 (w/C. Monsere)
17. Peter Bosa, Master of Urban and Regional Planning, 2004–06 (w/C. Monsere)
18. Alex White, Master of Urban and Regional Planning, 2004–05
19. Sonoko Endo, Master of Urban and Regional Planning, 2004
20. Thareth Yin, M.S., Civil and Environmental Engineering, 2003–05 (w/C. Monsere)
21. Steve Hansen, Master of Urban and Regional Planning, 2003–05
22. Casey Nolan, Master of Urban and Regional Planning, 2003–05
23. Mike Rose, Master of Urban and Regional Planning, 2003–04
24. Nina Rufer, Master of Business Administration, 2003
25. Sachin Karmarkar, M.S., Civil and Environmental Engineering, 2002–03
26. Kerri Sullivan, Master of Urban and Regional Planning, 2002
27. Edward Anderson, M.S., Civil and Environmental Engineering, 2000–01

Undergraduate Students

Student Mentor

1. Danial Mahfoud, B. Architecture, "Transportation Center for Los Angeles Olympic Village," Design Competition Advisor, California Polytechnic State University, 2015

B.S. Honors Thesis Advisor

1. Edison Hopson-Fernandes, B.S. Civil Engineering, University of South Florida, 2020
2. Alexander Bigazzi, B.S., Civil Engineering, "Carbon Sponsoring: A New Idea in Personal Carbon Trading, Direct Carbon Offset Pledges for Travel," Portland State University, 2009

Research Experience for Undergraduates (REU) Advisor

1. Dan Johnson, B.S., Civil Engineering, Portland State University, 2003
2. Chris Pangilinan, B.S., Civil Engineering, Portland State University, 2002-04
3. Andrew Byrd, B.S., Computer Science, Portland State University, 2002-04
4. Neil Byrne, B.S., Civil Engineering, Portland State University, 2003-2004
5. Violet Gordon, B.S., Civil Engineering, Portland State University, 2003-04
6. Matthew Dorado, B.S., Civil Engineering, Portland State University, 2003-07
7. Jacob Baglien, B.S., Civil Engineering, Portland State University, 2003-05
8. Andy Delcambre, B.S., Computer Science, Portland State University, 2004-05
9. Andy Rodriguez, B.S., Computer Science, Portland State University, 2004-05
10. Abram VanElswyk, B.S., Civil Engineering, Portland State University, 2004-05
11. Erin Qureshi, B.S., Civil Engineering, Portland State University, 2004-05
12. Rodger Gutierrez, B.S., Civil Engineering, Portland State University, 2005
13. Spicer Matthews, B.S., Computer Science, Portland State University, 2004-06
14. Scott Pulice, B.S., Civil Engineering, Portland State University, 2005
15. Nick Carey, B.S., Civil Engineering, Portland State University, 2005-07
16. Jonathan Horowitz, B.S., Civil Engineering, Portland State University, 2005
17. Hiu Ng, B.S., Civil Engineering, Portland State University, 2005-06
18. James Rucker, B.S., Computer Science, Portland State University, 2004-07
19. Jessica Potter, B.S., Computer Science, Portland State University, 2004-07
20. Tim Welch, B.S., Computer Science, Portland State University, 2006
21. River Hwang, B.S., Civil Engineering, Portland State University, 2004-06
22. Andrew Coons, B.S., Computer Science, Portland State University, 2006
23. Max Stephens, B.S., Civil Engineering, Portland State University, 2006-07
24. John Chee, B.S., Computer Science, Portland State University, 2006-2007

Undergraduate Summer Internship Advisor at PSU

1. Nick Millar, Civil Engineering, Summer 2006 (w/C. Monsere)

EDUCATION

Courses Taught

University of South Florida

- TTE 4004 Transportation Engineering I (F2019, F2018)
CGN 6933 Sustainable Transportation (S2017 w/K. Williams, S2018, S2019 w/J. Jackman)
TTE 6651 Public Transportation (S2020)
TTE 6930 Graduate Transportation Seminar (S2017)
CGN 4933/6933 USF Netherlands: Sustainable Urban Mobility (SU2019, SU2020)

California Polytechnic State University San Luis Obispo

- CE 321 Fundamentals of Transportation Engineering (F2014, W2015, F2015)
CE 423 Intelligent Transportation Systems (S2015, S2016)
CE 424 Public Transportation (F2015)
CE 523 Transportation Systems Planning (W2015, W2016)
CE 527 Sustainable Mobility (S2015, S2016)

CE 528 Transportation Economics and Analysis (F2014)

Portland State University

CE 111 Introduction to Civil and Environmental Engineering (1x)

CE 351 Transportation Systems: Planning and Design (2x)

CE 4/510 Transportation Science & Politics (1x)

CE 414/514 Transportation Seminar (quarterly 2000–2009, 2012–2014)

CE 454 Urban Transportation Systems (4x)

CE 455/555 Intelligent Transportation Systems (10x)

CE 458/558 Public Transportation Systems (9x)

CE 459/559 Transportation Operations (9x)

CE 484 Engineering Project Management I (1x)

CE 494 Engineering Project Management II (1x)

CE 495/595 Study Abroad: Multimodal Transportation Engineering Applications and Innovations in the Netherlands (4x)

San José State University

CE 130 Engineering Economics (3x)

CE 222 Transportation Engineering Planning (2x)

CE 296A Public Transportation Systems (1x)

TPM 201 Introduction to Transportation Systems (Course Development)

Curriculum Development

1. Developed New Transportation Engineering I Online Solved Example Problem Library (currently 65 problems), University of South Florida.
2. Developing Refreshed CE 321 Fundamentals of Transportation Engineering, with K. Mastako and A. Pande, 2015–2016
3. Developed Cal Poly Sustainable Transportation Lab and Transportation Engineering Student Project Area (TESPA) at Cal Poly San Luis Obispo.
4. Developed Intelligent Transportation Systems Laboratory at Portland State University in partnership with Federal Highway Administration, Oregon Department of Transportation (ODOT), City of Portland and TriMet. Provides real-time closed-circuit television (CCTV) feeds from more than 100 freeway cameras and serves as data archive as part of the Portland region's ITS Architecture.
5. Graduate Certificate in Transportation, Portland State University, 2004
6. Dual Transportation Master's Degree Program in Urban and Regional Planning and Civil and Environmental Engineering, Portland State University

Continuing Education

1. Integrating Bicycle & Pedestrian Topics into University Transportation Curriculum, PSU/OTREC Initiative for Bicycle and Pedestrian Innovation (IBPI), July 24–26, 2013.
2. Transportation Education: Partnerships for Leading and Learning, conference co-sponsored with NIATT, June 2009
3. Building Future Transportation Leadership: Success Factors from Portland, January 2008
4. Organized short courses in Roundabout Analysis & Design, Geometric Design: Contemporary Considerations of Traditional Elements, Traffic Signal Design, Urban Traffic Solutions, Light Rail Transit Facility Design, Light Rail Transit Systems Design Basics, Contracting and Constructability
5. Taught short course in Fundamentals of Traffic Engineering (Capacity Analysis and Freeway Operations)

6. Review of Civil Engineering (Transportation) for Professional Engineering Exam and Fundamentals of Engineering (FE) Exam

SERVICE

University Level

University of South Florida

Search Committee Chair, Patel College of Global Sustainability Assistant Professor Position, 2017–2018
Search Committee Member, Urban and Regional Planning Assistant Professor Position, 2018–2019
Commencement Marshall, 2017–Present
Presidential Investiture Marshall, 2019

California Polytechnic State University San Luis Obispo

Periodic Review Team Member, Global Waste Research Institute (GWRI), 2015
Center for Teaching, Learning and Technology (CTLT), Flipping Your Classroom Workshop, 2015
Mustang Way Welcome Team, Freshman Move-In Volunteer, Fall 2015
Center for Teaching, Learning and Technology (CTLT) New Faculty Orientation, 2014
Center for Teaching, Learning and Technology (CTLT) End of Quarter Workshops, 2014–2016
Academic Coach, First Year Success Program (FSP), Mustang Success Center, 2015
Anti-Harassment, Discrimination and Retaliation Training, 2015

Portland State University

Faculty Senate, 2013–2014; 2004–2007
University Honors Committee, 2013–2014
University Budget Committee, 2004–2007
NSF CAREER Proposal Faculty Workshops, 2009 & 2013
Reviewer, Research Stimulus Proposals, 2013
Faculty Search Committee Chair, Green Transportation Energy/Infrastructure Position, 2008–2009
Traffic Appeals Board, 2008–2009
Sustainability Academic Advisory Committee, 2007–2009
Custodial Services Proposal Review Committee, 2007
Task Force on Research and Sponsored Projects Infrastructure, 2006
Search Committee Member, Vice President of Finance and Administration, 2004–2005
Faculty Development Committee, 2002–2004; 2009
Search Committee Member, Assistant Director of Transportation and Parking, 2002
Streetcar Safety Advisory Committee, Portland State University, 2001
Great Cities Universities Coalition, Transportation Initiative, Portland State University Team Leader
Economic Development Task Force, 2006
Spring Commencement Marshall, 2000–2009
Umbrella Tours, 2002–2008

College Level

University of South Florida

Dean's Leadership Council, 2016–present
College of Engineering Advisory Board presentations, 2016–present

California Polytechnic State University San Luis Obispo

New Engineering Projects Building Steering Committee, 2015–2016
Study Abroad Coordination Group, 2014–2016

Portland State University

Promotion and Tenure Advisory Committee, 2013–2014
Strategic Planning Committee, 2007
Computing Committee and Task Force, 2001–2003
New Engineering Laboratory Building Planning and Design Committee, 2001–2005
Student Scholarship and Awards Committee, 2000–2003
Staff Awards Committee, 2000–2003
Tau Beta Pi, Advisor, 2004–2009; 2012–2014

Department Level

University of South Florida

Chair, Transportation Area Committee, 2017–Present
Tenure and Promotion Committee, 2018–Present
Transportation Engineering Career Guidance Officer, 2019–Present
Member, Transportation Area Committee, 2016–2017
Member, Transportation Post-Doctoral Faculty Search Committee, 2016
Faculty Mentor and Co-Advisor, USF Institute of Transportation Engineers (ITE) Student Chapter, 2016–present
Faculty Advisor, Chi Epsilon Civil Engineering Honor Society, 2018–present
PE Review Sessions, Transportation Breadth and Depth, ASCE Student Chapter, 2017–present
State University System of Florida, Institute for Academic Leadership, Department Chairs Workshop, Howey-in-the-Hills, FL, 2019

California Polytechnic State University San Luis Obispo

Member of Cal Poly Transportation Group, 2014–2016
Cal Poly SLO Institute of Transportation Engineers (ITE) Student Chapter

- Faculty Advisor, Fall 2014
- Co-Faculty Advisor, Winter 2015–2016
- Faculty supporter, participation in meetings and events
- Speaker, Industry Panelist and PSA Judge for Student Leadership Summit, 2015
- Advisor for data collection fund project, 2015 and 2017

Cal Poly SLO Chi Epsilon Honor Society Chapter, Co-Faculty Advisor, 2015–2016
Member of CEENVE International Exchange Program Committee, 2015–2016
Member of CEENVE Student Fee Initiative (SFI) Committee, 2014–2016
Member of CEENVE Graduate Studies Committee, 2014–2016
Member of CEENVE Laboratory Committee, Fall 2014
American Society of Civil Engineers (ASCE) Student Chapter, Resume Reviewer, Fall 2015
Participation in Fall Commencement, 2014
Participation in Spring Commencement, 2015, 2016
Name Reader, Departmental Commencement, 2015–2016

Portland State University

Transportation Engineering Graduate Program Coordinator, 2002–2006
Master of Urban and Regional Planning Admissions Committee, 2005–2006
Faculty Search Committee Chair, Transportation Engineering position, 2006 and 2009
Search Committee Chair, Fiscal Operations Coordinator, OTREC, 2007
Search Committee, Office Assistant, OTREC, 2008
Search Committee, Education and Technology Transfer Program Manager, OTREC, 2008

Faculty Search Committee, Structural Engineering and Seismic Testing position, 2004
Faculty Search Committee, Urban Studies and Planning Transportation Modeling position, 2006
Student Scholarship and Awards Committee, 2000–2003
ASCE Student Chapter Advisor, 2000–2004 (National Steel Bridge competitions 2002, 2005)
Engineers Without Borders Student Chapter, Founding Faculty Advisor, 2004–2009
FE and PE Review Sessions, 2014

Professional Service

Refereed Journal Editorships

Editor-in-Chief, Journal of Public Transportation, 2017–Present.
Editorial Board, Transportation Research Record, 2019–present
Editorial Board, Journal of Intelligent Transportation Systems, 2005–present
Editor, Transportation Research Record: Journal of the Transportation Research Board, Traffic Flow Theory, 2009–2015
Editorial Board, Journal of Transportation Systems Engineering and Information Technology, 2007–present
Editorial Board, Internet Journal of Cooperative Transportation Dynamics, 2001–present
Guest Editor, Transportmetrica B, Special Issue on Traffic Flow Theory, 2014
Guest Editor, Journal of Intelligent Transportation Systems, Special Issue on Traffic Flow Theory, 2014

Reviewer for Refereed Journals

ASCE Journal of Transportation Engineering
ASCE Journal of Urban Planning and Management
ASCE Journal of Computer Aided Civil and Infrastructure Engineering
IEEE Transactions on Intelligent Transportation Systems
Transportmetrica B
Transportation Research Record: Journal of the Transportation Research Board
Transportation Research Part A
Transportation Research Part B
Transportation Research Part C
Transportation Science
Journal of Public Transportation
Journal of Intelligent Transportation Systems
Journal of Planning Education and Research

Conference Leadership

"Future of Transportation Research," Session Moderator with Larry Burns, Francesc Robuste, Michael Zhang and Samer Madanat, Special Symposium Honoring Prof. Carlos Daganzo's 70th Birthday, UC Berkeley, June 21, 2018
Leadership Committee Member, Florida Automated Vehicles Summit, 2017–Present
International Committee Member, International Symposium of Transportation Simulation (ISTS), 2015–Present
Steering Committee Member, 9th University Transportation Center Spotlight Conference on Connected and Automated Vehicles, Transportation Research Board, Washington, D.C., November 4–5, 2015.
Automated Vehicle Symposium, Breakout Session Organizer: Roadway Management and Operations with Automated Vehicles 2014, Integrated Traffic Flow Models and Analysis for Automated Vehicles 2015

Symposium Chair, Transportation Research Board Symposium Celebrating 50 Years of Traffic Flow Theory, Committee on Traffic Flow Theory and Characteristics (AHB45) Summer Meeting, August 11–13, 2014, Portland, Oregon, USA

IEEE ITS Society, International Conference on Intelligent Transportation Systems, Associate Editor/International Program Committees: 2001 Oakland, California; 2003 Shanghai, China; 2005 Vienna Austria; 2006 Toronto, Canada; 2007 Seattle, Washington

IEEE ITS 10th International Conference on Application of Advanced Technologies in Transportation, Reviewer, Athens, Greece, 2003

IEEE 62nd Semiannual Vehicular Technology Conference, Reviewer, 2005

International Symposium on Transportation and Traffic Theory (ISTTT), Reviewer, 1999–present; Local Organizing Committee: 2013 ISTTT 20 Noordwijk, 2017 ISTTT 22 Chicago

ITS America/World Congress on Intelligent Transportation Systems: Reviewer, 2002–present; International Program Committee Americas, 2009–Present; Special Interest Session, 2013; Americas Rapporteur on Sustainable, Clean and Energy Efficient Mobility, 2013.

Institute for Pure and Applied Mathematics (IPAM), University of California at Los Angeles, New Directions in Mathematical Approaches for Traffic Flow Management, Workshop IV: Decision Support for Traffic, Organizing Committee, November 16–20, 2015.

ITS Oregon, Planning Committee for ITS Workshop 2003, 2005

International Symposium on Highway Capacity, Reviewer, 1999

Sixth International Conference on Traffic & Transportation Studies (ICTTS), China, International Scientific Committee, 2008

mobil.TUM Scientific Conference on Mobility and Transport, International Scientific Committee, Munich Germany, 2009, 2013, 2015

mobil.TUM, Moderator of Panel Discussion on ITS and the Internet of Things, Munich, Germany, 2015

National Conference on Digital Government Research, dg.o 2004, Program Committee, Seattle, Washington, May 24–26, 2004.

Traffic and Transport 2030, International Congress & Workshop, Technical University of Darmstadt, Germany, February 27–29, 2008, Invited participant and discussant

Twelfth World Conference on Transportation Research (WCTR), Instituto Superior Tecnico, Lisbon, Portugal, 2010, Session Track Co-Organizer for Track C1: Traffic Theory and Measurement

The Transportation Enterprise: Challenges of the 21st Century, Institute of Transportation Studies 50th Anniversary Symposium, Berkeley, California, 1998

Review Panels for External Funding Agencies

Midterm Review Board Member, Future Urban Mobility (FM) Interdisciplinary Research Group (IRG), Singapore MIT Alliance for Research and Technology (SMART), Singaporean National Research Foundation (NRF), 2019

Strategic Highway Research Program 2 (SHRP2)

Transit Cooperative Research Program (TCRP)

National Cooperative Highway Research Program (NCHRP)

University of California, Berkeley and California Department of Transportation, PATH Program

University of Minnesota Center for Transportation Studies

National Science Foundation

European Research Council

Transportation Northwest (TransNow) Region X University Transportation Center

Center for Integrated Transportation Systems Management (CITSM), University of Maryland

University of California Transportation Center (UCTC)

University of California Center on Economic Competitiveness in Transportation (UCConnect)

Safety and Operations of Large-Area Rural/Urban Intermodal Systems (SOLARIS) University
Transportation Center, University of Nevada, Reno, 2015
National Sciences and Engineering Research Council of Canada (NSERC), Reviewer, 2005

National Academies of Science, Engineering and Medicine, Transportation Research Board (TRB) Service Roles

Operations Section (AHB00/ACP00), Chair, 2014–2022; Member, 2009–2014
Safety and Operations Group (AC000), Member 2020–2022
Operations and Preservation Group (AH000), Member 2014–2020
Committee on Traffic Flow Theory and Characteristics (AHB45/ACP50): Chair, 2009–2015; Secretary,
2004–2009; Member, 2002–2009, 2019–present; Paper Review Subcommittee, 2001–present; Awards
Subcommittee, 2015–present, Webmaster, 2002–present
Transportation Research Record (TRR) Review Advisory Board, 2015–2019
Committee on The Role of Automated and Connected Vehicles: The 9th University Transportation
Center Spotlight Conference (AHB99A), 2015–2016
Task Force on Data for Decisions and Performance Measures (A0030T), 2010–2013
Task Force on Transportation System Simulation (AHB80T), co-led development and successful proposal to
establish, 2014–2015
Joint Subcommittee on Traffic Simulation (SimSub) (AHB45(1)), Member, 2006–present
Committee on Transportation Planning for Small and Medium-Sized Communities (ADA30), Friend 2014–
present
Committee on Intelligent Transportation Systems (AHB15), Reviewer and Friend, 2009–present
Committee on Freeway Operations (AHB20), Reviewer, 2000–present
Committee on Highway Capacity and Quality of Service (AHB40), Reviewer, 1997–present
Committee on Traffic Signal Systems (AHB25), Reviewer, 2005–present
Committee on Urban Transportation Data and Information Systems (ABJ30), Reviewer, 2000–present
Committee on Traveler Behavior and Values (ADB10), Reviewer 2000–present
Joint Subcommittee on Archived Data User Service (ABJ35(1)), Member, 2007–present
Subcommittee on Training, Education, and Technology Transfer, Committee on Critical Transportation
Infrastructure (ABE40(5)), Reviewer, 2003–2009
National Academies' Panel for Government Accountability Office (GAO) Department of Transportation
Organizational Structure Review, Washington, D.C., September 13–14, 2016.
National Cooperative Highway Research Program (NCHRP), Panelist for NCHRP 20-102(12) Business
Models to Facilitate Deployment of CV Infrastructure to Support AV Operations
Invited Participant, 6th United States – European Union Symposium entitled, "Socioeconomic Impacts of
Connected and Automated Vehicles" Brussels, Belgium, June 26–27, 2018,

U.S. Department of Transportation Leadership Roles

Senior Sustainability Officer, Research and Innovative Technology Administration, 2011
White House Task Force on Skills for America's Future, 2010–2011
U.S. Department of Transportation, Performance Management Council, member, 2009–2011
U.S. Department of Transportation, Innovation Council, Chair, 2010–2011
U.S. Department of Transportation, Deputy Administrator Working Group (DAWGs), 2009–2011
National Science and Technology Council: Committee on Homeland and National Security, DOT
Designated Senior Official; Committee on Science, DOT Alternate Designated Senior Official, 2009–
2011
Committee on Technology, DOT Alternate Designated Senior Official and member of Deputies' Council,
2009–2011

Emerging Technologies Interagency Policy Coordination Committee (OSTP/OMB/USTR), DOT
Designated Senior Official, 2009–2011
Security Clearance: U.S. DOT Top Secret, 2009–2011

Other Organizational and Community Service

City of Tampa, Chair, Mayor Jane Castor's Transportation Transition Advisory Team, 2019
Operations Discipline Working Group (DWG), Southeast Transportation Workforce Center (SETWC),
National Transportation Career Pathways Initiative, Federal Highway Administration, 2017–Present
IEEE Intelligent Transportation Systems Society, Board of Governors, 2016–2018
Institute of Transportation Engineers/ITS America/AASHTO Cooperative Automated Transportation
(CAT) Coalition, 2018–Present
Institute of Transportation Engineers/ITS America/AASHTO Vehicle to Infrastructure (V2I) Deployment
Coalition Technical Working Group 2 Co-Chair: Deployment Research, 2015–2016
Peer Review Steering Committee, Santa Clara Valley Transportation Authority (VTA), El Camino Real
(ECR) Bus Rapid Transit (BRT) Corridor Draft Environmental Impact Report/Environmental
Assessment (DEIR/EA), 2016.
SOLARIS (Safety and Operations of Large-Area Rural/Urban Intermodal Systems) University
Transportation Center, University of Nevada, Reno, Advisory Board, 2014–present
Transportation Northwest Region X University Transportation Center Advisory Board, 2007–2009
University of California, Berkeley Institute of Transportation Studies Advisory Council, 2010–present
TransPort ITS Advisory Committee, 2000–2009, 2012–2014
Oregon Department of Transportation, Research Advisory Committee, ex officio Member, 2007–2009
Co-chair, Oregon Governor's ITS for Energy Conservation Task Force, 2011–2012
Columbia River Crossing Cost Benefit Analysis of Investment Alternatives Task Force, 2008
City of Portland, Office of Transportation, Portland Operations Steering Team, 2007–2009
City of Portland, Office of Transportation, Budget Task Force, 2005–2006
City of Portland, Mayor's Transportation Cabinet, 2009
Oregon Department of Transportation, Director Search, External Stakeholders Interviews, 2005
Fanfare Concert Winds, Tampa, Florida, 2017–Present
Atascadero Community Band, Atascadero, California, 2015–2016
Peninsula Symphony Orchestra Board of Directors, San Mateo, California, 1989–1995
City of Mountain View Environmental Planning Commission, Member, 1994–1995