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Academic Background

Ph.D.	Massachusetts Institute of Technology	1983
M.S.C.E.	Purdue University	1979
B.S.C.E. (with Distinction)	University of Saskatchewan	1976

Professional History

Associate Dean for Research, College of Engineering, University of South Florida, Tampa, 2016-present.

Professor, Department of Civil and Environmental Engineering, University of South Florida, Tampa, 2015-present.

Charles Pankow Professor of Civil Engineering, School of Civil Engineering, Purdue University, West Lafayette, 2009-2015.

Professor, School of Civil Engineering, Purdue University, West Lafayette, 2005-2009.

Professor and Head, School of Civil Engineering, Purdue University, West Lafayette, 2001-2005.

Professor and Chair, Department of Civil and Environmental Engineering, University of Washington, Seattle, 1997-2001.

Professor, Department of Civil Engineering, University of Washington, Seattle, 1992-1997.

Associate Professor, Department of Civil Engineering, University of Washington, Seattle, 1989-1992.

Assistant Professor, Department of Civil Engineering, University of Washington, Seattle, 1987-1989.

Assistant Professor, Department of Civil Engineering, Pennsylvania State University, University Park, 1983-1986.

Associate Director, TOMNET University Transportation Center, University of South Florida (Arizona State University - lead institution), 2016-present.

Adjunct Professor, School of Civil Engineering, Purdue University, West Lafayette, 2015-present.

Courtesy Appointment, Department of Economics, University of South Florida, Tampa, 2015-present.

Courtesy Appointment, Department of Economics, Purdue University, West Lafayette, 2005-2015.

Visiting Professor, Department of Civil and Environmental Engineering, University of California – Davis, 1992-1993 (sabbatical leave).

Refereed Journal Publications († indicates publications with over 50 and †† indicates publications with over 100 citations in the Web of Science Core Collection; * indicates current Web of Science Essential Science Indicators (ESI) Highly Cited Papers (papers published in the last 10 years, with citations that place them in the top 1% of all papers in their field))

1. Mannering, F., Sinha, K. C., 1979. Forecasting automobile fleet fuel efficiency. *Traffic Quarterly* 33(4), 637-648.
2. Mannering, F., Sinha, K. C., 1980. Methodology for evaluating the impacts of energy, national economy, and public policies on highway financing and system performance. *Transportation Research Record* 742, 20-27.
3. Mannering, F., Harrington, I., 1981. Use of density function and Monte Carlo simulation techniques in the evaluation of policy impacts on travel demand. *Transportation Research Record* 801, 8-15.
4. Mannering, F., Sinha, K. C., 1982. Simulation approach to assess highway performance. *Journal of Transportation Engineering* 108(1), 71-86.
5. Mannering, F., 1983. An econometric analysis of vehicle use in multivehicle households. *Transportation Research Part A* 17(3), 183-189.
6. Winston, C., Mannering, F., 1984. Consumer demand for automobile safety. *American Economic Review* 74(2), 316-319.
7. ††Mannering, F., Winston, C., 1985. A dynamic empirical analysis of household vehicle ownership and utilization. *Rand Journal of Economics* 16(2), 215-236.
8. Mannering, F., Train, K., 1985. Recent directions in automobile demand modeling, *Transportation Research Part B*, 19(4), 265-274.
9. Mannering, F., Mahmassani, H., 1985. Consumer valuation of foreign and domestic vehicle attributes: Econometric analysis and implications for auto demand. *Transportation Research Part A* 19(3), 243-252.
10. Mannering, F., 1986. A note on endogenous variables in household vehicle utilization equations. *Transportation Research Part B* 20(1), 1-6.
11. Kilareski, W., Mannering, F., Luhr, D., Kutz, S., 1986. Transportation facilities information system for pavement management. *Transportation Research Record* 1048, 29-37.

12. Mannering, F., Kilareski W., 1986. Common structure of data for roadway information systems. *ITE Journal* 56(7), 43-49.
13. Abu-Eisheh, S., Mannering, F., 1986. Traffic forecasting for small to medium-sized urban areas. *ITE Journal* 56(10), 37-42.
14. Mannering, F., 1986. Selectivity bias in models of discrete/continuous choice: An empirical analysis. *Transportation Research Record* 1085, 58-62.
15. Mannering, F., Chu Te, G., 1986. Evidence on the impacts of manufacturer sourcing on vehicle demand. *Transportation Research Record* 1085, 1-7.
16. Mannering, F., Hensher, D., 1987. Discrete/continuous econometric models and their application to transport analysis. *Transport Reviews* 7(3), 227-244.
17. Mannering, F., Bottiger, W., Black, K., 1987. Decisions relating to alcohol-impaired driving: An exploratory analysis. *Accident Analysis and Prevention* 19(6), 487-495.
18. Mannering, F., 1988. Analysis of the impact of interest rates on automobile demand. *Transportation Research Record* 1116, 10-14.
19. Abu-Eisheh, S., Mannering, F., 1988. A discrete/continuous analysis of commuters' route and departure time choice. *Transportation Research Record* 1138, 27-34.
20. Mannering, F., 1989. Poisson analysis of commuter flexibility in changing route and departure times. *Transportation Research Part B* 23(1), 53-60.
21. Kirkemo, G., Nihan, N., Mannering, F., 1989. The feasibility of using local access cable TV as a driver information tool. *ITE Journal* 59(3), 40-46.
22. Mannering, F., Abu-Eisheh, S., Arnadottir, A., 1990. Dynamic traffic equilibrium with discrete/continuous econometric models. *Transportation Science* 24(2), 105-116.
23. Mannering, F., Hamed, M., 1990. Occurrence, frequency and duration of commuters' work-to-home departure delay. *Transportation Research Part B* 24(2), 99-109.
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25. Garrison, D., Mannering, F., 1990. Assessing the traffic impacts of freeway incidents and driver information. *ITE Journal* 60(8), 19-23.
26. ††Jones, B., Janssen, L., Mannering, F., 1991. Analysis of the frequency and duration of freeway accidents in Seattle. *Accident Analysis and Prevention* 23(2), 239-255.
27. Mannering, F., Winston, C., 1991. Brand loyalty and the decline of American automobile firms. *Brookings Papers on Economic Activity: Microeconomics* 1991, 67-114.
28. †Mannering, F., 1993. Male/female driver characteristics and accident risk: Some new evidence. *Accident Analysis and Prevention* 25(1), 77-84.
29. Balogh, M., Larson, T., Mannering, F., 1993. Analysis of fine particulate matter near urban roadways, *Transportation Research Record* 1416, 25-32.

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31. ††Hensher, D. A., Mannering, F., 1994. Hazard-based duration models and their application to transport analysis. *Transport Reviews* 14(1), 63-82.
32. Mannering, F., 1994. Assessing the impacts of audio home-copying restrictions. *Quarterly Journal of Business and Economics* 33(1), 30-46.
33. Mannering, F., Kim, S.-G., Barfield, W., Ng, L., 1994. Statistical analysis of commuters' route, mode, and departure flexibility and the influence of traffic information. *Transportation Research Part C* 2(1), 35-47.
34. Paselk, T., Mannering F., 1994. Use of duration models for predicting vehicular delay at U.S./Canadian border crossings. *Transportation* 21(3), 249-270.
35. Mannering, F., Murakami, E., Kim, S.-G., 1994. Temporal stability of travelers' activity choice and home-stay duration: Some empirical evidence. *Transportation* 21(4), 371-392.
36. Abdel-Aty, M., Vaughn, K., Kitamura, R., Jovanis, P., Mannering, F., 1994. Models of commuters' information use and route choice: Initial results based on a southern California commuter route choice survey. *Transportation Research Record* 1453, 46-55.
37. †Mannering, F., Grodsky, L., 1995. Statistical analysis of motorcyclists' self-assessed risk. *Accident Analysis and Prevention* 27(1), 21-31.
38. Ng, L., Barfield, W., Mannering, F., 1995. A survey-based methodology to determine information requirements for advanced traveler information systems. *Transportation Research Part C* 3(2), 113-127.
39. ††Shankar, V., Mannering, F., Barfield, W., 1995. Effect of roadway geometrics and environmental factors on rural accident frequencies. *Accident Analysis and Prevention* 27(3), 371-389.
40. Mannering, F., Winston C., 1995. Automobile air bags in the 1990's: Market failure or market efficiency? *Journal of Law and Economics* 38(2), 265-279.
41. Mannering, F., Koehne, J., Kim, S.-G., 1995. Statistical assessment of public opinions toward conversion of general-purpose lanes to high-occupancy vehicle lanes. *Transportation Research Record* 1485, 168-176.
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43. Ng, L., Wessels, R., Do, D., Mannering, F., Barfield W., 1995. Statistical analysis of commercial driver and dispatcher requirements for advanced traveler information systems. *Transportation Research Part C* 3(6), 353-369.
44. ††Poch, M., Mannering, F., 1996. Negative binomial analysis of intersection-accident frequencies. *Journal of Transportation Engineering* 122(2), 105-113.
45. ††Shankar, V., Mannering, F., Barfield, W., 1996. Statistical analysis of accident severity on rural freeways. *Accident Analysis and Prevention* 28(3), 391-401.

46. Koehne, J., Mannering, F., Hallenbeck, M., 1996. Analysis of trucker and motorist opinions toward truck-lane restrictions. *Transportation Research Record 1560*, 73-82.
47. ††Shankar, V., Mannering, F., 1996. An exploratory multinomial logit analysis of single-vehicle motorcycle accident severity. *Journal of Safety Research 27*(3), 183-194.
48. ††Shankar, V., Milton, J., Mannering, F., 1997. Modeling accident frequencies as zero-altered probability processes: An empirical inquiry. *Accident Analysis and Prevention 29*(6), 829-837.
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61. ††Carson, J., Mannering, F., 2001. The effect of ice warning signs on accident frequencies and severities. *Accident Analysis and Prevention* 33(1), 99-109.
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63. Mannering, F., Winston, C., Starkey, W., 2002. An exploratory analysis of automobile leasing by US households, *Journal of Urban Economics* 52(1), 154-176.
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65. Wang, Y., Hitoshi, I., Mannering, F., 2003. Estimating rear-end accident probabilities at signalized intersections: An occurrence-mechanism approach. *Journal of Transportation Engineering* 129(4), 377-384.
66. Shafizadeh, K., Mannering, F., 2003. Acceptability of pavement roughness on urban highways by driving public. *Transportation Research Record* 1860, 187-193.
67. ††Ulfarsson, G., Mannering, F., 2004. Differences in male and female injury severities in sport-utility vehicle, minivan, pickup and passenger car accidents. *Accident Analysis and Prevention* 36(2), 135-147.
68. Boyle, L., Mannering, F., 2004. Impact of traveler advisory systems on driving speed: Some new evidence. *Transportation Research Part C* 12(1), 57-72.
69. Choocharukul, K., Sinha, K. C., Mannering, F., 2004. User perceptions and engineering definitions of highway level of service: An exploratory statistical comparison. *Transportation Research Part A* 38(9-10), 677-689.
70. ††Khorashadi, A., Niemeier, D., Shankar, V., Mannering, F., 2005. Differences in rural and urban driver-injury severities in accidents involving large trucks: An exploratory analysis. *Accident Analysis and Prevention* 37(5), 910-921.
71. Shafizadeh, K., Mannering, F., 2006. Statistical modeling of user perceptions of infrastructure condition: An application to the case of highway roughness. *Journal of Transportation Engineering* 132(2), 133-140.
72. †Winston, C., Maheshri, V., Mannering, F., 2006. An exploration of the offset hypothesis using disaggregate data: The case of airbags and antilock brakes. *Journal of Risk and Uncertainty* 32(2), 83-99.
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76. Savolainen, P., Mannering F., 2007. Additional evidence on the effectiveness of motorcycle training and motorcyclists' risk-taking behavior. *Transportation Research Record* 2031, 52-58.
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79. ††Anastasopoulos, P., Tarko, A., Mannering, F., 2008. Tobit analysis of vehicle accident rates on interstate highways. *Accident Analysis and Prevention* 40(2), 768-775.
80. Gkritza, K., Sinha, K. C., Labi, S., Mannering, F., 2008. Influence of highway capacity-expansion projects on economic development: An empirical assessment. *Annals of Regional Science* 42(3), 545-563.
81. Nakano, V., Abraham, D., Croisant, W., Mannering, F., 2008. Assessment of emergency room designs for protection against an internal chemical threat. *Journal of Performance of Constructed Facilities* 22(5), 323-332.
82. Sharvelle, S., Arabi, M., Banks, M. K., Mannering, F., 2008. Model sensitivity for biotrickling filter treatment of graywater simulant and waste gas, Part II. *Journal of Environmental Engineering* 134(10), 826-834.
83. Hamideh, A., Oh, J., Labi, S., Mannering, F., 2008. Public acceptance of local government transportation sales taxes: A statistical assessment. *State and Local Government Review* 40(3), 150-159.
84. Malyshkina, N., Mannering, F., 2008. Effect of increases in speed limit on severities of injuries in accidents. *Transportation Research Record* 2083, 122-127.
85. *††Anastasopoulos, P., Mannering, F., 2009. A note on modeling vehicle-accident frequencies with random-parameters count models. *Accident Analysis and Prevention* 41(1), 153-159.
86. Mannering, F., 2009. An empirical analysis of driver perceptions of the relationship between speed limits and safety. *Transportation Research Part F* 12(2), 99-106.
87. †Malyshkina, N., Mannering, F., Tarko, A., 2009. Markov switching negative binomial models: An application to vehicle accident frequencies. *Accident Analysis and Prevention* 41(2), 217-226.
88. Hubbard, S., Bullock, D., Mannering F., 2009. Right turns on green and pedestrian level of service: A statistical assessment. *Journal of Transportation Engineering* 135(4), 153-159.
89. †Malyshkina, N., Mannering, F., 2009. Markov switching multinomial logit model: An application to accident-injury severities. *Accident Analysis and Prevention* 41(4), 829-838.

90. Miller, L., Mannering, F., Abraham, D., 2009. Effectiveness of speed control measures on nighttime construction and maintenance projects. *Journal of Construction Engineering and Management* 135(7), 614-619.
91. Washington, S., Congdon, P., Karlaftis, M., Mannering F., 2009. Bayesian multinomial logit: Theory and route choice example. *Transportation Research Record* 2136, 28-36.
92. †Malyshkina, N., Mannering, F., 2010. Zero-state Markov switching count-data models: An empirical assessment. *Accident Analysis and Prevention* 42(1), 122-130.
93. †Malyshkina, N., Mannering, F., 2010. Empirical assessment of the impact of highway design exceptions on the frequency and severity of vehicle accidents. *Accident Analysis and Prevention* 42(1), 131-139.
94. *††Lord, D., Mannering, F., 2010. The statistical analysis of crash-frequency data: A review and assessment of methodological alternatives. *Transportation Research Part A* 44(5), 291-305.
95. Valentin, V., Mannering, F., Abraham, D., Dunston, P., 2010. Evaluation of the visibility of workers' safety garments during nighttime highway-maintenance operations. *Journal of Transportation Engineering* 136(6), 584-591.
96. Anastasopoulos, P., Labi, S., Bhargava, A., Bordat, C., Mannering, F., 2010. Frequency of change orders in highway construction using alternate count-data modeling methods. *Journal of Construction Engineering and Management* 136(8), 886-893.
97. ††Kim, J.-K., Ulfarsson, G., Shankar, V., Mannering F., 2010. A note on modeling pedestrian injury severity in motor vehicle crashes with the mixed logit model. *Accident Analysis and Prevention* 42(6), 1751-1758.
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102. *††Savolainen, P., Mannering, F., Lord, D., Quddus, M., 2011. The statistical analysis of crash-injury severities: A review and assessment of methodological alternatives. *Accident Analysis and Prevention* 43(5), 1666-1676.
103. †Morgan, A., Mannering, F., 2011. The effects of road-surface conditions, age, and gender on driver-injury severities. *Accident Analysis and Prevention* 43(5), 1852-1863.

104. Martchouk, M., Mannering, F., Bullock, D., 2011. Analysis of freeway travel time variability using Bluetooth detection. *Journal of Transportation Engineering* 137(10), 697-704.
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107. *††Anastasopoulos, P., Mannering, F., Shankar, V., Haddock, J., 2012. A study of factors affecting highway accident rates using the random-parameters tobit model. *Accident Analysis and Prevention* 45(1), 628-633.
108. Anastasopoulos, P., Labi, S., Bhargava, A., Mannering, F., 2012. Empirical assessment of the likelihood and duration of highway project time delays. *Journal of Construction Engineering and Management* 138(3), 390-398.
109. Anastasopoulos, P., Mannering, F., Haddock, J., 2012. A random parameters seemingly unrelated equations approach to the post-rehabilitation performance of pavements. *Journal of Infrastructure Systems* 18(3), 176-182.
110. Anastasopoulos, P., Karlaftis, M., Haddock, J., Mannering, F., 2012. Household automobile and motorcycle ownership analyzed with random parameters bivariate ordered probit model. *Transportation Research Record* 2279, 12-20.
111. Anastasopoulos, P., Haddock, J., Karlaftis, M., Mannering, F., 2012. Analysis of urban travel times: Hazard-based approach to random parameters. *Transportation Research Record* 2302, 121-129.
112. †Xiong, Y., Mannering, F., 2013. The heterogeneous effects of guardian supervision on adolescent driver-injury severities: A finite-mixture random-parameters approach. *Transportation Research Part B* 49, 39-54.
113. Wu, Z., Sharma, A., Mannering, F., Wang, S., 2013. Safety impacts of signal-warning flashers and speed control at high-speed signalized intersections. *Accident Analysis and Prevention* 54, 90-98.
114. Kang, L., Xiong, Y., Mannering, F., 2013. Statistical analysis of pedestrian perceptions of sidewalk level of service in the presence of bicycles. *Transportation Research Part A* 53, 10-21.
115. Hainen, A., Remias, S., Bullock, D., Mannering, F., 2013. A hazard-based analysis of airport security transit times. *Journal of Air Transport Management* 32, 32-38.
116. ††Mannering, F., Bhat, C., 2014. Analytic methods in accident research: Methodological frontier and future directions. *Analytic Methods in Accident Research* 1, 1-22.
117. Xiong, Y., Tobias, J. Mannering, F., 2014. The analysis of vehicle crash injury-severity data: A Markov switching approach with road-segment heterogeneity. *Transportation Research Part B* 67, 109-128.

118. Winston, C., Mannering, F., 2014. Implementing technology to improve public highway performance: A leapfrog technology from the private sector is going to be necessary. *Economics of Transportation* 3, 158-165.
119. †Behnood, A., Roshandeh, A., Mannering, F., 2014. Latent class analysis of the effects of age, gender and alcohol consumption on driver-injury severities. *Analytic Methods in Accident Research* 3-4, 56-91.
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123. Guo, Y., Peeta, S., Mannering, F., 2016. Rail-truck multimodal freight collaboration: A statistical analysis freight-shipper perspectives. *Transportation Planning and Technology* 39(5), 484-506.
124. *††Mannering, F., Shankar, V., Bhat, C., 2016. Unobserved heterogeneity and the statistical analysis of highway accident data. *Analytic Methods in Accident Research* 11, 1-16.
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139. Barbour, N., Zhang, Y., Mannering, F., 2019. A statistical analysis of bikesharing use and its potential as an auto-trip substitute. *Journal of Transport and Health* 12, 253-262.
140. *Menon, N., Barbour, N., Zhang, Y., Pinjari, A., Mannering, F., 2019. Shared autonomous vehicles and their potential impacts on household vehicle ownership: An exploratory empirical assessment. *International Journal of Sustainable Transportation* 13(2), 111-122.
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145. Sheela, P., Mannering, F., 2020. The effect of information on changing opinions toward autonomous vehicle adoption: An exploratory analysis. Forthcoming in the *International Journal of Sustainable Transportation*, [https://doi.org/ 10.1080/15568318.2019.1573389](https://doi.org/10.1080/15568318.2019.1573389).

Citations of Published Work

Published work has been cited 8,242 times in Clarivate Analytics Web of Science Core Collection, with h -index = 45. (<https://publons.com/researcher/2601045/fred-l-mannering/>)

Published work has been cited 10,976 times in Scopus (Elsevier), with h -index = 49. (<https://www.scopus.com/authid/detail.uri?authorId=7005423388>)

Published work has been cited 20,626 times in Google Scholar with h -index = 63. (<https://scholar.google.com/citations?user=HJc-5WMAAAAJ&hl=en>)

Working Papers

Menon, N., Zhang, Y., Pinjari, A., Mannering, F., A statistical analysis of consumers' perceptions towards automated vehicles and their intended adoption. Working paper.

Barbour, N., Zhang, Y., Mannering, F., An exploratory analysis of the role of socio-demographic and health-related factors in ridehailing behavior. Working paper.

Barbour, N., Zhang, Y., Mannering, F., Individuals' willingness to rent their personal vehicle to others: An exploratory assessment. Working paper.

Islam M., Alnawmasi, N., Mannering, F., Unobserved heterogeneity and temporal instability in the analysis work-zone crash-injury severities. Working paper.

Alnawmasi, N., Mannering, F., The impact of higher speed limits on the frequency and severity of freeway crashes: Accounting for temporal instability and unobserved heterogeneity. Working paper.

Mannering, W., Vogelsang, M., Busey, T., Mannering, F., Modelling the alignment between societal values and fingerprint examiner decisions. Working paper.

Zamenian, H., Abraham, D., Mannering, F., Analysis of household attitudes toward water service reliability and quality. Working paper.

Mannering, F., Bhat, C., Shankar, V., Abdel-Aty, M., Big data, traditional data and the tradeoffs between prediction and causality in highway-safety analysis. Working paper.

Islam M., Mannering, F., A statistical assessment of unobserved heterogeneity and temporal instability in the effect of aggressive driving on driver-injury severities. Working paper.

Books

1. Mannering, F., Kilareski, W., 1990, 1998. Principles of highway engineering and traffic analysis. John Wiley and Sons, New York, NY. First edition, 251 pages, 1990. Second edition, 340 pages, 1998.

Mannering, F., Kilareski, W., Washburn, S., 2005. Principles of highway engineering and traffic analysis. John Wiley and Sons, New York, NY. Third edition, 384 pages.

Mannering, F., Washburn, S., Kilareski, W., 2009. Principles of highway engineering and traffic analysis. John Wiley and Sons, New York, NY. Fourth edition, 420 pages.

Mannering, F., Washburn, S., 2013, 2017, 2020. Principles of highway engineering and traffic analysis. John Wiley and Sons, New York, NY. Fifth edition, U.S. edition 347 pages (published March 2012, ©2013), SI-units edition 341 pages (published December 2012, ©2013). Sixth edition, 416 pages, (published September 2016, ©2017). Seventh edition forthcoming in 2020.

2. Washington, S., Karlaftis, M., Mannering, F., 2003, 2011. Statistical and econometric methods for transportation data analysis. Chapman and Hall/CRC, Boca Raton, FL, First edition 439 pages, 2003. Second edition 544 pages, (published December 2010, ©2011).

Washington, S., Karlaftis, M., Mannering, F., Anastasopoulos, P., 2020. Statistical and econometric methods for transportation data analysis. Chapman and Hall/CRC, Boca Raton, FL. Third edition forthcoming.

Refereed Parts of Books

1. Mannering, F., Winston C., 1987. U.S. automobile market demand. In *Blind Intersection: Policy and the Automobile Industry*. Brookings Institution, Washington DC, 36-60.
2. Mannering, F., Winston C., 1987, 1998. Economic effects of voluntary export restrictions. In *Blind Intersection: Policy and the Automobile Industry*. Brookings Institution, Washington DC, 61-67. Reprinted in *Price Theory and Its Applications*. B. Saffran and F.M. Scherer, eds., Edward Elgar, Cheltenham/Surrey, UK.
3. Mannering, F., Winston C., 1987. Recent automobile occupant safety proposals. In *Blind Intersection: Policy and the Automobile Industry*. Brookings Institution, Washington, DC, 68-88.
4. Kim, S.-G., Mannering, F., 1997. Panel data and activity duration models: Econometric alternatives and applications. In *Panels for Transportation Planning: Methods and Applications*. Tom Golob, Ryuichi Kitamura, and Lyn Long, eds., Kluwer, Norwell, MA, 349-373.
5. Mannering, F., 1998. Modeling driver decision-making: A review of methodological alternatives. In *Human Factors in Intelligent Transportation Systems*. Woodrow Barfield and Tom Dingus, eds., Lawrence Erlbaum, Mahwah, NJ, 187-216.
6. Mannering, F., 2018. Cross-sectional modelling. In *Safe Mobility: Challenges, Methodology and Solutions*. Dominique Lord and Simon Washington, eds., Transport and Sustainability Volume 11, Emerald Group Publishing, Binley, West Yorkshire, UK, 257-277.

Proceedings

1. Harrington, I., Mannering, F., 1982. Methodology for evaluating freight transportation energy contingency strategies. *Proceedings of the Transportation Research Forum*.
2. Mannering, F., Kilareski, W., Luhr D., Kutz, S., 1985. Interactive data base for pavement management. *Proceedings of the North American Pavement Management Conference*.

3. Mannering, F., 1986. Equilibration in automobile markets using dynamic disaggregate models of vehicle demand. *Proceedings of the Seventeenth Annual Pittsburgh Conference on Modeling and Simulation*.
4. Kilaeski, W., Mannering, F., 1986. Interactive graphics database for transportation infrastructure information systems. *Proceedings of the Fourth Conference on Computing in Civil Engineering*, American Society of Civil Engineers.
5. Hamed, M., Mannering, F., 1989. Time-varying conditions and their effect on dynamic traffic assignment algorithms. *Proceedings of the First International Conference on Applications of Advanced Technologies in Transportation Engineering*, San Diego, CA.
6. Mannering, F., Hamed, M., 1990. Effect of frequent flyer programs on travelers' choice of airline: an empirical analysis. *Proceedings of the Twenty-First Annual Modeling and Simulation Conference*, Pittsburgh, PA.
7. Mannering, F., Sebranke, B., 1990. Optimal levels of traffic congestion information for urban commuting: a simulation analysis. *Proceedings of the Twenty-First Annual Modeling and Simulation Conference*, Pittsburgh, PA.
8. Hamed, M., Mannering, F., 1991. Simulation of travelers' post-work activity involvement in time and space. *Proceedings of the Twenty-Second Annual Modeling and Simulation Conference*, Pittsburgh, PA.
9. Mannering, F., 1991. Duration models and highway accident risk: A study of alternate parametric forms. *Proceedings of the Twenty-Second Annual Modeling and Simulation Conference*, Pittsburgh, PA.
10. Mannering, F., Murakami, E., Kim, S.-G., 1992. Analysis of the temporal stability of parameters in activity-based travel behavior models. *Proceedings of the Sixth World Conference on Transport Research*, Lyon, France.
11. Kim, S.-G., Mannering, F., 1992. Panel data and activity duration models: Econometric alternatives and applications. *Proceedings of the First U.S. Conference on Panels for Transportation Planning*, Irvine, CA.
12. Abdel-Aty, M., Vaughn, K., Kitamura, R., Jovanis, P., Mannering, F., 1994. Impact of traffic information on commuters' behavior: empirical results from southern California and their implications for ATIS. *Proceedings of the 4th Annual Meeting of IVHS America*, Atlanta, GA.
13. Atman, C., Turns, J., Mannering, F., 1999. Integrating knowledge across the engineering curriculum. *29th ASEE/IEEE Frontiers in Education Conference*, San Juan, PR.
14. Turns, J., Atman, C., Mannering, F., 2000. Preparing for professional practice: Course evaluation and implications, *30th ASEE/IEEE Frontiers in Education Conference*, Kansas City, MO.
15. Mannering, F., 2007. Effects of interstate speed limits on driving speeds: Some new evidence. Compendium of papers, Transportation Research Board 86th Annual Meeting, Paper No. 07-0120, Washington DC.

16. Davis, R., Sinha, K.C., Mannering, F., 2009. Factors affecting willingness to pay for high-occupancy toll (HOT) lanes. Compendium of papers DVD, Transportation Research Board 88th Annual Meeting, Paper No. 09-0589, Washington DC.
17. Peralta, M., Abraham, D., Mannering, F., 2009. Assessment of impacts of high-rise buildings on the electric and transportation infrastructures in developing countries, *Building a Sustainable Future – Proceedings of the 2009 Construction Research Congress*, 1154-1163.
18. Peralta, M., Abraham, D., Mannering, F., 2009. Assessment of urban growth on the performance of critical infrastructures in developing countries, *Proceedings of the 2009 ASCE International Workshop on Computing in Civil Engineering*, 348-358.
19. Van Boxel, D., Sinha, K.C., Bullock, D., Mannering, F., 2010. An exploratory study of vehicle class headway ratios as passenger car equivalence values using three-stage least squares estimation. Compendium of papers, Transportation Research Board 89th Annual Meeting, Paper No. 10-0217, Washington DC.
20. Hernandez, S., Peeta, S., Mannering, F., 2011. An exploratory analysis of the propensity for freight-carrier collaboration. Compendium of papers, Transportation Research Board 90th Annual Meeting, Paper No. 11-1032, Washington DC.
21. Valentin, V., Abraham, D., Mannering, F., Mostafavi, A., 2012. Assessment of public opposition to infrastructure developments: The case of nuclear power projects. *Construction Research Congress 2012: Construction Challenges in a Flat World, Proceedings of the 2012 Construction Research Congress*, 1550-1559.
22. Mostafavi, A., Abraham, D., Mannering, F., Vives, A., Valentin, V., 2012. Assessment of public perceptions of innovative financing for infrastructure. *Construction Research Congress 2012: Construction Challenges in a Flat World, Proceedings of the 2012 Construction Research Congress*, 2260-2269.
23. Zamenian, H., Abraham, D., Mannering, F., 2016. Predicting water main breaks' frequency in water distribution systems. *Construction Research Congress 2016: Old and New Technologies Converge, Proceedings of the 2016 Construction Research Congress*, 1599-1608.

Other Scholarly Publications

1. Mannering, F., 1981. Simulation techniques for travel demand forecasting. *Simuletter* 12(1-4).
2. Mannering, F., 1983. Dynamic econometric models of household vehicle ownership and utilization, doctoral dissertation. Massachusetts Institute of Technology, Cambridge, MA. Dissertation committee: Clifford Winston (supervisor), Daniel McFadden (2000 Nobel Laureate in Economics), and Ann Friedlaender.
http://cee.eng.usf.edu/faculty/flm/Hobbies_files/Mannering-PHD-Thesis.pdf
3. Mannering, F., 1985. Review of the book, *Urban Transportation Planning: A Decision Oriented Approach*, by Meyer and Miller. *Transportation Science* 19(3).
4. Mannering, F., 1991. Review of the book, *Modelling Transport*, by Ortuzar and Willumsen. *Transportation Science* 25(4).

5. Mannering, F., 1993. Lost Customer Loyalty. *ITS Review*, University of California, Berkeley, February.
6. Barfield, W., Mannering, F., 1993. Editorial, Behavioral and human factors issues in advanced traveler information systems. *Transportation Research Part C* 1(2).
7. Mannering, F., 1994. Review of the book, *Dimensions of Automobile Demand*, by Hensher, Smith, Milthorpe, and Barnard. *Transportation Science* 28(1).
8. Mannering, F., 1994. Male/female driver characteristics and accident risk: Some new evidence – Reply. *Accident Analysis and Prevention* 26(1).
9. Washburn, S., Mannering, F., 2003. Statistical modeling of vehicle emissions from inspection/maintenance testing data: An exploratory analysis – Reply. *Transportation Research Part D* 8(1).
10. Niemeier, D., Mannering F., 2007. Editorial, Bridging research and practice: A synthesis of best practices in travel demand modeling. *Transportation Research Part A* 41(5).

Editorial Activities

Founding Editor and Editor-in-Chief, *Analytic Methods in Accident Research*, Elsevier Science, 2013-present. Web-of-Science 2018 Journal Impact Factor = 9.33, Scopus 2018 CiteScore = 9.41 (ranked #1 among transportation journals in both metrics).

Editor-in-Chief, *Transportation Research Part B (Methodological)*, Elsevier Science, 2003-2012.

Associate Editor, *Transportation Research Part B (Methodological)*, Elsevier Science, 2003, 2013-2019.

Associate Editor, *Transportation Research Part A (Policy and Practice)*, Elsevier Science, 2001-2002.

Distinguished Journal Editorial Board, *Transportation Research Part B (Methodological)*, Elsevier Science, 2019-present.

Editorial Advisory Board, *Accident Analysis and Prevention*, Elsevier Science, 2013-present.

Editorial Advisory Board, *Transportation Research Part C (Emerging Technologies)*, Elsevier Science, 2013-present.

Editorial Advisory Board, *Transportation*, Kluwer Academic Publishers, 1999-2008.

Editorial Advisory Board, *Transportation Research Part B (Methodological)*, Elsevier Science, 1984-2001.

Guest editor, *Transportation Research Part A* 41(5), 2007. Special Issue: A synthesis of best practices in travel demand modeling, with Deb Niemeier.

Guest editor, *Transportation Research Part C* 1(2), 1993. Special Issue: Behavioral and human factors issues in advanced traveler information systems, with Woodrow Barfield.

Guest editor, *Transportation Research Part B* 19(4), 1985. Special Issue: Economic models of automobile demand, with Kenneth Train.

Awards and Recognition

The paper: Poch, M., Mannering, F., 1996. Negative binomial analysis of intersection-accident frequencies. *Journal of Transportation Engineering* 122(2), 105-113, identified by the American Society of Civil Engineers journal Editor as one of four influential papers in the *Journal of Transportation Engineering* that have been instrumental in moving Civil Engineering forward or have changed the practice of transportation engineering, infrastructure, and development (<https://ascelibrary.org/influentialpapers>), 2019.

Inclusion in the Eno Foundation's "Top 10 Transportation Thought Leaders in Academia", Washington, DC. (<https://www.enotrans.org/article/lists-top-10-transportation-thought-leaders-academia/>), 2016.

Most Cited Researchers: Academic Ranking of World Universities, Global Ranking of Academic Subjects, Civil Engineering (<http://www.shanghairanking.com/The-Most-Cited-Researchers-Developed-for-ShanghaiRanking-Global-Ranking-of-Academic-Subjects-2016-by-Elsevier.html>), 2016.

Best paper award for developing research that has significant private-sector applicability (Guo, Y., Peeta, S., Mannering, F., 2014. Rail-truck multimodal freight collaboration: A statistical analysis freight shipper perspectives). Given by the Transportation Research Board's Intermodal Freight Committee (AT045), 2015.

Inducted into Purdue University's "Book of Great Teachers", 2013.

Fellow, Purdue University Teaching Academy, 2013-present.

Charles B. Murphy Outstanding Undergraduate Teaching Award. Purdue University's highest undergraduate teaching honor, 2013.

Arthur M. Wellington Prize, American Society of Civil Engineers, for the best paper in the *Journal of Transportation Engineering* (Hubbard, S., Bullock, D., Mannering F., 2009. Right turns on green and pedestrian level of service: A statistical assessment. *Journal of Transportation Engineering* 135(4), 153-159), 2010.

Best annual meeting paper award (Washington, S., Congdon, P., Karlaftis, M., Mannering F., 2009. Bayesian multinomial logit: Theory and route choice example. *Transportation Research Record* 2136, 28-36). Given by the Transportation Research Board's Committee on Statistical Methodology and Statistical Computer Software in Transportation Research, 2010.

James Laurie Prize, "For his outstanding contribution to the advancement of transportation engineering through his influential research and publication in the area of highway safety", Granted by the American Society of Civil Engineers, 2009.

Harold Munson Best Teacher Award, School of Civil Engineering, Purdue University, 2007.

Wilbur S. Smith Award, “For outstanding contributions to the enhancement of the role of the civil engineer in highway engineering through excellence in teaching and research”, Granted by the American Society of Civil Engineers, 2005.

National Highway Safety Award for: Method for prioritizing intersection improvements, prepared for the Washington State Department of Transportation, WA-RD 413.1, (with L. Larson), January 1997. Granted by the U.S. Department of Transportation, Federal Highway Administration and the Roadway Safety Foundation, 2001.

Elsevier Science’s “Classic Journal Articles” list for the paper: Mannering, F., 1993. Male/female driver characteristics and accident risk: some new evidence, *Accident Analysis and Prevention* 25(1), 77-84. One of 22 classic journal articles selected from the first 34 years of *Accident Analysis and Prevention*, 2000.

The paper: Mannering, F., Winston, C., 1987. Economic effects of voluntary export restrictions, in *Blind Intersection: Policy and the Automobile Industry*, Brookings Institution, Washington DC, 61-67, selected for inclusion in *Price Theory and Its Applications*, an authoritative collection of 34 influential papers on price theory dating from 1945-1995 (including articles by Nobel Laureates), B. Saffran and F.M. Scherer, eds., Edward Elgar, UK, 1998.

Professor of the Year Award, American Society of Civil Engineers, University of Washington student chapter, 1988.

Keynote Speeches and Distinguished Lectures

Keynote Speaker, 10th International Conference of the Eastern Asia Society for Transportation Studies, Taipei, Taiwan, September 2013.

Keynote Speaker, Third International Conference on Road Safety and Simulation, Indianapolis, IN, September 2011.

Keynote speaker, Third International Congress on Transport Research in Greece, Thessaloniki, Greece, May 2006.

Distinguished Lecturer, Distinguished Lecture Series, University of Hong Kong, Hong Kong, October 2012.

Caterpillar Edge of Technology Lecture, jointly sponsored by the Departments of Industrial and Civil and Environmental Engineering, University of Iowa, April 2009.

Distinguished Speaker, Department of Civil, Environmental and Construction Engineering, University of Central Florida, January 2009.

Warren Lecturer, Department of Civil and Environmental Engineering, University of Minnesota, November 2008.

Distinguished Lecturer, STAR Lab Distinguished Lecture Series, Department of Civil and Environmental Engineering, University of Washington, May 2008.

Distinguished Lecturer, Distinguished Lecturer Seminar Series, Department of Civil and Coastal Engineering, University of Florida, December 2007.

Professional Activities

Board of Advisors, Institute of Transportation Studies, University of California - Davis, 2005-2013.

Engineering Panelist, Norman Hackerman Advanced Research Program, Texas Higher Education Coordinating Board, 2009-2010.

Advisory Board, Mid-Atlantic Universities Transportation Center, 2003-05.

Transportation Research Board University Representative, Purdue University, 2001-2013.

Transportation Research Board Committee ANF30, Motorcycles and Mopeds, two terms 2004-06, 2007-10.

Transportation Research Board Committee A1C01, Travel Demand and Forecasting, seven terms 1985-88, 1988-91, 1991-94, 1994-97, 1997-2000, 2000-03, 2003-06.

Transportation Research Board Committee A1C05, Transportation Supply Analysis, 1994-97.

Transportation Research Board Committee A1F01, Energy Conservation and Transportation Demand, 1987-90.

Committee Chair, External Review Team, for the establishment of a Master of Engineering program at Southern University, Louisiana Board of Regents, 2000.

Moderator of the session “Making canoes out of concrete” at the 2000 annual meeting of the American Society of Civil Engineers, Seattle, WA, October 2000.

Chair of the session “Advances in transportation modeling and simulation” at the Twenty-Second Annual Modeling and Simulation Conference, Pittsburgh, PA, May 1991.

Chair of the session “Dynamic models of commuter behavior” at the spring meeting of the Operations Research Society of America, Vancouver, BC, 1989.

Record of Funded Research

1. Traffic analysis for the Altoona Area. Pennsylvania Department of Transportation, \$15,877 (with T. Davinroy, Pennsylvania State University). 1983-84.
2. Evaluation/modification of graphic generator for roadway management systems. IBM Corporation, \$250,000 (with W. Kilariski and D. Luhr, Pennsylvania State University). 1984-86.
3. Altoona area traffic analysis: An evaluation of U.S. Route 220 northern access. Pennsylvania Department of Transportation, \$20,113 (with T. Davinroy, Pennsylvania State University). 1985-86.
4. Roadway data exploration system. Federal Highway Administration, \$59,998. 1985-87.
5. A compensating variation approach to optimal traffic signal timings. Graduate School Research Fund, University of Washington, \$5,400. 1987-88.

6. Development of the framework for a labor intensive construction site forecasting model. National Science Foundation, \$202,013 (with H. R. Thomas, Pennsylvania State University). 1987-89.
7. Generation and assessment of incident management strategies. Washington State Department of Transportation, \$127,000. 1988-89.
8. Proposal to design and produce a guide for performing traffic forecasting. Washington State Department of Transportation, \$56,866. 1988-90.
9. A framework for developing incident management systems. Federal Highway Administration, \$149,440. 1989-91.
10. Incident management resource guide. Washington State Department of Transportation, \$25,000. 1990-91.
11. Particulate matter dispersion near urban freeways. Washington State Department of Transportation, \$35,400. 1990-92.
12. Videotapes: incident management. Federal Highway Administration, \$30,000. 1990-91.
13. Automated motorist information from real-time traffic detection system. Washington State Department of Transportation, \$50,000. 1991-92.
14. Emergency response guide for managers. Washington State Department of Transportation, \$50,000. 1991-92.
15. A demonstration of the incident management system framework. Washington State Department of Transportation, \$25,000. 1992-93.
16. Truck lane restriction evaluation. Washington State Department of Transportation, \$65,000. 1992-93.
17. Incident response database. Washington State Department of Transportation, \$70,000. 1992-94.
18. Human factors and intelligent vehicle highway systems. Federal Highway Administration \$160,000 (with W. Barfield). 1992-95.
19. Evaluation and application of Washington State's incident response guide. Washington State Department of Transportation, \$24,900. 1993-94.
20. I-90 HOV lane conversion study. Washington State Department of Transportation, \$50,000. 1993-94.
21. The use of total station surveying equipment for accident investigation: a national perspective. Washington State Department of Transportation, \$26,700. 1994-95.
22. Predicting accident risk on highways on the basis of roadway geometrics. Washington State Department of Transportation, \$42,700. 1994-96.
23. Freight productivity improvements along urban corridors. Washington State Department of Transportation, \$74,500. 1994-96.

24. Intersection improvement priority program. Washington State Department of Transportation, \$20,150. 1995-96.
25. Incident management system framework revision. Federal Highway Administration, \$18,800. 1995.
26. Evaluation of Washington's incident response team program. Washington State Department of Transportation, \$60,000. 1995-97.
27. Evaluation of highway reconstruction practices. Washington State Department of Transportation, \$50,000 (with P. Dunston). 1997-98.
28. Analysis of roadside accident severity and roadside safety management. Washington State Department of Transportation, \$110,000. 1998-99.
29. Evaluation of variable message signs and in-vehicle systems. Federal Highway Administration and National Highway Transportation Safety Administration, \$485,200 (with W. Barfield 1993-96, sole principal investigator 1996-2002). 1993-2002.
30. An assessment of highway roughness. Washington State Department of Transportation, \$102,500. 2000-03.
31. Transportation, distribution and logistics: a strategic opportunity for Indiana and Purdue. Central Indiana Corporate Partnership, \$285,000 (with R. Uzsoy, L. Schwarz, E. Schmidt, D. Bullock, V. Deshpande, C. Clifton, A. Elmagarmid, M. Lawley, R. Eberts, J. Pekney, E. Howell, R. Rardin, and J. Schneider). 2003-04.
32. Influence of speed on highway safety. Joint Transportation Research Program, Indiana Department of Transportation, \$100,000 (with S. Labi). 2005-07.
33. Safety and operational impacts of alternative intersections. Indiana Department of Transportation and Federal Highway Administration, \$126,102 (with A. Tarko). 2006-08.
34. Identification of Indiana's traffic safety problems, 2006-07. Indiana Criminal Justice Institute, \$119,975 (with A. Tarko and J. Thomaz). 2006-07.
35. Safety impacts of design exceptions. Joint Transportation Research Program, Indiana Department of Transportation, \$100,000. 2007-08.
36. Travel time reliability in Indiana. Joint Transportation Research Program, Indiana Department of Transportation, \$75,000 (with K.C. Sinha). 2007-10.
37. Effectiveness and service lives/survival curves of various pavement rehabilitation treatments. Joint Transportation Research Program, Indiana Department of Transportation, \$100,000 (with J. Haddock). 2008-10.
38. Analysis of travel time reliability on Indiana Interstates. NEXTRANS supplemental project, U.S. Department of Transportation Region 5 University Transportation Center, \$47,000. 2008-10.
39. Estimating the economic impacts of disruptions to intermodal freight systems. NEXTRANS project, U.S. Department of Transportation Region 5 University Transportation Center, \$50,000 (with S. Ukkusuri and A. Mitra). 2011-12.

40. Toward performance related specifications for concrete pavements, Joint Transportation Research Program, Indiana Department of Transportation, \$350,000 (with J. Weiss and P. Zavattieri). 2013-15.
41. Indiana state highway cost allocation and revenue attribution study, Joint Transportation Research Program, Indiana Department of Transportation, \$375,000 (with S. Labi and K. Sinha). 2013-15.
42. Data integration for pavements – from design to maintenance and use of automated pavement distress data in INDOT pavement management system, Joint Transportation Research Program, Indiana Department of Transportation, \$200,000 (with H. Cai and A. Kandil). 2014-16.
43. Safety effects of raising speed limits to 75 mi/h and higher, National Cooperative Highway Research Program, U.S. Department of Transportation, \$75,000 (subcontract to Texas A&M University). 2016-19.
44. TOMNET (Teaching old models new tricks), Developing new methods for updating and improving activity and travel demand models, Tier 1 University Transportation Center, U.S. Department of Transportation, \$660,000. 2016-21.

Project Reports to Sponsor

1. Methodology for evaluating the impacts of energy, national economy, and public policies on state highway financing and performance. Joint Highway Research Project, JHRP 79-6, Purdue University, June 1979.
2. Traffic analysis for the Altoona area: technical report. Prepared for the Blair County Planning Commission, December 1984 (with S. Abu-Eisheh and T. Davinroy).
3. Transportation facilities information system: applying GPG to highway and bridge networks. Interim report to IBM, January 1986 (with W. Kilareski, W. Bottiger, C. Gonot).
4. Transportation facilities information system: applying GPG and GDDBS to highway and bridge networks, summary. Final report to IBM, Vol. I, July 1986 (with W. Kilareski, D. Luhr, W. Marks, W. Bottiger, C. Gonot).
5. Transportation facilities information system: applying GPG and GDDBS to highway and bridge networks, technical overview. Report to IBM, Vol. II, July 1986 (with W. Kilareski, D. Luhr, W. Bottiger, C. Gonot).
6. Transportation facilities information system: applying GPG and GDDBS to highway and bridge networks, source code. Final report to IBM, Vol. III, July 1986 (with W. Bottiger, C. Gonot, W. Kilareski).
7. Altoona area traffic analysis: an evaluation of U.S. Route 220 northern access. Prepared for the Blair County Planning Commission, October 1986 (with S. Abu-Eisheh and T. B. Davinroy).
8. Generation and assessment of incident management strategies, Volume I: Summary Report, WA-RD 204.1, (with B. Jones, D. Garrison, B. Sebranke, L. Janssen), Volume II: Management, surveillance, control, and evaluation of freeway incidents: A review of

- existing literature, WA-RD 204.2, (with B. Jones); Volume III: Analysis of freeway incidents in the Seattle area, WA-RD 204.3, (with B. Jones, L. Janssen, B. Sebranke); Volume IV: Seattle-area incident impact analysis: Microcomputer traffic simulation results, WA-RD 204.4, (with D. Garrison, B. Sebranke), Volume V: Seattle-area incident management: Assessment and recommendations, WA-RD 204.5, (with B. Jones and B. Sebranke), August 1989.
9. An exploratory study of productivity forecasting using the factor model for masonry. Final Report for National Science Foundation Grant No. MSM-8611600 (with H. Thomas, G. Smith, S. Sanders), December 1989.
 10. Incident response guide, office reference and field guide. Prepared for the Washington State Transportation Commission (with L. Tanemura), WA-RD 225.1, January 1991.
 11. Incident management systems framework: impacts of service patrols. Prepared for the Washington State Transportation Commission and the Federal Highway Administration, WA-RD 221.1, (with M. Hallenbeck), March 1991.
 12. Framework for developing incident management systems. Prepared for the Washington State Transportation Commission and the Federal Highway Administration, WA-RD 224.1 (with J. Koehne, M. Hallenbeck), August 1991.
 13. Development of incident management systems: the Seattle case study. Prepared for the Washington State Transportation Commission and the Federal Highway Administration, WA-RD 221.2, (with J. Koehne), July 1991.
 14. Automated vehicle delay estimation and motorist information at the U.S./Canadian border. Prepared for the Washington State Transportation Commission and the U.S. Department of Transportation, WA-RD 258.1, (with T. Paselk), July 1992.
 15. Analysis of particulate matter dispersion near urban roadways. Prepared for the Washington State Transportation Commission and the U.S. Department of Transportation, WA-RD 262.1, (with M. Balogh), July 1992.
 16. Development of an emergency response guide for Washington State Department of Transportation Highway Maintenance Managers. Prepared for the Washington State Department of Transportation, WA-RD 290.1, (with M. Louie and B. Legg), February 1993.
 17. Emergency response guide for managers. Prepared for the Washington State Department of Transportation, M54-11, (with M. Louie and D. Reed), April 1993.
 18. Truck restriction evaluation: the Puget Sound experience. Prepared for the Washington State Department of Transportation, WA-RD 307.1, (with J. Koehne and J. Araucto), August 1993.
 19. Incident management system demonstration. Prepared for the Washington State Department of Transportation, WA-RD 311.2, (with S. Zeller), November 1993.
 20. Models of commuters' information use and route choice: initial results based on a southern California commuter route choice survey. Prepared for the California PATH Program, UCB-ITS-PWP-93-21, (with M. Abdel-Aty, K. Vaughn, R. Kitamura, and P. Jovanis), November 1993.

21. Evaluation and application of Washington State's incident response guide. Prepared for the Washington State Department of Transportation, WA-RD 366.1, (with J. Koehne), November 1994.
22. I-90 lane conversion evaluation. Prepared for the Washington State Department of Transportation, WA-RD 362.1, (with S.-G. Kim and J. Koehne), February 1995.
23. Development and evaluation of an incident response database for Washington State. Prepared for the Washington State Department of Transportation, WA-RD 352.1, (with A. Cutting and R. Porter), September 1995.
24. The relationship between highway geometrics, traffic-related elements, and motor vehicle accidents. Prepared for the Washington State Department of Transportation, WA-RD 403.1, (with J. Milton), March 1996.
25. The potential for freight productivity improvements along urban corridors. Prepared for the Washington State Department of Transportation, WA-RD 415.1, (with A. Trowbridge, D. Nam, and J. Carson), December 1996.
26. Method for prioritizing intersection improvements. Prepared for the Washington State Department of Transportation, WA-RD 413.1, (with L. Larson), January 1997.
27. Evaluation of the full weekend closure strategy for highway reconstruction projects: I405 Tukwila to Factoria. Prepared for the Washington State Department of Transportation, WA-RD 454.1, (with P. Dunston, D. Nam, J. Lee, and B. Savage), October 1998.
28. Analysis of roadside accident frequency and severity and roadside safety management. Prepared for the Washington State Department of Transportation, WA-RD 475.1, (with J. Lee), December 1999.
29. In-vehicle signing and variable speed limit evaluation: TravelAid. Prepared for the Washington State Department of Transportation, Final Report, WA-RD 511.1 and Summary Report, WA-RD 511.2 (with G. Ulfarsson, V. Shankar, P. Vu, L. Boyle, M. Morse), December 2001 and February 2002.
30. A statistical analysis of factors associated with driver-perceived road roughness on urban highways. Prepared for the Washington State Department of Transportation, Research Report, WA-RD 583.1, (with K. Shafizadeh and L. Pierce), September 2002.
31. Influence of speed limits on roadway safety in Indiana. Prepared for the Joint Transportation Research Program, Indiana Department of Transportation, Federal Highway Administration, Project No. C-36-59VV, (with N. Malyskina and S. Labi), September 2007.
32. Safety impacts of design exceptions. Prepared for the Joint Transportation Research Program, Indiana Department of Transportation, Federal Highway Administration, Project No. C-36-56DDD, (with N. Malyskina and J. Thomaz), April 2009.
33. Effectiveness and service lives/survival curves of various pavement rehabilitation treatments. Prepared for the Joint Transportation Research Program, Indiana Department of Transportation, Federal Highway Administration, Project No. C-36-78Q, (with P. Anastasopoulos and J. Haddock), June 2009.

34. Travel time reliability in Indiana. Prepared for the Joint Transportation Research Program, Indiana Department of Transportation, (with M. Martchouk and L. Singh), August 2009.
35. Analysis of travel time reliability on Indiana Interstates. Prepared for NEXTRANS, U.S. Department of Transportation Region 5 University Transportation Center, (with M. Martchouk), August 2009.
36. Investigation of the role of attitudinal factors on the adoption of emerging automated vehicle and safety technologies. Prepared for Center for Teaching Old Models New Tricks (TOMNET), U.S. Department of Transportation University Transportation Center, (with M. Maness, A. Pinjari, Y. Zhang, S. Balusu, N. Barbour, N. Menon, P. Sheela, D. Tahlyan), August 2018.
37. Emerging econometric and data collection methods for capturing attitudinal and social factors in activity, travel behavior and safety modeling. Prepared for Center for Teaching Old Models New Tricks (TOMNET), U.S. Department of Transportation University Transportation Center, (with M. Maness, A. Pinjari, Y. Zhang, S. Balusu, N. Barbour, A. Behnood, N. Eluru, T. Luong, D. Mishra, P. Sheela, D. Tahlyan), August 2019.

Papers Presented at Technical and Professional Meetings

1. Mannering, F. and K. C. Sinha, Methodology for evaluating the impacts of energy, national economy, and public policies on highway financing and system performance, presented at the 1980 annual meeting of the Transportation Research Board by F. Mannering, Washington, DC.
2. Mannering, F. and I. Harrington, Use of density function and Monte Carlo simulation techniques in the evaluation of policy impacts on travel demand, presented at the 1981 annual meeting of the Transportation Research Board by F. Mannering, Washington, DC.
3. Harrington, I. and F. Mannering, Methodology for evaluating freight transportation energy contingency strategies, presented at the 1982 annual meeting of the Transportation Research Forum by F. Mannering, New Orleans, LA.
4. Mannering, F. and K. C. Sinha, Simulation approach to assess highway performance, presented at the 1982 Autumn meeting of the American Society of Civil Engineers by K. C. Sinha, Miami, FL.
5. Mannering, F. and C. Winston, Dynamic empirical analysis of household vehicle ownership and utilization, presented at the 1982 annual meeting of the Econometric Society by C. Winston, New York, NY.
6. Winston, C. and F. Mannering, Consumer demand for automobile safety, presented at the ninety-sixth annual meeting of the American Economic Association by C. Winston, December 1983, San Francisco, CA.
7. Mannering, F., W. Kilareski, D. Luhr and S. Kutz, Interactive data base for pavement management, presented at the 1984 North American Pavement Management Conference by W. Kilareski, Toronto, Ontario.
8. Mannering, F. and H. Mahmassani, Consumer valuation of foreign and domestic vehicle attributes: econometric analysis and implications for auto demand, presented at the 1985 annual meeting of the Transportation Research Board by F. Mannering, Washington, DC.

9. Kilareski, W., F. Mannering, D. Luhr and S. Kutz, Transportation facilities information system for pavement management, presented at the 1985 annual meeting of the Transportation Research Board by W. Kilareski, Washington, DC.
10. Mannering, F., Selectivity bias in models of discrete/continuous choice: an empirical analysis, presented at the 1985 annual meeting of the Transportation Research Board, Washington, DC.
11. Mannering, F. and C. Winston, The determinants of safety belt utilization, presented at the 1985 spring meeting of the Operations Research Society of America by F. Mannering, Boston, MA.
12. Mannering, F. and G. Chu Te, Evidence on the impacts of manufacturer sourcing on vehicle demand, presented at the 1986 annual meeting of the Transportation Research Board by F. Mannering, Washington, DC.
13. Mannering, F., Equilibration in automobile markets using dynamic disaggregate models of vehicle demand, presented at the seventeenth annual Pittsburgh Conference on Modeling and Simulation, April 1986, Pittsburgh, PA.
14. Kilareski, W. and F. Mannering, Interactive graphics data base for transportation infrastructure information systems, presented at the Fourth Conference on Computing in Civil Engineering by F. Mannering, October 1986, Boston, MA.
15. Abu-Eisheh, S. and F. Mannering, A discrete/continuous analysis of commuters' route and departure time choice, presented at the 1987 annual meeting of the Transportation Research Board by S. Abu-Eisheh, Washington, DC.
16. Mannering, F., Analysis of the impact of interest rates on automobile demand, presented at the 1987 annual meeting of the Transportation Research Board, Washington, DC.
17. Abu-Eisheh, S. and F. Mannering, Traffic equilibrium with discrete/continuous route and departure time choice models, presented at the 1987 spring meeting of the Operations Research Society of America by F. Mannering, New Orleans, LA.
18. Mannering, F., Poisson analysis of commuter flexibility in changing route and departure times, presented at the 1988 annual meeting of the Transportation Research Board, Washington, DC.
19. Mannering, F., Compensating variation approach to optimal traffic signal timings, working paper, presented at the 1988 spring meeting of the Operations Research Society of America, Washington, DC.
20. Mannering, F. and H. Hamed, Analysis of commuters' work-to-home departure delay decisions, presented at the 1989 annual meeting of the Transportation Research Board by F. Mannering, Washington, DC.
21. Hamed, M. and F. Mannering, Time-varying conditions and their effect on dynamic traffic assignment algorithms, presented at the First International Conference on Applications of Advanced Technologies in Transportation Engineering by G. Davis, San Diego, CA, February 1989.

22. Mannering, F. and L. Janssen, Hazard functions and the duration of commuters' departure delay, presented at the 1989 spring meeting of the Operations Research Society of America by F. Mannering, Vancouver, BC.
23. Mannering, F. and M. Hamed, Effect of frequent flyer programs on travelers' choice of airline: an empirical analysis, presented at the Twenty-First Annual Modeling and Simulation Conference, by F. Mannering, Pittsburgh, PA, May 4, 1990.
24. Mannering, F. and B. Sebranke, Optimal levels of traffic congestion information for urban commuting: a simulation analysis, presented at the Twenty-First Annual Modeling and Simulation Conference, by F. Mannering, Pittsburgh, PA, May 4, 1990.
25. Mannering, F. and C. Winston, Brand loyalty and the decline of American automobile firms, presented at the Brookings Annual Microeconomics Conference, by C. Winston, Washington, DC, December 13-14, 1990.
26. Hamed, M. and F. Mannering, Modeling travelers' post-work activity involvement: toward a new methodology, presented at the 1991 annual meeting of the Transportation Research Board, by F. Mannering, Washington, DC.
27. Hamed, M. and F. Mannering, Simulation of travelers' post-work activity involvement in time and space, presented at the Twenty-Second Annual Modeling and Simulation Conference, by F. Mannering, Pittsburgh, PA, May 2, 1991.
28. Mannering, F., Duration models and highway accident risk: a study of alternate parametric forms, presented at the Twenty-Second Annual Modeling and Simulation Conference, Pittsburgh, PA, May 2, 1991.
29. Mannering, F., Male/female driver characteristics and accident risk: some new evidence, presented at the 1992 annual meeting of the Transportation Research Board, Washington, DC.
30. Mannering, F., E. Murakami and S.-G. Kim, Analysis of the temporal stability of parameters in activity-based travel behavior models, presented at Sixth World Conference on Transport Research, Lyon, France, July 1992.
31. Kim, S.-G. and F. Mannering, Panel data and activity duration models: econometric alternatives and applications, presented at the First U.S. Conference on Panels for Transportation Planning, by F. Mannering, Irvine, CA, October 1992.
32. Paselk, T. and F. Mannering, Use of duration models for predicting vehicular delay at U.S./Canadian border crossings, presented at the 1993 annual meeting of the Transportation Research Board, by F. Mannering, Washington, DC.
33. Balogh, M., T. Larson and F. Mannering, Analysis of fine particulate matter near urban roadways, presented at the 1993 annual meeting of the Transportation Research Board, by M. Balogh, Washington, DC.
34. Niemeier, D. and F. Mannering, Factors influencing changes in mode and workplace location: some empirical evidence, presented at the 1994 annual meeting of the Transportation Research Board, by F. Mannering, Washington, DC.

35. Koehne, J., M. Hallenbeck, and F. Mannering, Analysis of trucker and motorist opinions toward truck-lane restrictions, presented at the 1994 annual meeting of the Transportation Research Board, by J. Koehne, Washington, DC.
36. Mannering, F. and L. Grodsky, Statistical analysis of motorcyclists' self-assessed risk, presented at the 1994 annual meeting of the Transportation Research Board, by F. Mannering, Washington, DC.
37. Abdel-Aty, M., K. Vaughn, R. Kitamura, P. Jovanis, and F. Mannering, Models of commuters' information use and route choice: initial results based on a southern California commuter route choice survey, presented at the 1994 annual meeting of the Transportation Research Board, by M. Abdel-Aty, Washington, DC.
38. Mannering, F., S.-G. Kim, W. Barfield, and L. Ng, Statistical analysis of commuters' route, mode, and departure flexibility and the influence of traffic information, presented at the 1994 annual meeting of the Transportation Research Board, by D. Niemeier, Washington, DC.
39. Abdel-Aty, M., K. Vaughn, R. Kitamura, P. Jovanis, and F. Mannering, Impact of traffic information on commuters' behavior: empirical results from southern California and their implications for ATIS, presented at the 1994 Fourth Annual Meeting of IVHS America, by P. Jovanis, Atlanta, GA.
40. Ng, L., W. Barfield, and F. Mannering, A survey-based methodology to determine information requirements for advanced traveler information systems, presented at the 1995 annual meeting of the Transportation Research Board, by F. Mannering, Washington, DC.
41. Shankar, V., F. Mannering, and W. Barfield, Effect of roadway geometrics and environmental factors on rural accident frequencies, presented at the 1995 annual meeting of the Transportation Research Board, by F. Mannering, Washington, DC.
42. Mannering, F., J. Koehne, and S.-G. Kim, Statistical assessment of public opinions toward conversion of general purpose lanes to high occupancy vehicle lanes, presented at the 1995 annual meeting of the Transportation Research Board, by F. Mannering, Washington, DC.
43. Mannering, F., S.-G. Kim, L. Ng, and W. Barfield, Travelers' preferences for in-vehicle traffic information systems: an exploratory analysis, presented at the 1996 annual meeting of the Transportation Research Board, by F. Mannering, Washington, DC.
44. Shankar, V., F. Mannering, and W. Barfield, Statistical analysis of accident severity on rural freeways, presented at the 1996 annual meeting of the Transportation Research Board, by V. Shankar, Washington, DC.
45. Ng, L., R. Wessels, D. Do, F. Mannering, and W. Barfield, Statistical analysis of commercial driver and dispatcher requirements for advanced traveler information systems, presented at the 1996 annual meeting of the Transportation Research Board, by F. Mannering, Washington, DC.
46. Poch, M. and F. Mannering, Negative binomial analysis of intersection accident frequencies, presented at the 1996 annual meeting of the Transportation Research Board, by M. Poch, Washington, DC.

47. Milton, J. and F. Mannering, The relationship between highway geometrics, traffic-related elements and motor vehicle accidents, presented at the 1997 annual meeting of the Transportation Research Board, by J. Milton, Washington, DC.
48. Nam, D. and F. Mannering, Hazard-based analysis of highway incident duration, presented at the 1998 annual meeting of the Transportation Research Board, by F. Mannering, Washington, DC.
49. Chang, L.-Y. and F. Mannering, Predicting vehicle occupancy from accident data: An accident severity approach, presented at the 1998 annual meeting of the Transportation Research Board, by F. Mannering, Washington, DC.
50. Shankar, V., R. Albin, J. Milton, and F. Mannering, Evaluating median cross-over likelihoods with clustered accident counts: An empirical inquiry using the random effects negative binomial model, presented at the 1998 annual meeting of the Transportation Research Board, by V. Shankar, Washington, DC.
51. Shankar, V., J. Milton, and F. Mannering, Modeling accident frequencies as zero-altered probability processes: an empirical inquiry, presented at the 1998 annual meeting of the Transportation Research Board, by V. Shankar, Washington, DC.
52. Shankar, V. and F. Mannering, Modeling the endogeneity of lane-mean speeds and lane-speed deviations: A Structural Equations Approach, presented at the 1998 annual meeting of the Transportation Research Board, by V. Shankar, Washington, DC.
53. Boyle, L., W. Barfield, and F. Mannering, Analysis of private drivers' commuting and commercial drivers' work-related travel behavior, presented at the 1998 annual meeting of the Transportation Research Board, by L. Boyle, Washington, DC.
54. Shankar, V. and F. Mannering, Causality in traffic flow-safety relationships: modeling insights and implications for intelligent transportation systems, presented at the 1998 fall meeting of the Institute for Operations Research and the Management Sciences (INFORMS) by V. Shankar, Seattle, WA.
55. Boyle, L. and F. Mannering, Three stage least squares analysis of traveler information systems, presented at the 1998 fall meeting of the Institute for Operations Research and the Management Sciences (INFORMS) by F. Mannering, Seattle, WA.
56. Shankar, V., R. Albin, and F. Mannering, Introducing causality into highway infrastructure design policy: the usefulness of panel and cross-sectional count models, presented at the 1998 fall meeting of the Institute for Operations Research and the Management Sciences (INFORMS) by V. Shankar, Seattle, WA.
57. Nam, D., J. Lee, P. Dunston and F. Mannering, Analysis of the impacts of freeway reconstruction closures in urban areas, presented at the 1999 annual meeting of the Transportation Research Board, by D. Nam, Washington, DC.
58. Wallace, B., F. Mannering and S. Rutherford, Evaluation TDM strategies on trip generation using Poisson and negative binomial regression, presented at the 1999 annual meeting of the Transportation Research Board, by B. Wallace, Washington, DC.
59. Dunston, P. B. Savage, and F. Mannering, Analysis of paving construction quality for urban highway weekend closures, presented at the 1999 annual meeting of the Transportation Research Board, by P. Dunston, Washington, DC.

60. Chang L.-Y. and F. Mannering, Analysis of vehicle occupancy and the severity of truck- and non-truck involved accidents, presented at the 1999 annual meeting of the Transportation Research Board, by F. Mannering, Washington, DC.
61. Atman, C., J. Turns and F. Mannering, Integrating knowledge across the engineering curriculum, presented at the 29th ASEE/IEEE Frontiers in Education Conference, by C. Atman, San Juan, PR, 1999.
62. Ng, L. and F. Mannering, Statistical analysis of the impact of traveler advisory systems on driving behavior, presented at the 2000 annual meeting of the Transportation Research Board, by F. Mannering, Washington, DC.
63. Nam, D. and F. Mannering, Incident-induced congestion: an exploratory analysis of traveler perceptions and information needs, presented at the 2000 annual meeting of the Transportation Research Board, by F. Mannering, Washington, DC.
64. Turns, J., C. Atman and F. Mannering, Preparing for professional practice: Course evaluation and implications, presented at the 30th ASEE/IEEE Frontiers in Education Conference, by C. Atman, Kansas City, MO, 2000.
65. Nam, D. and F. Mannering, The Analysis of Freight Mobility Improvements with Reserved Capacity Strategies, presented at the 2001, 9th annual World Conference on Transport Research, Seoul, Korea by D. Nam.
66. Shafizadeh, K. and F. Mannering, Public Acceptability of Pavement Roughness on Urban Highways: An Empirical Analysis, presented at the 2003 annual meeting of the Transportation Research Board, by K. Shafizadeh, Washington, DC.
67. Shafizadeh, K. and F. Mannering, Statistical analysis of user-perceived road roughness on urban highways, presented at the 2003 annual meeting of the Transportation Research Board, by K. Shafizadeh, Washington, DC.
68. Choocharukul, K., K. Sinha and F. Mannering, Road user perceptions of freeway level of service: some new evidence, presented at the 2004 annual meeting of the Transportation Research Board, by K. Sinha and F. Mannering, Washington, DC.
69. Washington, S., P. Congdon, M. Karlaftis and F. Mannering, Bayesian multinomial logit models: an exploratory assessment of transportation applications, presented at the 2005 annual meeting of the Transportation Research Board, by S. Washington, Washington, DC.
70. Hamideh, A., J. Oh, S. Labi and F. Mannering, An econometric analysis of post-election opinion surveys: Understanding public acceptance of local transportation sales taxes, presented at the 2006 annual meeting of the Transportation Research Board, by A. Hamideh, Washington, DC.
71. Gkritza, K., S. Labi, F. Mannering and K. C. Sinha, Economic development effects of highway added-capacity projects, presented at the Third International Conference on Transportation and Economic Development, by K. Gkritza, Little Rock, AR, 2006.
72. Savolainen, P. and F. Mannering, Additional evidence on the effectiveness of motorcycle training and motorcyclists' risk-taking behavior, presented at the 2007 annual meeting of the Transportation Research Board, by P. Savolainen, Washington, DC.

73. Mannering, F., The effects of interstate speed limits on driving speeds: Some new evidence, presented at the 2007 annual meeting of the Transportation Research Board, Washington, DC.
74. Savolainen, P. and F. Mannering, Probabilistic models of motorcyclists' injury severities in single- and multi-vehicle crashes, presented at the 2007 annual meeting of the Transportation Research Board, by P. Savolainen, Washington, DC.
75. Gkritza, K., and F. Mannering, Mixed logit analysis of safety-belt use in single- and multi-occupant vehicles, presented at the 2008 annual meeting of the Transportation Research Board, by K. Gkritza, Washington DC.
76. Miller, L., D. Abraham and F. Mannering, Effectiveness of speed control measures on nighttime construction and maintenance projects: Some new evidence, presented at the 2008 annual meeting of the Transportation Research Board, by V. Valentin, Washington DC.
77. Mannering, F., Speed limits and safety: A statistical analysis of driver perceptions, presented at the 2008 annual meeting of the Transportation Research Board, Washington DC.
78. Malyshkina, N. and F. Mannering, Analysis of the effect of speed-limit increases on accident causation and injury severity, presented at the 2008 annual meeting of the Transportation Research Board, by F. Mannering, Washington DC.
79. Milton, J., V. Shankar and F. Mannering, Highway accident severities and the mixed logit model: An exploratory empirical analysis, presented at the 2008 annual meeting of the Transportation Research Board, by J. Milton, Washington DC.
80. Anastasopoulos, P., K. Gkritza, B. McCullough, F. Mannering and K.C. Sinha, Performance-based contracting for roadway maintenance: An exploratory empirical analysis, presented at 10th International Conference on Applications of Advanced Technologies in Transportation, Athens, Greece, May 2008.
81. Bhargava, A., P. Anastasopoulos, S. Labi, K.C. Sinha and F. Mannering, A simple model for predicting delay at actuated signalized intersections, presented at 10th International Conference on Applications of Advanced Technologies in Transportation, Athens, Greece, May 2008.
82. Gkritza, K., K.C. Sinha, S. Labi and F. Mannering, Economic development and highway project decision-making, presented at 10th International Conference on Applications of Advanced Technologies in Transportation, Athens, Greece, May 2008.
83. Bhargava, A., P. Anastasopoulos, S. Labi, K.C. Sinha and F. Mannering, An analysis of cost and time overruns of construction contracts using system equation methods, presented at 10th International Conference on Applications of Advanced Technologies in Transportation, Athens, Greece, May 2008.
84. Kim, J.-K., G. Ulfarsson, V. Shankar and F. Mannering, Pedestrian injury severity analysis with the mixed logit model, presented at the 2nd NORBIT Scientific Conference, Nordic Organisation for Behaviour in Traffic, Reykjavík, Iceland, August 2008.

85. Anastasopoulos, P. and F. Mannering, A note on modeling vehicle-accident frequencies with random-parameters count models, presented at the 2009 annual meeting of the Transportation Research Board, by P. Anastasopoulos, Washington DC.
86. Malyshkina, N., F. Mannering and A. Tarko, Markov switching negative binomial models: An application to vehicle accident frequencies, presented at the 2009 annual meeting of the Transportation Research Board, by N. Malyshkina, Washington DC.
87. Davis, R., K.C. Sinha and F. Mannering, Factors affecting willingness to pay for high-occupancy toll (HOT) lanes, presented at the 2009 annual meeting of the Transportation Research Board, by R. Davis, Washington DC.
88. Anastasopoulos, P., S. Labi, M. Karlaftis and F. Mannering, Exploring relationships between aggregate pavement performance, and surface geology, climate, and expenditure: An econometric analysis of state-level data, presented at the 2009 annual meeting of the Transportation Research Board, by P. Anastasopoulos, Washington DC.
89. Kim, J.-K., G. Ulfarsson, V. Shankar and F. Mannering, Unobserved heterogeneity and heteroskedasticity due to Age when modeling pedestrian injury severity in motor vehicle crashes, presented at the 2009 annual meeting of the Transportation Research Board, by G. Ulfarsson, Washington DC.
90. Washington, S., P. Congdon, M. Karlaftis and F. Mannering, The Bayesian multinomial logit: Theory and route choice example, presented at the 2009 annual meeting of the Transportation Research Board, by S. Washington, Washington DC.
91. Malyshkina, N., Mannering, F., Empirical assessment of the impact of highway design exceptions on the frequency and severity of vehicle accidents, presented at the 2010 annual meeting of the Transportation Research Board, by A. Morgan, Washington DC.
92. Van Boxel, D., Sinha, K.C., Bullock, D., Mannering, F., An exploratory study of vehicle class headway ratios as passenger car equivalence values using three-stage least squares estimation, presented at the 2010 annual meeting of the Transportation Research Board, by D. Van Boxel, Washington DC.
93. Anastasopoulos, P., Mannering, F., Tarko, A., A note on accident-injury severity analysis with the random parameters logit model, presented at the 2011 annual meeting of the Transportation Research Board, by P. Anastasopoulos, Washington DC.
94. Hernandez, S., Peeta, S., Mannering, F., An exploratory analysis of the propensity for freight-carrier collaboration, presented at the at the 2011 annual meeting of the Transportation Research Board, Washington DC.
95. Martchouk, M., Mannering, F., Bullock, D., Analysis of freeway travel time variability using Bluetooth detection, presented at the 2011 annual meeting of the Transportation Research Board, by M. Martchouk, Washington DC.
96. Anastasopoulos, P., Mannering, F., Pavement deterioration modeling: Accounting for heterogeneity and simultaneous relationships, presented at the 2011 annual meeting of the Transportation Research Forum, by M. Islam, Long Beach, CA.
97. Anastasopoulos, P., Mannering, F., Survival analysis of pavement service lives with limited data: A random parameters hazard-based duration framework, presented at the

- 2011 annual meeting of the Transportation Research Forum, by M. Islam, Long Beach, CA.
98. Anastasopoulos, P., Haddock, J., Karlaftis, M., Mannering, F., An analysis of urban travel times: A random parameters hazard-based approach, presented at the 2012 annual meeting of the Transportation Research Board, by P. Anastasopoulos, Washington DC.
 99. Anastasopoulos, P., Mannering, F., Shankar, V., Haddock, J., A study of factors affecting highway accident rates using the random-parameters tobit model, presented at the 2012 annual meeting of the Transportation Research Board, by P. Anastasopoulos, Washington DC.
 100. Anastasopoulos, P., Karlaftis, M., Haddock, J., Mannering, F., An analysis of household automobile and motorcycle ownership with a random parameters bivariate ordered probit model, presented at the 2012 annual meeting of the Transportation Research Board, by P. Anastasopoulos, Washington DC.
 101. Anastasopoulos, P., Mannering, F., An analysis of pavement overlay and replacement performance using random-parameters hazard-based duration models, presented at the 2014 annual meeting of the Transportation Research Board, by P. Anastasopoulos, Washington DC.
 102. Guo, Y., Peeta, S., Mannering, F., Rail-truck multimodal freight collaboration: A statistical analysis freight shipper perspectives, presented at the 2015 annual meeting of the Transportation Research Board, by Y. Guo, Washington DC.
 103. Sarwar, Md. T., Anastasopoulos, P. Ch., Ukkusuri, S., Murray-Tuite, P., Mannering, F., A statistical analysis of the dynamics of household hurricane-evacuation decisions, presented at the 2016 annual meeting of the Transportation Research Board, by Md. Sarwar, Washington DC.
 104. Menon, N., Zhang, Y., Pinjari, A., Mannering, F., A statistical analysis of consumers' perceptions towards automated vehicles and their intended adoption, to be presented at the 2019 annual meeting of the Transportation Research Board, by N. Menon, Washington DC.

Invited Talks

1. Econometric analysis of household vehicle ownership and utilization. Ohio State University, Department of Civil Engineering, 1983.
2. Econometric analysis of household vehicle ownership and utilization. Pennsylvania State University, Department of Civil Engineering, 1983.
3. Dynamic models of household vehicle ownership and utilization. University of Texas at Austin, Department of Civil Engineering, 1984.
4. Dynamic models of household vehicle ownership and utilization. General Motors Corporation, Warren, MI, 1985.
5. Vehicle ownership and utilization modeling. University of California, Davis, Department of Civil Engineering, 1985.

6. A compensating variation approach to traffic signal timing. University of Washington, Seattle, 1986.
7. Assessing the impacts of audio home-copying restrictions. Office of Technology Assessment, U.S. Congress, Washington, DC, 1989.
8. Brand loyalty and the decline of American automobile firms. Brookings Institution, Washington, DC, 1990.
9. Brand loyalty and the decline of American automobile firms. University of Washington, Department of Business Administration, 1992.
10. Consumer demand for automobile air bags. University of California, Davis, Institute of Transportation Studies, 1992.
11. Brand loyalty and the decline of American automobile firms. University of California, Berkeley, Department of Civil Engineering, 1992.
12. Male/female driver characteristics and accident risk: some new evidence. University of California, Davis, Institute of Transportation Studies, 1993.
13. Automobile air bags in the 1990's: Market failure or market efficiency? University of California, Irvine, Institute of Transportation Studies, 1994.
14. Use of hazard-based models in accident analysis. Transportation Research Board, Washington, DC, 1994.
15. Safety evaluation of intelligent transportation systems. University of California, Davis, Institute of Transportation Studies, 1995.
16. Use of hazard-based models in civil engineering. University of Kentucky, Department of Civil Engineering, 1995.
17. Civil engineering education, research, and departmental strategies. University of South Florida, Department of Civil Engineering, 1996.
18. Civil engineering education, research, and departmental strategies. Texas Tech University, Department of Civil Engineering, 1996.
19. Civil engineering education, research, and departmental strategies. University of New Mexico, Department of Civil Engineering, 1997.
20. Analysis of the weekend closures of I-405. Asphalt Paving Association of Washington, Annual Meeting, Seattle, WA, 1997 (with P. Dunston).
21. Statistical techniques for assessing the safety impacts of rural intelligent transportation systems projects. Transportation Research Board, Washington, DC, 1998.
22. An exploratory analysis of the growth and long-term impacts of automobile leasing. University of California, Berkeley, Department of Civil Engineering, 1998.
23. An exploratory analysis of the growth and long-term impacts of automobile leasing. University of California, Davis, Institute of Transportation Studies, 1998.

24. An exploratory analysis of the growth and long-term impacts of automobile leasing. University of British Columbia, Centre for Transportation Studies, 2000.
25. Future of engineering education. University of South Florida, College of Engineering, 2000.
26. Hazard-based duration models as an analysis tool in civil engineering. Purdue University, School of Civil Engineering, 2000.
27. The effects of airbags on automobile safety: an exploration of the offset hypothesis using disaggregate data. Transportation Seminar Series, Northwestern University, 2003.
28. Consumers' new-vehicle acquisitions: the rise and fall of the leasing alternative. Department of Economics, Purdue University, 2004.
29. An analysis of drivers' offsetting response to vehicle safety features. Department of Civil Engineering, Washington University, St. Louis, 2005.
30. The automotive industry and the dynamics of consumer demand: The case of automobile leasing. Transportation Seminar Series, Northwestern University, 2006.
31. The evolution of automobile leasing in the U.S.: An econometric analysis. Research Colloquium, Department of Statistics, Purdue University, 2006.
32. Analysis of drivers' risk compensation response to vehicle safety features. Department of Civil and Environmental Engineering, University of Illinois, 2007.
33. Causality and selectivity in data analysis: An example to the effectiveness of vehicle safety features. University of Central Florida, 2009.
34. International practices in safety research. Ministry of Transport, Kingdom of Saudi Arabia, Riyadh, 2010.
35. The uncertainties of driver responses to vehicle safety features. Hong Kong University of Science and Technology, Hong Kong, October 2012.
36. Analysis of highway-safety data: Current and future methodological challenges. Transportation Seminar Series, Northwestern University, May 2014.
37. Emerging analytic methods for addressing complex data issues: The case of vehicle-crash data. Illinois Institute of Technology, November 2014.
38. Temporal instability and the analysis of highway accident data. Texas A&M University, October 2019.

Journal Articles Serving as Editor-in-Chief, Guest Editor or Associate Editor

Journal	Number
As Editor-in Chief, <i>Transportation Research Part B</i>	2,663
As Editor-in Chief, <i>Analytic Methods in Accident Research</i>	480
As Guest/Associate Editor, <i>Transportation Research Parts A, B and C</i>	141

Referee work on Promotion Reviews, Books and Proposals

Source	Number
Promotion and tenure reviews of faculty at other Universities	144
MIT Book Review	1
NSF Proposals	5
University Transportation Center Proposals	28

Referee Work for Journals

Journal	Number
<i>Accident Analysis and Prevention</i>	429
<i>Transportation Research Record</i>	258
<i>Transportation Research</i> (all Parts)	107
<i>Journal of Transportation Engineering</i>	53
<i>Transportation</i>	33
<i>Journal of Transport Economics and Policy</i>	18
<i>Transportation Science</i>	8
<i>Civil Engineering Systems</i>	8
<i>The Energy Journal</i>	5
<i>Transport Reviews</i>	3
<i>Journal of Policy Analysis and Management</i>	2
<i>Journal of Infrastructure Systems</i>	2
<i>International Symposium on Transportation and Traffic Theory</i>	4
<i>Journal of Applied Research in Higher Education</i>	2
<i>Journal of Transportation and Statistics</i>	2
<i>Computers and Industrial Engineering</i>	1
<i>Safety Science</i>	1
<i>Journal of Crash Prevention and Injury Control</i>	1
<i>Review of Economics and Statistics</i>	1
<i>Journal of Engineering Education</i>	1
<i>Journal of Industrial Economics</i>	1
<i>Journal of Cold Regions Engineering</i>	1
<i>Economic Journal</i>	1
<i>Social Behavior and Personality</i>	1
<i>Management Science</i>	1

Service/Administrative Activities

Pennsylvania State University

1983-84	Department of Civil Engineering Cooperative Work-Study Program Committee
1983-84	Department of Civil Engineering Ad Hoc Committee to Review the Transportation Program
1983-86	Department of Civil Engineering Curriculum Review Committee

1984-85	Department of Civil Engineering Administrative Advisory Committee
1985-86	College Engineering Graduate Research Advisory Committee

University of Washington

1987-88	Department of Civil Engineering Undergraduate Program Advisor
1987-88	Department of Civil Engineering Curriculum Review Committee
1987-88	Department of Civil Engineering Computer Committee
1987-88	Department of Civil Engineering Student Affairs/Scholarship Committee
1987-92	Department of Civil Engineering Undergraduate Education/Admissions
1994-95	Committee
1988-89	Chair, Department of Civil Engineering Ph.D. Qualifying Exam Review Committee
1988-92	Graduate Program Advisor, Department of Civil Engineering
1996-98	Transportation, Surveying, and Construction
1989-90	Chair, Department of Civil Engineering Student Affairs/Scholarship Committee
1990	Chair, Department of Civil Engineering Faculty Merit Review Committee
1990-91	Department of Civil Engineering Geographic Information Systems Faculty Search Committee
1990-92	Director, Department of Civil Engineering, Transportation, Surveying, and Construction Program
1993-2001	Director, Civil Engineering Professional Engineering Exam Review Course
1994-95	Department of Civil Engineering ABET Accreditation Committee (Capstone Design Courses)
1994	Co-Director, Department of Civil Engineering Open House
1995-96	College of Engineering Promotion and Tenure Committee
1996	Department of Civil Engineering Administrator Search Committee
1996	Chair, Department of Civil Engineering Junior-Level Transportation Course Review Committee
1996	Chair, Department of Civil Engineering Ph.D. Program Review Committee
1996-97	Chair, College of Engineering Promotion and Tenure Committee
1997-2001	Chair, Department of Civil and Environmental Engineering
1997	Technical Communication Program Extended Committee for Promotion and Tenure
1997-98	Department Chair Review Committee for Computer Science and Engineering

- 2000 Chair, Search Committee for Computational Mechanics Faculty Position, Department of Civil and Environmental Engineering
- 2000-01 Educational Assessment Committee, Department of Civil and Environmental Engineering
- 2000 Review Committee for the John M. Fluke Distinguished Chair in Manufacturing (Industrial Engineering)
- 2000 Search Committee for Director of Human Resources, College of Engineering
- 2000-01 Search Committee for Program Director, Department of Industrial Engineering, College of Engineering
- 2000-01 Search Committee for Chair, Department of Computer Science and Engineering, College of Engineering

Purdue University

- 2001-05 Head, School of Civil Engineering
- 2001-05 Engineering Area Primary Committee, committee for promotion and tenure cases in the College of Engineering
- 2001-05 Engineering Leadership Team, College of Engineering
- 2001-05 Vice Chairman, Joint Transportation Research Program Advisory Council
- 2001-05 Advisory Council Member, Institute for Safe, Quiet, Durable Highways
- 2001-05 Advisory Council Member, Indiana Local Technical Assistance Program
- 2002-04 Co-Chair, Search Committee for the Intelligent Infrastructure Systems Faculty Cluster Hires
- 2003-04 Task Committee on Faculty Licensure, American Society of Civil Engineers
- 2004-05 Committee on Financial Affairs, College of Engineering
- 2004-05 Committee on Branding, committee developing brand-marketing strategy for Purdue engineering, College of Engineering
- 2004-06 Search Committee for the Construction Engineering and Management Division Director
- 2005-06 Committee on Faculty Relations, College of Engineering
- 2005-06 Chair, Search Committee for the Burke Professorship in the School of Civil Engineering
- 2005-06 Environmental Engineering Program – Implementation Committee, College of Engineering
- 2005-06 Search Committee for the Intelligent Infrastructure Systems Faculty Cluster Hires
- 2006-08 Committee on Faculty Affairs, College of Engineering
- 2006-09 Graduate Coordinator, Transportation Group
- 2006-15 Associate Director for Research, Center for Road Safety

2006	Promotion and Tenure Committee, School of Civil Engineering
2007	Chair, Committee to Propose Full-Professor Evaluation Procedures, School of Civil Engineering
2009-11	Faculty Awards Committee, College of Engineering
2009-12	Dean's Faculty Advisory Committee, College of Engineering
2009-15	Engineering Named Professorships Committee, College of Engineering
2010	Chair, Curtis Professorship Committee, School of Civil Engineering
2012-13	Hochema Professorship Search Committee, School of Civil Engineering
2014-15	Engineering Area Primary Committee, committee for promotion and tenure cases in the College of Engineering

University of South Florida

2016-present	Associate Dean for Research, College of Engineering
2019-present	University Research Advisory Committee

Other Service Activities

1. Current professional memberships

Transportation Research Board
 Committee on Motorcycles and Mopeds (reviewer)
 Committee on Travel Demand Forecasting (reviewer)
 Committee on Traveler Behavior and Values (reviewer)
 Committee on Traffic Records and Accident Analysis (reviewer)
 American Society of Civil Engineers
 American Society for Engineering Education
 Chi Epsilon Honor Society

2. Consulting

Traffic analysis for Proctor and Gamble Corporation (March-May 1986)
 Freight transportation demand model analysis, Cambridge Systematics (December 1987)
 Transportation energy and emissions modeling system panel of experts, U.S. Department of Energy (January 1988)
 Impact of audio copying regulations, U.S. Congress, Office of Technology Assessment (June 1988 - December 1989)
 Intelligent vehicle highway systems, UMA Engineering (February-March 1993)

3. Continuing education

University of Washington professional engineering exam civil engineering refresher course, taught 2 times per year, instructor 1989-1993.
 University of Washington professional engineering exam civil engineering refresher course, taught 2 times per year, instructor 1993-2000, Course Director and instructor 1993-2000.

Queensland University of Technology, short course “Transport Data Analysis and Modeling Methodologies”, Brisbane, QLD, Australia, November 2013.

Purdue University fundamentals of engineering exam civil engineering review course, 2014.

Queensland University of Technology, short course “Transport Data Analysis and Modeling Methodologies”, Brisbane, QLD, Australia, June 2015.

4. Service to student organizations

1990-92	Faculty advisor for the Student Chapter of Institute of Transportation Engineers, University of Washington
1993-2000	Faculty advisor for the Student Chapter of American Society of Civil Engineers, University of Washington
2002-05	Faculty sponsor for Purdue University’s Weezer Fan Club.
2003-06	Faculty sponsor for Purdue University’s Metal Club.

Teaching Ability and Effectiveness

1. Courses taught (all are 3-credit courses – key to forthcoming tables)

Course Number	Title	Times taught
Pennsylvania State University – Semester System (1983-1986)		
CE 221	Introduction to Transportation Engineering	5
CE 521	Transportation Analysis	3
CE 523	Urban Transportation Planning	3
University of Washington – Quarter System (1987-2001)		
CIVE/CEE 320	Transportation Engineering I	15
CETS 412	Traffic Flow Theory	4
CETS/CIVE 411	Highway Engineering - Geometric Design	9
CETS 571	Analytic Methods in Transportation	9
CETS 572	Transportation Data Collection and Analysis	4
CETS 574	Advanced Transportation Demand Modeling	3
CETS 599	Analytic Methods in Transportation II	2
University of California, Davis – Quarter System (1993)		
ECI 162	Transportation Systems Design	1
ECI 289	Analytic Methods in Transportation	1
Purdue University – Semester System (2001-2015)		
CE 361	Transportation Engineering	10
CE 697N/CE 614	Statistical and Econometric Methods I	9
CE 697M/CE 615	Statistical and Econometric Methods II	7
University of South Florida – Semester System (2015-present)		
CGN 6933.902/.010/ TTE 6307	Statistical and Econometric Methods	5
CGN 6933.901/ TTE 6501	Statistical and Econometric Methods II	4

2. Student ratings (see titles of courses in section 1 above)

(Pennsylvania State University)

From Autumn semester 1983 to spring semester 1985 all students in the classes listed below were asked to respond to the question "How does this instructor rank with others you have had at this university?"; a scale of 1-7 was used [1 = unsatisfactory, 2 = below average, 3 = average, 4 = above average, 5 = very good, 6 = excellent, 7 = exceptional (top 2%)].

Course ^a	Semester	Number of Students	Average Rating
CE 221.1	A83	36	5.6
CE 221.2	A83	43	5.6
CE 523.1	Sp84	7	6.1
CE 521.1	A84	6	6.2
CE 221.2	Sp85	78	5.5
CE 523.1	Sp85	7	6.0

^a See titles of courses in section 1 (Courses Taught) above.

From the spring semester 1985 and later, all students in the classes listed below were asked the same question; "How does this instructor rank with others you have had at this university?" but a scale of 1 – 5 was used [1 = one of the poorest, 3 = satisfactory or average, 5 = one of the best].

Course ^a	Semester	Number of Students	Instructor's Rating	Department Average	College Average
CE 221.2	Sp85	78	4.78	3.73	3.78
CE 523.1	Sp85	7	4.86	3.73	3.78
CE 221.1	A85	63	4.52	3.74	3.62
CE 521.1	A85	7	4.52	3.74	3.62
CE 523.1	Sp86	5	4.72	3.63	3.66

^a See titles of courses in section 1 (Courses Taught) above.

(University of Washington)

All students were asked to rate the courses below on a scale of 0-5 [0 = very poor, 1 = poor, 2 = fair, 3 = good, 4 = very good, 5 = excellent]. The first four items on the survey were; Item 1, The course as a whole was:, Item 2, The course content was:, Item 3, The instructor's contribution to the course was:, and Item 4, The instructor's effectiveness in teaching the subject matter was:.

Course ^a	Quarter	Number of Students	Average of Items 1-4 ^b	Decile Rank ^c
CIVE 320	W87	62	4.32	8 ●●●●●●●
CETS 412	Sp87	20	4.04	7 ●●●●●●
CETS 572	Sp87	9	4.43	9 ●●●●●●●
CIVE 320	A87	47	4.35	9 ●●●●●●●
CIVE 320	W88	65	4.05	6 ●●●●●●
CETS 411	W88	35	4.29	8 ●●●●●●●

(Continued)

Course ^a	Quarter	Number of Students	Average of Items 1-4 ^b	Decile Rank ^c
CETS 412	Sp88	25	4.18	7 ●●●●●●
CETS 572	Sp88	16	3.71	5 ●●●●●
CIVE 320	W89	58	3.86	5 ●●●●●
CETS 411	W89	33	4.04	7 ●●●●●●
CETS 412	Sp89	30	3.96	6 ●●●●●●
CETS 572	Sp89	14	3.83	5 ●●●●●
CIVE 320	W90	61	3.80	5 ●●●●●
CETS 411	W90	35	3.83	5 ●●●●●
CETS 412	Sp90	24	3.89	5 ●●●●●
CETS 572	Sp90	12	4.20	8 ●●●●●●●
CIVE 320	W91	68	4.14	8 ●●●●●●●
CETS 411	W91	51	3.86	5 ●●●●●
CETS 571	Sp91	10	4.36	9 ●●●●●●●●
CETS 574	Sp91	14	4.21	8 ●●●●●●●
CIVE 320	W92	94	4.36	9 ●●●●●●●●
CETS 411	W92	56	4.53	9 ●●●●●●●●
CETS 571	Sp92	10	N/A	N/A
CETS 574	Sp92	19	N/A	N/A
CIVE 320	W94	75	4.36	9 ●●●●●●●●
CIVE 411	W94	66	4.33	9 ●●●●●●●●
CETS 571	Sp97	14	4.74	9 ●●●●●●●●
CIVE 320	W99	50	N/A	^e
CETS 571	Sp94	12	4.15	8 ●●●●●●●
CETS 574	Sp94	18	4.27	8 ●●●●●●●
CETS 599	A94	11	4.56	9 ●●●●●●●●
CIVE 320	W95	83	4.33	9 ●●●●●●●●
CIVE 411	W95	57	4.32	9 ●●●●●●●●
CETS 571	Sp95	16	3.88	6 ●●●●●●
CETS 599	A95	16	4.1	7 ●●●●●●●
CIVE 320	W96	67	4.5	9 ●●●●●●●●
CIVE 411	W96	75	4.4	8 ●●●●●●●●
CETS 571	Sp96	9	4.4	8 ●●●●●●●
CIVE 320	A96	57	4.5	9 ●●●●●●●●
CIVE 320	W97	56	N/A	N/A
CIVE 411	W97	52	N/A	N/A
CIVE 320	W98	55	4.32	8 ●●●●●●●●
CETS 571	Sp98	14	4.02	6 ●●●●●●
CETS 571	Sp99	15	4.13 (4.15) ^d	^e
CETS 571	Sp00	16	4.33 (4.36) ^d	^e
CEE 320	W01	63	4.06 (4.28) ^d	^e

^a See titles of courses in section 1 (Courses Taught) above.

^b Starting in the Autumn quarter of 1995, item scores were reported as a median (to two decimals from Spring 1997 on), all item scores before that time were reported as a mean.

^c Decile ranks range from 0 (lowest) to 9 (highest) in the College of Engineering. The 0 decile indicates that the instructor's score is in the lowest 10 percent in the College. A decile rank of 5 places the instructor's score above 50% and below 60% of the scores in

the College. A score of 9 places the instructor's score in the top 10% of all scores in the College.

^d The median in parentheses is the adjusted median. Using multiple regression, the Office of Educational Assessment adjusts the median to its expected value if the class was average in terms of expected student grades, class size, and proportion of students taking the class in their major, minor, or as an elective.

^e Starting with the 1998-99 academic year, decile ranks were no longer provided by the Office of Educational Assessment.

(Purdue University)

All students were asked to rate the courses below on a scale of 1-5 [1 = very poor, 2 = poor, 3 = fair, 4 = good, 5 = excellent]. The two university core ratings are: Course Rating: "Overall I would rate this instructor as: (on the above scale)"; Instructor Rating: "Overall I would rate this course as: (on the above scale)". Median scores for these questions are presented below.

Course ^a	Semester	Number of Students	Course Rating	Instructor Rating
CE 697N	Sp03	19	4.7	4.8
CE 697N	Sp05	32	4.2	4.7
CE 697N	F05	18	4.6	4.8
CE 361	Sp06	91	4.1	4.7
CE 697N	F06	16	4.9	4.9
CE 697M	F06	8	4.8	4.9
CE 361	Sp07	78	4.5	4.8
CE 697M	Sp07	9	4.9	4.9
CE 697N	F07	21	4.7	4.8
CE 361	Sp08	85	4.5	4.9
CE 697M	Sp08	8	5.0	5.0
CE 697N	F08	23	4.7	4.8
CE 361	Sp09	101	4.4	4.8
CE 697M	Sp09	14	4.6	4.8
CE 614	F09	21	4.6	4.7
CE 361	Sp10	135	4.6	4.9
CE 615	F10	11	5.0	5.0
CE 361	SP11	104	4.8	4.9
CE 614	F11	43	4.8	4.9
CE 361	SP12	136	4.6	4.9
CE 615	F12	24	4.6	4.9
CE 361	SP13	75	4.8	5.0
CE 614	F13	48	4.7	4.9
CE 361	SP14	93	4.8	4.9
CE 615	SP15	22	4.9	5.0
CE 361	SP15	78	4.7	4.9

^a See titles of courses in section 1 (Courses Taught) above.

(University of South Florida)

All students were asked to rate the instructor's performance in the courses below on a scale of 1-5 [1 = poor, 2 = fair, 3 = good, 4 = very good, 5 = excellent] in 8 categories. The mean overall rating of the instructor is presented below.

Course ^a	Semester	Number of Students	Mean Overall Rating of the Instructor
CGN 6933.902	F15	28	4.8
CGN 6933.901	Sp16	16	5.0
CGN 6933.010	F16	25	4.6
CGN 6933.901	Sp17	11	5.0
CGN 6933.010	F17	19	4.8
CGN 6933.901	Sp18	12	4.9
TTE6307	F18	29	4.7
TTE6501	SP19	14	4.6
TTE6307	F19	22	N/A

^a See titles of courses in section 1 (Courses Taught) above.

Student Advising Summary

Academic Year	Undergraduate	Graduate (Committee Chair)
1983-84 (Penn State)	4	1
1984-85 (Penn State)	8	1
1985-86 (Penn State)	19	3
1986-87 (Penn State)	14	2
1987-88 (Washington)	8	3
1988-89 (Washington)	10	4
1989-90 (Washington)	12	4
1990-91 (Washington)	14	4
1991-92 (Washington)	20	7
1992-93 (Sabbatical – UC Davis)	N/A	4
1993-94 (Washington)	15	7
1994-95 (Washington)	11	10
1995-96 (Washington)	12	11
1996-97 (Washington)	16	12
1997-98 (Washington)	6	12
1998-99 (Washington)	6	5
1999-00 (Washington)	5	5
2000-01 (Washington)	4	4
2001-02 (Purdue)	N/A	2
2002-03 (Purdue)	N/A	2
2003-04 (Purdue)	N/A	2
2004-05 (Purdue)	N/A	4
2005-06 (Purdue)	3	5
2006-07 (Purdue)	5	3
2007-08 (Purdue)	8	4
2008-09 (Purdue)	7	5

(Continued)

Academic Year	Undergraduate	Graduate (Committee Chair)
2009-10 (Purdue)	8	3
2010-11 (Purdue)	11	1
2011-12 (Purdue)	20	1
2012-13 (Purdue)	17	1
2013-14 (Purdue)	19	1
2014-15 (Purdue)	21	2
2015-16 (South Florida)	N/A	2
2016-17 (South Florida)	N/A	3
2017-18 (South Florida)	N/A	4
2018-19 (South Florida)	N/A	4
2019-20 (South Florida)	N/A	3

Graduate Student Advising – Doctoral students supervised

1. Sameer Abu-Eisheh, March 1987 (PhD, Pennsylvania State University)
Professor, An-Najah National University, Nablus, Palestinian Territories; past Dean of Engineering at An-Najah National University and former Planning Minister of the Palestinian National Authority.
2. Mohammad Hamed, June 1990 (PhD, University of Washington)
Professor of Civil and Transportation Engineering, German Jordanian University, Amman, Jordan; former Minister of Energy and Mineral Resources (Jordanian Prime Minister Abdullah Ensour's Cabinet); previously a Professor at the Jordan University of Science and Technology, Irbid, Jordan.
3. Soon-Gwan Kim, July 1994 (PhD, University of Washington)
Senior Resaerch Fellow, Seoul Development Institute, Seoul, South Korea.
4. Venkataraman Shankar, June 1997 (PhD, University of Washington)
Professor and Chair, Texas Tech University, Lubbock, TX; previously a Professor at the Pennsylvania State University, University Park, PA and an Assistant Professor at the University of Washington, Seattle, WA.
5. Doohee Nam, June 1997 (PhD, University of Washington)
Professor, Department of Information Systems Engineering, Hansung University, South Korea.
6. William Starkey, December 1997 (PhD, University of Washington)
Assistant Vice President Debt, Treasury, and Risk Management at Boston University; previously Senior Associate Treasurer at the University of Washington; Vice President, Public Finance, Seattle Northwest Securities Corporation, Seattle, WA.
7. Li-Yen Chang, December 1997 (PhD, University of Washington)
Associate Professor, Graduate Institute of Marketing and Logistics/Transportation, National Chiayi University, Taiwan.

8. Linda Ng Boyle, August 1998 (PhD, University of Washington)
Professor and Chair, Department of Industrial and Systems Engineering, University of Washington, Seattle, WA; previously an Associate Professor at the University of Iowa, Iowa City, IA.
9. Jodi Carson, December 1998 (PhD, University of Washington)
STEM Program Manager and Instructor, Olympic College, Bremerton, WA; previously an Associate Professor at Montana State University, Bozeman, MT.
(co-advised with J. Mahoney)
10. Jinsun Lee, June 2000 (PhD, University of Washington)
Faculty, Department of Railroad Business and Management, Woosong University, Daejeon, South Korea.
11. Gudmundur Ulfarsson, June 2001 (PhD, University of Washington)
Professor and Head of the Faculty of Civil and Environmental Engineering, University of Iceland, Reykjavik, Iceland; previously an Assistant Professor at Washington University, St. Louis, MO.
12. Kevan Shafizadeh, June 2002 (PhD, University of Washington)
Associate Dean College of Engineering and Professor, Department of Civil Engineering, California State University, Sacramento, CA.
(co-advised with S. Rutherford)
13. Bonnie Savage, May 2003 (PhD, Purdue University)
Solutions Architect for Business Transformations, Science Applications International Corporation (SAIC), Virginia Beach, VA.
14. Samantha Islam, December 2005 (PhD, Purdue University)
Associate Professor, University of South Alabama, Mobile, AL.
15. Peter Savolainen, August 2006 (PhD, Purdue University)
MSU Foundation Professor, Michigan State University, East Lansing, MI; previously an Associate Professor at Iowa State University, Ames, IA.
(Co-advised with A. Tarko)
16. Konstantina (Nadia) Gkritza, December 2006 (PhD, Purdue University)
Professor, Purdue University, West Lafayette, IN; previously an Associate Professor at Iowa State University, Ames, IA.
(Co-advised with K. C. Sinha)
17. John Milton, December 2006 (PhD, University of Washington)
Director of Enterprise Risk and Safety Management, Washington State Department of Transportation, Olympia, WA.
(Co-advised with V. Shankar)
18. Nataliya Malyshkina, December 2008 (PhD Purdue University)
Previously post-doctoral researcher, University of California, Davis.
(Co-advised with A. Tarko)
19. Panagiotis Anastasopoulos, May 2009 (PhD, Purdue University)
Associate Professor and Stephen E. Still Chair of Transportation Engineering, State University of New York at Buffalo, Buffalo, NY.

20. Maria Martchouk, December 2009 (PhD, Purdue University)
Consultant, Cambridge Systematics, Oakland, CA.
21. Abigail Morgan, December 2010 (PhD, Purdue University)
Senior Engineer, Kittelson and Associates, Fort Lauderdale, FL; previously Safety Standards Engineer, Office of Crash Avoidance Standards, National Highway Traffic Safety Administration, Washington DC.
22. Yingge Xiong, May 2015 (PhD, Purdue University)
Quantitative strategist, Goldman Sachs, New York, NY.
(Co-advised with J. Fricker)
23. Natalia Barbour, May 2019 (PhD, University of South Florida)
Post-doctoral Researcher, Massachusetts Institute of Technology, Cambridge, MA.
(Co-advised with Y. Zhang)
24. Nawaf Alnawmasi, Current student (University of South Florida)
25. Suryaprasanna Kumar Balusu, Current student (University of South Florida)
(Co-advised with A. Pinjari)
26. Asim Alogaili, Current student (University of South Florida)

Graduate Student Advising – Masters thesis students supervised

Student	University	Graduation Date
1. Jamal Itani	Pennsylvania State University	Dec. 1985
2. Carolyn Gonot	Pennsylvania State University	Dec. 1986
3. Abdulkader Itani	Pennsylvania State University	Mar. 1987
4. Audur Arnadottir	University of Washington	June 1988
5. Abdolhossein Barahimi	University of Washington	June 1988
6. Dan Garrison	University of Washington	Dec. 1989
7. Wook Kang	University of Washington	June 1990
8. Brad Sebranke	University of Washington	June 1990
9. Ross Gravette	University of Washington	June 1990
10. Yutaka Miyaji	University of Washington	Aug. 1990
11. Cindy Hirsch	University of Washington	Aug. 1990
12. Felix Kwakwa	University of Washington	Dec. 1990
13. Xiaofang Lin	University of Washington	Dec. 1990
14. Jodi Koehne	University of Washington	June 1991
15. Morgan Balogh	University of Washington	Dec. 1991
16. Ted Paselk	University of Washington	Dec. 1991
17. Young-Long Wu	University of Washington	June 1992
18. Jennene Ring	University of Washington	Dec. 1992
19. Michael Shine	University of Washington	Dec. 1992

(Continued)

Student	University	Graduation Date
20. Scott Zeller	University of Washington	Dec. 1992
21. Leroy Demery	University of Washington	Dec. 1992
22. Michael Louie	University of Washington	Dec. 1992
23. Pam Callanan	University of Washington	June 1993
24. April Cutting	University of Washington	June 1993
25. Mark Poch	University of Washington	June 1994
26. Duke Do	University of Washington	Aug. 1994
27. Ralph Wessels	University of Washington	Aug. 1994
28. James Swantz	University of Washington	Dec. 1994
29. David Standahl	University of Washington	Dec. 1994
30. Larry Larson	University of Washington	Aug. 1995
31. Mark Morse	University of Washington	Aug. 1995
32. John Milton	University of Washington	Dec. 1995
33. Carl Warren	University of Washington	June 1996
34. Irene Argue	University of Washington	June 1996
35. Kaori Fujisawa	University of Washington	June 1996
36. Amity Trowbridge	University of Washington	Aug. 1996
37. Lawrence Gwan	University of Washington	June 1997
38. Jennifer Nee	University of Washington	June 1997
39. Jospheh Seet	University of Washington	June 1997
40. Gudmundur Ulfarsson	University of Washington	Aug. 1997
41. Manual Abarca	University of Washington	Dec. 1997
42. Ying-Yu Chuang	University of Washington	Mar. 1999
43. Nataliya Malyshkina	Purdue University	Dec. 2006
44. Tatok Raharjo	University of South Florida	Aug. 2016
45. Divyakant Tahlyan	University of South Florida	Mar. 2018

Graduate Student Advising – Membership on graduate degree committees

(Pennsylvania State University)

Doctoral committee

G. Chu Te

M.S. committees

F. DeLuca, K. Kowado, G. Lebo, O. Salgado, T. Ozbeki, I. Yiakoumis, J. Cunningham, M.Eng, S. Devine, M. Eng, M. Hamouda, R. Hudzinski, R. Moreau, S. Narain, Y. Shin, J. Ward

(University of Washington)

Doctoral committees

H. N. Janarthanan, B. Oshinowo, T.-C. Kuo, H.-C. Chen, R. Cihan, G. Davis, N. Sorenson, R. Krishnasamy, Y. Ding, Y. Kim, S. Hong, Y. Xiong, J. Farbarik, D. Niemeier, E. McCormack, J. Gambatese, K. Ahmed, C. Hunter, S. Washburn, A. Thatte, C. Hu

M.S. committees

J. Squires, J. Bender, K. Ng, G. Kirkemo, R. Mar, G. Rusch, B. Yazici, J.-B. Chang, C. Wheeler, T. Rickman, A. Ifie, R. Spillar, R. Kinchen, L. Blain, M. Schroeder, S. Hong, R. Lewis, J. Michel, M. Babla, J. Davis, W. Kang, J. Zhu, D. Nelson, M. Morris-Lent, E. Jacobson, E. Folke, J. Nisbet, R. Oswald, M. Gabel, M. Mitchell, G. Farnsworth, L. McKinley, S. Badgett, L. Ng, J. Silva, D. Lee, A. Fairweather, J. Chae, B. Sweet, R. Hoel, K. Westby, K. Semple, Y. Wong, T. Reed, P. Mazurek, S. Gygi, H. Li, J. Hohmann, M. Rice, B. Newman, K. Chang, S. MacLachlan, M. Baker, S. Queen, B. Wallace, A. Eckstein, J. McCulloch, K. Morley, D. McIntosh, J. Shickman

(Purdue University)**Doctoral committees**

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