

Asad J. Khattak, Ph.D.

Professor of Transportation & Director, Carolina Transportation Program
Department of City and Regional Planning
CB 3140 New East Bldg., University of North Carolina
Chapel Hill, NC 27599-3140
E: khattak@email.unc.edu T: (919) 962-4760

Curriculum Vitae, December 2005

Dr. Asad J. Khattak is Professor of Transportation at the Department of City and Regional Planning, University of North Carolina at Chapel Hill, where he teaches graduate courses and conducts research in transportation. He has developed and now directs the Carolina Transportation Program. Through the Program, Dr. Khattak has conducted research on various types of innovations related to (a) the impact of technology, particularly intelligent transportation systems, on traveler behavior and transportation network performance, (b) a new transportation planning method for intelligent transportation systems, (c) availability and use of advanced public transportation systems, (d) transportation safety and (e) travel behavior impacts of neo-traditional developments.

Prior to joining University of North Carolina, Dr. Khattak actively participated in developing and implementing research projects for the Advanced Transportation Management and Information Systems group at the California PATH Program, University of California at Berkeley. He received his Masters and Ph.D. degrees in Civil Engineering from Northwestern University in 1988 and 1991, respectively. He has worked at University of Oxford in England, University of California at Berkeley, and the French National Institute for Transport and Safety Research, known as INRETS.

Dr. Khattak has more than 14 years of research experience and 10 years of teaching experience in the transportation field, after completing his Ph.D. As an indication of national recognition, a recent national survey of 84 US planning schools and 856 planning faculty members ranked him 4th in terms of faculty with the greatest number of publications.¹ He has authored 55 scholarly journal articles and 42 technical reports. He has presented his research work at more than 36 international conferences. Dr. Khattak has completed 28 sponsored research and education projects totaling \$2.8 million as principal or co-investigator.

Dr. Khattak is the Editor-in-Chief for the *Journal of Intelligent Transportation Systems*, Taylor and Francis Publishers. Dr. Khattak is active in professional organizations. He represents the University of North Carolina at CUTC (Council of University Transportation Centers). He is currently a member of Committees on (1) Intelligent Transportation Systems and (2) User Information Systems, Transportation Research Board, National Academies. He is also the co-chair of the Advanced Traveler Information Systems sub-committee.

¹Stiftel B., et al. Faculty Quality at U.S. Graduate Planning Schools. A National Research Council-Style Study, *Journal of Planning Education & Research*, JPER, 24:1, 2004.

1. PERSONAL

Office: CB 3140 New East Bldg, DCRP, [UNC-Chapel Hill](#), NC 27599-3140
Home: 112 Edgehill Place, Chapel Hill, NC 27516.
Married, two children

T: (919) 962-4760
T: (919) 932-6988

2. EDUCATION

Ph.D. [Northwestern University](#), Civil Engineering ([Transportation](#)) 1991
M. S. [Northwestern University](#), Civil Engineering ([Transportation](#)) 1988
B. Sc. NWFP University of Engineering & Technology, Pakistan, (Mech. Engineering) 1980

3. PROFESSIONAL EXPERIENCE

Academic Positions since receiving Ph.D.

Professor, [Planning Department](#), University of North Carolina-Chapel Hill 2005-
Associate Professor, [Planning Department](#), University of North Carolina-Chapel Hill 2000-2005
Assistant Professor, [Planning Department](#), University of North Carolina-Chapel Hill 1995-2000
Director, [Carolina Transportation Program](#), University of North Carolina-Chapel Hill 1995-2005
Associate Chair, Planning, University of North Carolina-Chapel Hill 2002-2003

Other Professional Employment

Assistant Research Engineer, [Inst of Trans Studies](#), University of California at Berkeley 1991-1995
Visiting Associate Research Engineer, ITS, University of California at Berkeley 1995-2004
Research Officer, [Transport Studies Group](#), University of Oxford, UK 1991-1991

4. HONORS, SCHOLARSHIPS & AWARDS

- National recognition: Ranked 4th in terms of faculty with the greatest number of publications in national survey of 84 US planning schools & 856 planning faculty members, Stiffler B. et al. Faculty Quality at U.S. Graduate Planning Schools: A National Research Council-Style Study, *Journal of Planning Education & Research*, 24:1, 2004. 2004
- Awarded one semester W.R. Kenan competitive leave, UNC-Chapel Hill (Selection criteria: Distinction and length of service, quality of proposed project & contribution of leave to the person's career.) Additional \$4000 cash award. 2005
- Best paper award, [Committee on Pedestrians](#), Transportation Research Board, National Academies 2001
- Invited by the Government of France to help develop research agenda on Intelligent Transportation Systems 2003
- Recognized by the United States Government as person with extra-ordinary ability 1995-2002
- Center for Urban and Regional Studies Award, UNC-CH—\$1,000 2001
- Junior Faculty Development Award UNC-CH Foundation—\$5,000 1996-1997
- [TNT North America](#) Scholarship for graduate studies 1990
- [Transportation Center](#) Dissertation Year Fellowship, Northwestern University 1990-1991
- Pakistan [Ministry of Science and Technology](#) Scholarship for graduate studies 1986-1990

5. PUBLICATIONS/BIBLIOGRAPHY

BOOK CHAPTER

Khattak, A., F. Targa, and Y. Yim, Advanced Traveler Information Systems: Relationship to Traveler Behavior, Chapter 12 in *Assessing the Costs and Benefits of Intelligent Transportation Systems*, Kluwer Academic Publishers, Edited by D. Gillen and D. Levinson, 2004, pp. 218-240.

REFEREED JOURNAL PAPERS

1. Khattak A., J. Dahlgren and P. McDonough, Tools for supporting intelligent transportation systems implementation decisions, Forthcoming in *Transportation Research Record: Journal of the Transportation Research Board*, National Academies, Washington, D.C., 2006.

2. Shay E., Y. Fan, D. Rodriguez and A. Khattak, Drive or Walk? Utilitarian Trips within a Neo-Traditional Neighborhood, Forthcoming in *Transportation Research Record: Journal of the Transportation Research Board*, National Academies, Washington, D.C., 2006.
3. Rodriguez D., A. Khattak, and K. Evenson, Physical activity in neo-traditional neighborhoods, Forthcoming in *Journal of American Planning Association*, 2005.
4. Shay E., and A. Khattak, Auto ownership and use in neo-traditional and conventional neighborhoods, *Transportation Research Record: Journal of the Transportation Research Board*, No. 1902, National Academies, Washington, D.C., 2005, pp. 18–25.
5. Khattak, A., and D. Rodriguez, The impact of neo-traditional developments on traveler behavior, *Transportation Research, Part A: Policy and Practice*, 39:6, 2005, pp. 481-500. Offered the 2005 Transportation Research Board Pyke Johnson Award for outstanding paper in transportation systems planning and administration.
6. Anspacher, D., A. Khattak, and Y. Yim, The demand for rail feeder shuttles, *Journal of Public Transportation*, Volume 8, No. 1, 2005, pp. 1-20.
7. Khattak A., N. Roupail, K. Monast, and J. Havel, A methodology for prioritizing and expanding freeway service patrols, *Transportation Research Record*, 1861, TRB, National Academies, Washington, D.C., 2004. pp. 1-10.
8. de Palma A., C. Fontan, and A. Khattak, Analyzing work departure time variability in Brussels, *Reflcts Perspectives de la vie economique*, de boeck, Tome XLIII, No 4, 2004, pp. 89-110.
9. Khattak A., and Y. Yim, Traveler response to innovative personalized demand responsive transit system in the San Francisco Bay Area, *American Society of Civil Engineering, ASCE Journal of Urban Planning & Development*, 130:1, 2004, pp. 42-55.
10. Khattak A., and F. Targa, Injury severity and total harm in truck-involved work zone crashes, *Transportation Research Record*, 1877, TRB, National Academies, Washington, D.C., 2004, pp. 106-116.
11. Schneider R., R. Ryznar, and A. Khattak, An accident waiting to happen: A spatially-oriented methodology that integrates perceptions into proactive pedestrian planning, *Accident Analysis and Prevention*, 36, pp. 193–211, 2004.
12. Khattak A., and M. Rocha, Are SUVs Supremely Unsafe Vehicles? Analysis of rollovers and injuries, *Transportation Research Record*, 1840, TRB, National Academies, Washington, D.C., pp. 167-177, 2003.
13. Rodriguez D., M. Rocha, A. Khattak and M. Belzer, The effects of truck driver wages and working conditions on highway safety: A case study, *Transportation Research Record*, 1833, TRB, National Academies, Washington, D.C., pp. 95-102, 2003.
14. Council F., D. Harkey, D. Nabors, A. Khattak and Y. Mohamedshah, Examination of Fault, Unsafe Driving Acts, and Total Harm in Car-Truck Collisions, *Transportation Research Record*, 1830, TRB, National Academies, Washington, D.C., pp. 63-71, 2003.
15. Khattak A., Y. Yim and L. Stalker, Willingness to pay for travel information, *Transportation Research-Part C*, Vol. 11, No. 2, Pergamon Press, pp. 137-159, 2003.
16. Yim Y., A. Khattak and J. Raw, Traveler response to new dynamic information sources: Analyzing corridor and area-wide behavioral surveys, *Transportation Research Record*, 1803, TRB, National Academies, Washington, D.C., pp. 66-75, 2002.
17. Jolicouer P. and A. Khattak, How airport context and service are related to General Aviation Aircraft operations, *Transportation Research Record* 1788, TRB, National Academies, Washington, D.C., pp. 116-123, 2002.
18. Khattak Asad, Aemal Khattak, and F. Council, Effects of work zone presence on injury and non-injury crashes, *Accident Analysis and Prevention*, 34, Pergamon Press, pp. 19-29, 2002.
19. Wolinetz, L., A. Khattak and Y.B. Yim, Why will some individuals pay for travel information when it can be free? Analysis of a Bay Area travel survey, *Transportation Research Record*, 1759, TRB, National Academies, Washington, D.C., pp. 9-18, 2001.
20. Khattak, A. Injury severity in multi-vehicle rear-end crashes, *Transportation Research Record*, 1746, TRB, National Academies, Washington, D.C., pp. 59-68, 2001.
21. Schneider R., A. Khattak, and C. Zegeer, A proactive method of improving pedestrian safety using GIS: Example from a college campus, *Transportation Research Record*, 1773, TRB, National Academies, Washington, D. C. 2001, pp. 97-107. NOTE: Recipient of the **best paper award** from the TRB Committee on Pedestrians.

22. Macek, N., A. Khattak, and R. Quercia, What is the effect of commute time on employment? Analysis of spatial patterns in the New York Metropolitan area, *Transportation Research Record*, 1780, TRB, National Academies, Washington, D.C., pp. 43-52, 2001.
23. Drucker, J. and A. Khattak, The propensity to work from home: Modeling results from the 1995 Nationwide Personal Transportation Survey, *Transportation Research Record*, 1706 TRB, National Academies, Washington, D.C., pp. 108-117, 2000.
24. Khattak, A., V. Amerlynck and R. Quercia, Are travel times and distances to work greater for residents of poor urban neighborhoods? *Transportation Research Record*, 1718, TRB, National Academies, Washington, D.C., pp. 73-82, 2000.
25. Krull K., A. Khattak, and F. Council, Injury effects of rollovers and events sequence in single-vehicle crashes, *Transportation Research Record*, 1717, TRB, National Academies, Washington, D. C. 2000, pp. 46-54.
26. Khattak A., Y. Yim, and L. Stalker, Does travel information equally influence commuter and non-commuter behavior? Results from the San-Francisco Bay Area TravInfo project, *Transportation Research Record*, 1694, TRB, National Academies, Washington, D.C., pp. 48-58, 1999.
27. Khattak A. and H. Renski, "PLAN<>HOV: A case-based reasoning planning tool for High-Occupancy-Vehicle lane analysis in a GIS environment," *Transportation Research Record*, 1682, TRB, National Academies, Washington, D. C., pp. 18-27, 1999.
28. McMahon P., C. Duncan, D. Stewart, C. Zegeer, and A. Khattak, "An Analysis of Factors Contributing to "Walking Along Roadway" Crashes," *Transportation Research Record*, 1674, TRB, National Academies, Washington, D.C., pp. 41-48, 1999.
29. Renski H., A. Khattak, F. Council, "Impact of speed limit increases on crash injury severity: Analysis of single-vehicle crashes on North Carolina Interstate Highways," *Transportation Research Record*, 1665, TRB, National Academies, Washington, D.C., pp. 100-108, 1999.
30. Klop J. and A. Khattak, "Factors influencing bicycle crash severity on two-lane undivided roadways in North Carolina," *Transportation Research Record*, 1674, TRB, National Academies, Washington, D.C., pp. 78-85, 1999.
31. Khattak Aemal, and Asad Khattak, A comparative analysis of spatial knowledge and en route diversion behavior across Chicago and San Francisco: Implications for Advanced Traveler Information Systems. *Transportation Research Record*, 1621, TRB, National Academies, Washington, D.C., pp. 27-35, 1998.
32. Al-Deek H., A. Khattak, and P. Thananjeyan, A combined traveler behavior and transportation system performance model with ATIS. *Transportation Research*, Pergamon Press, Vol 32A, No. 7, pp. 479-493, 1998.
33. Khattak A., and M. Hickman, Automatic vehicle location and computer aided dispatch systems: Commercial availability and deployment in transit agencies. *Journal of Public Transportation*, Vol 2, No. 1, pp. 1-26, 1998.
34. Khattak A., P. Kantor, and F. Council, The role of adverse weather in key crash types on limited access roadways: Implications for Advanced Weather Systems. *Transportation Research Record* 1621, TRB, National Academies, Washington, D.C., pp. 10-19, 1998.
35. Duncan C., A. Khattak, and F. Council, Using the ordered probit model to analyze factors that influence injury severity in truck-passenger car rear-end collisions on divided highways. *Transportation Research Record* 1635, TRB, Washington, D. C., National Academies, pp. 63-71, 1998.
36. de Palma A., A. Khattak, and D. Gupta, Commuters' departure time decisions in Brussels. *Transportation Research Record* 1537, TRB, National Academies, Washington, D.C., pp. 46-54, 1997.
37. Khattak A., and A. de Palma, The impact of adverse weather conditions on the propensity to change travel decisions: A survey of Brussels commuters. *Transportation Research-Part A*, Pergamon Press, Vol. 31A, No. 3, pp. 181-203, 1997.
38. Khattak A., and A. Kanafani, PLANiTS: Structuring and Supporting the ITS Planning Process. *Transportation Research Record*, 1588, TRB, National Academies, Washington, D.C., pp. 32-40, 1997.
39. Polydoropoulou A., M. Ben-Akiva, A. Khattak and G. Lauprete, Modeling revealed and stated en route travel response to ATIS. *Transportation Research Record*, 1537, TRB, National Academies, Washington, D.C., pp. 38-45, 1996.
40. Khattak A., and A. Kanafani, Case-Based Reasoning: A planning tool for Intelligent Transportation Systems. *Transportation Research*, Pergamon Press, Vol. 4C, No. 5, pp. 267-288, 1996.
41. Khattak A., A. Polydoropoulou, and M. Ben-Akiva, Modeling revealed and stated pre-trip travel response to ATIS. *Transportation Research Record*, 1537, TRB, National Academies, Washington, D.C., pp. 46-54, 1996.
42. Hall R., M. Miller, and A. Khattak, Evaluating the effectiveness of integrated traffic corridors: Concept and practice. *ITS Journal*, Vol. 3, No. 1, pp. 49-67, 1996.

43. Khattak A., H. Noeimi, H. Al-Deek, and R. Hall, A taxonomy for Advanced Public Transportation Systems. *Journal of Public Transportation* Vol. 1, No. 1, pp. 43-68, 1996.
44. Khattak A., J. Schofer, and F. Koppelman, Effect of traffic reports on commuters' route and departure time changes. *Journal of Advanced Transportation*, Vol. 29, No. 2, pp. 193-212, 1995.
45. Khattak A., J. Schofer, and M. Wang, A simple procedure for predicting freeway incident duration. *IVHS Journal*, Vol. 2, No. 2, pp. 113-138, 1995.
46. Khattak A., A. Kanafani, and E. Le Colletter, Stated and reported route diversion behavior: Implications on the benefits of ATIS. *Transportation Research Record*, 1464, TRB, National Academies, Washington, D.C., pp. 193-212, 1994.
47. Kanafani A., A. Khattak, and J. Dahlgren, A planning methodology for intelligent urban transportation systems. *Transportation Research*, Pergamon Press, Vol. 2C, No. 4, pp. 197-215, 1994.
48. Vlahos N., A. Khattak, M. Manheim, and A. Kanafani, The role of teamwork in a planning methodology for intelligent urban transportation systems. *Transportation Research*, Pergamon Press, Vol. 2C, No. 4, pp. 217-229, 1994.
49. Khattak A., H. Al-Deek, and R. Hall, Concept of an Advanced Traveler Information System testbed for the Bay Area: Research issues. *IVHS Journal*, Vol. 2, No. 1, pp. 45-71, 1994.
50. Schofer J., A. Khattak, and F. Koppelman, Behavioral issues in the design and evaluation of Advanced Traveler Information Systems. *Transportation Research*, Pergamon Press, Vol. 1C, No. 2, pp. 107-117, 1993.
51. Khattak A., J. Schofer, and F. Koppelman, Commuters' en-route diversion and return decisions: Analysis and implications for Advanced Traveler Information Systems, *Transportation Research*, Pergamon Press, Vol. 27A, No. 2, pp. 101-111, 1993.
52. Khattak A., F. Koppelman, and J. Schofer, Stated preferences for investigating commuters' diversion propensity. *Transportation*, Vol. 20, pp. 107-127, 1993.
53. Khattak A., and J. Polak, Effect of parking information on travellers' knowledge and behavior. *Transportation*, Vol. 20, pp. 373-393, 1993.
54. Khattak A., J. Schofer, and F. Koppelman, Factors influencing commuters' en-route diversion behavior in response to delay, *Transportation Research Record*, 1318, TRB, National Academies, Washington, D.C., pp. 124-135, 1991.
55. Khattak A., and P. Jovanis, Capacity and delay estimation approaches for priority unsignalized intersections: Conceptual and empirical issues. *Transportation Research Record*, 1287, TRB, National Academies, Washington, D.C., pp. 129-137, 1990.

GRADUATE WORK: THESIS & DISSERTATION

- Dissertation: Khattak A. *Driver Response to Unexpected Travel Conditions: Effect of Traffic Information and Other Factors*. Ph.D., Civil Engineering, Northwestern University, Published 6 refereed journal papers based solely on the dissertation work.
- Thesis: Khattak A. *Conceptual and empirical validation of the 1985 Highway Capacity Manual procedure for unsignalized intersections*. MS Thesis, Civil Engineering, Northwestern University, Published a refereed journal paper based on the thesis work.

6. CONFERENCE PRESENTATIONS

Dr. Khattak made the presentations marked with **[AK]**. Otherwise, Dr. Khattak was in the audience when the co-author(s) presented the paper. All Transportation Research Board presentations required a peer-review of the full paper before acceptance.

1. Khattak A., J. Dahlgren and P. McDonough, Tools for supporting intelligent transportation systems implementation decisions, To be presented at 2006 Annual Transportation Research Board Meeting, on TRB CD-ROM, 2006.
2. Shay E., Y. Fan, D. Rodriguez, and A. Khattak, Drive or walk? Utilitarian trips within neotraditional neighborhoods, To be presented at 2006 Annual Transportation Research Board Meeting, on TRB CD-ROM, 2006.
3. Khattak A., and Y. Fan, What exacerbates injury and harm in car-SUV collisions? To be presented at 2006 Annual Transportation Research Board Meeting, on TRB CD-ROM, 2006.
4. Benjamin J. R. Sakano, B. McKinney, A. Khattak, D. Rodriguez, & C. Gaskins, Analysis of value pricing in a medium-sized city, To be presented at 2006 Annual Transportation Research Board Meeting, 2006.

5. Khattak, A., & D. Rodriguez, The impact of neo-traditional developments on traveler behavior, Presented at 2005 Annual Transportation Research Board Meeting, on TRB CD-ROM, 2005. [AK]
6. Rodriguez D., A. Khattak, and K. Evenson, Physical activity in neo-traditional neighborhoods, Presented at 2005 Annual Transportation Research Board Meeting, on TRB CD-ROM, 2005. [AK]
7. Shay E. and A. Khattak, Auto ownership and use in neo-traditional and conventional neighborhoods, Presented at 2005 Annual Transportation Research Board Meeting, on TRB CD-ROM, 2005.
8. Wernick S. & A. Khattak, Working from home in US metropolitan areas: The role of new technologies, Presented at 2005 Annual Transportation Research Board Meeting, on TRB CD-ROM, 2005. [AK]
9. Khattak A., D. Rodriguez and D. Anspacher, "New Urbanism: Effects on walking and bicycling physical activity," Presented at the 2004 Active Living Research Annual Conference, L'Auberge Del Mar Resort, Del Mar, California, January 30-31, 2004. [AK] Also presented progress report on RWJF funded study at the conference.
10. Khattak A., N. Rouphail, K. Monast & J. Havel, "A methodology for prioritizing and expanding freeway service patrols," Presented at 2004 Annual Transportation Research Board Meeting, on TRB CD-ROM, 2004.
11. Khattak A., and A. Sharafsaleh, ITS Decision Website: Tools, Invited presentation to California Department of Transportation, Sacramento, CA, June 2004. [AK]
12. Khattak, A. Traditional Neighborhood Development trip generation study, Invited presentation to North Carolina Department of Transportation, Raleigh, NC, 2004. [AK]
13. Khattak A., and F. Targa, "Injury severity and total harm in truck-involved work zone crashes," Presented at 2004 Annual Transportation Research Board Meeting, 2004.
14. Khattak A., R. Schneider and F. Targa, "Risk Factors in Large Truck Rollovers and Injury Severity: Analysis of Single-Vehicle Crashes," Presented at 2003 Annual Transportation Research Board Meeting, on TRB CD-ROM, 2003. [AK]
15. Rodriguez D., M. Rocha, A. Khattak and M. Belzer, "The effects of truck driver wages and working conditions on highway safety: A case study," Presented at 2003 Annual Transportation Research Board Meeting, on TRB CD-ROM, 2003.
16. Khattak A. and M. Rocha, "Are SUVs Supremely Unsafe Vehicles? Analysis of Rollovers and Injuries," Presented at 2003 Transportation Research Board Annual Meeting, on TRB CD-ROM, 2003. [AK]
17. Council F., D. Harkey, D. Nabors, A. Khattak and Y. Mohamedshah, "An examination of "Fault" "Unsafe Driving Acts" and "Total Harm" in Car-Truck Collisions," Presented at 2003 Transportation Research Board Annual Meeting, on TRB CD-ROM, 2003.
18. Hummer J., C. Hultgren and A. Khattak, Identification of promising sites on secondary highways using inventory data," Presented at 2003 Transportation Research Board Annual Meeting, on TRB CD-ROM, 2003.
19. Khattak A. "Access and response to Advanced Traveler Information Systems," **Invited presentation at the 2003 Transportation Research Board Annual Meeting, 2003.** [AK]
20. Duncan, C., A. Khattak, and R. Hughes, Effectiveness of pedestrian safety treatments for "hit along roadway crashes, Presented at 81st Annual Transportation Research Board Meeting, on TRB CD-ROM, Washington, D. C. 2002. [AK]
21. Schneider R., A. Khattak, and R. Ryznar, Factors associated with pedestrian crash risk: Integrating risk perception and police-reported crashes, Presented at 81st Annual Transportation Research Board Meeting, on TRB CD-ROM, Washington, D. C. 2002. Also presented at University of California at Berkeley, 2004. [AK]
22. Jolicouer P. and A. Khattak, "How are airport context and service related to General Aviation Aircraft operations? Presented at 81st Annual Transportation Research Board Meeting, on TRB CD-ROM, Washington, D. C. 2002.
23. Yim Y., A. Khattak & J. Raw, Traveler response to new dynamic information sources: Analyzing corridor and area-wide behavioral surveys, Presented at 81st Annual Transportation Research Board Meeting, on TRB CD-ROM, Washington, D. C. 2002. [AK]
24. Huang H., R. Schneider, C. Zegeer, A. Khattak, & J. Lacy, "Analysis of Serious Crashes and Potential Countermeasures on North Carolina Highways," Presented at 81st Annual Transportation Research Board Meeting, on TRB CD-ROM, Washington, D. C. 2002.
25. Khattak A. "Transportation Security: Identifying Vulnerabilities through Spatial Analysis of Risk Perceptions," Paper presented at the Transportation Security Symposium sponsored by the Southeastern Transportation Center, University of Tennessee at Knoxville, 2002. [AK]
26. Schneider, R., A. Khattak, and C. Zegeer, "A proactive method of improving pedestrian safety using GIS: Example from a college campus," Presented at 80th Annual Transportation Research Board Meeting, Preprint 01-0504, Washington, D. C. 2001.

27. Khattak, A. "Injury severity in multi-vehicle rear-end crashes, Presented at the 80th Annual Transportation Research Board Meeting, Preprint 01-3466, Washington, D. C. 2001. [AK]
28. Khattak, A. A. de Palma, C. Fontan, P. Koskenoja, Analyzing work departure time variability in Brussels, Presented at 80th Annual Transportation Research Board Meeting, Preprint 01-2397, Washington, D. C. 2001. [AK]
29. Wolinetz, L., A. Khattak and Y.B. Yim, Why will some individuals pay for travel information when it can be free? Analysis of a Bay Area travel survey, Presented at 80th Annual Transportation Research Board Meeting, Preprint 01-2969, Washington, D. C. 2001.
30. Macek, N., A. Khattak, and R. Quercia, What is the effect of commute time on employment? Analysis of spatial patterns in the New York Metropolitan area, Presented at 80th Annual Transportation Research Board Meeting, Preprint 01-2946, Washington, D. C. 2001.
31. Krull, K., A. Khattak, and F. Council, "Injury effects of rollovers and events sequence in single-vehicle crashes," Presented at 79th Annual Transportation Research Board Meeting, Preprint 00-0662 Washington, D. C. 2000.
32. Khattak, A., Y. Yim and L. Stalker, "Willingness to pay for travel information: Combining revealed and stated preferences with a random effects negative binomial model," Presented at 79th Annual Transportation Research Board Meeting, Preprint 00-0516, Washington, D. C., 2000. [AK]
33. Drucker, J. and A. Khattak, "The propensity to work from home: Modeling results from the 1995 Nationwide Personal Transportation Survey," Presented at 79th Annual Transportation Research Board Meeting, Preprint 00-0453, Washington, D. C. 2000.
34. Khattak, A., V. Amerlynck and R. Quercia, "Are travel times and distances to work greater for residents of poor urban neighborhoods," Presented at 79th Annual Transportation Research Board Meeting, Preprint 00-0720, Washington, D. C. 2000. [AK]
35. McMahon P., C. Duncan, D. Stewart, C. Zegeer, A. Khattak, "An Analysis of Factors Contributing to "Walking Along Roadway" Crashes," Preprint 991203, Presented at the 78th Annual Transportation Research Board Meeting, Washington, D.C. 1999.
36. Renski H., A. Khattak, F. Council, "Impact of speed limit increases on crash injury severity: Analysis of single-vehicle crashes on North Carolina Interstate Highways," Presented at the 78th Annual Transportation Research Board Meeting, Preprint 990975, Washington, D. C., 1999.
37. Klop J. and A. Khattak, "Factors influencing bicycle crash severity on two-lane undivided roadways in North Carolina," Presented at the 78th Annual Transportation Research Board Meeting, Preprint 991109, Washington, D.C., 1999.
38. Khattak Asad, Aemal Khattak, and F. Council, "Analysis of injury and non-injury crashes in California work zones, Preprint 991438, Presented at the 78th Annual Transportation Research Board Meeting, TRB, National Academies, Washington, D.C. 1999. [AK]
39. Khattak A. and H. Renski, "PLAN<>HOV: A case-based reasoning planning tool for High-Occupancy-Vehicle lane analysis in a GIS environment," Preprint 991108, Presented at the 78th Annual Transportation Research Board Meeting, Washington, D. C. 1999. [AK]
40. Khattak A., A. Siefkes and F. Council, "Are truck-involved crashes more frequent and severe during work zones." Presented at 2nd International Large Truck Safety Symposium, University of Tennessee, Knoxville. (In Symposium Proceeding, pp. 211-225) 1999. [AK]
41. Khattak Aemal, and Asad Khattak, "A comparative analysis of spatial knowledge and en route diversion behavior across Chicago and San Francisco: Implications for Advanced Traveler Information Systems." Presented at 1998 Annual Transportation Research Board Meeting, Preprint No. 980792, Washington, D.C., 1998.
42. Khattak A., P. Kantor, and F. Council, "The role of adverse weather in key crash types on limited access roadways: Implications for Advanced Weather Systems." Presented at 77th Annual Transportation Research Board Meeting, Preprint No. 981132, Washington, D.C., 1998. [AK]
43. Khattak A., and M. Hickman, "Automatic vehicle location and computer aided dispatch systems: Commercial availability and deployment in transit agencies." Presented at 77th Annual Transportation Research Board Meeting, Preprint No. 980793, Washington, D.C., 1998. [AK]
44. Duncan C., A. Khattak, and F. Council, "Using the ordered probit model to analyze factors that influence injury severity in truck-passenger car rear-end collisions on divided highways." Presented at 1st International Large Truck Safety Symposium, University of Tennessee, Knoxville. In Symposium Proceeding, pp. 141-150. Presented at 1998 Annual Transportation Research Board Meeting, Preprint No. 981237, Washington, D.C., 1998.

45. de Palma A., A. Khattak, and D. Gupta, "Commuters' departure time decisions in Brussels." Presented at 76th Annual Transportation Research Board Meeting, Preprint No. 971101, Washington, D.C., 1997. [AK]
46. Khattak A., and A. Kanafani, "PLANiTS: Structuring and Supporting the ITS Planning Process." Presented at 76th Annual Transportation Research Board Meeting, Preprint No. 970362, Washington, D.C., 1997. [AK]
47. Hummer J., A. Khattak, and P. Kantor, "Collision factors and potential countermeasures related to heavy trucks on two-lane roads," Presented at 1st International Large Truck Safety Symposium, University of Tennessee, Knoxville. (In Symposium Proceedings), 1997. [AK]
48. Polydoropoulou A., M. Ben-Akiva, A. Khattak and G. Lauprete, "Modeling revealed and stated enroute travel response to ATIS." Presented at the 75th Annual Transportation Research Board Meeting, Preprint No. 961087, Washington, D.C., 1996.
49. Khattak Aemal, K. Goulias, and Asad Khattak, "A comparison of traveler perceptions regarding traffic congestion and route selection behavior across Chicago, San Francisco and Centre County." Presented at the 75th Annual Transportation Research Board Meeting, Preprint No. 960563, Washington, D.C., 1996.
50. Khattak A., A. Polydoropoulou, and M. Ben-Akiva, "Modeling revealed and stated pretrip travel response to ATIS." Presented at the 74th Annual Transportation Research Board Meeting, Preprint No. 950990, Washington, D.C., 1995. [AK]
51. Khattak A., and A. de Palma, "The impact of adverse weather conditions on the propensity to change travel decisions: A survey of Brussels commuters." Presented at the 74th Annual Transportation Research Board Meeting, Preprint No. 950548, Washington, D.C., 1995. [AK]
52. Khattak A., H. Noeimi, H. Al-Deek, and R. Hall, "A taxonomy for Advanced Public Transportation Systems." Presented at the Conference on Advanced Technologies in Transportation and Traffic Management, Singapore, 1994. [AK]
53. Khattak A., A. Kanafani, and E. Le Colletter, "Stated and reported route diversion behavior: Implications on the benefits of ATIS." Presented at the 73rd Annual Transportation Research Board Meeting, Preprint No. 940394, Washington, D.C., 1994.
54. Khattak A., J. Schofer, and M. Wang, "A simple procedure for predicting freeway incident duration." Presented at the 73rd Annual Transportation Research Board Meeting, Preprint No. 940379, Washington, D.C., 1994. [AK]
55. Al-Deek H., A. Khattak, and P. Thananjeyan, "A combined traveler behavior and transportation system performance model with ATIS." Presented at the 4th Annual Meeting of IVHS America, Atlanta, Georgia, 1994. [AK]
56. Khattak A., and E. Le Colletter, "Stated and reported diversion to public transportation under incident conditions: Implications on the benefits of Multimodal ATIS." Presented at the 4th Annual Meeting of IVHS America, Atlanta, Georgia, 1994. [AK]
57. Kanafani A., A. Khattak, and J. Dahlgren, "A planning methodology for intelligent urban transportation systems." Presented at the 73rd Annual Transportation Research Board Meeting, Preprint No. 940418, Washington, D.C., 1994. [AK]
58. Vlahos N., A. Khattak, M. Manheim, and A. Kanafani, "The role of teamwork in a planning methodology for intelligent urban transportation systems." Presented at the 73rd Annual Transportation Research Board Meeting, Preprint No. 940491, Washington, D.C., 1994.
59. Khattak A., F. Koppelman, and J. Schofer, "Automobile commuters' response to adverse weather conditions: Effect of weather and traffic information and implications for information systems." Presented at the 72nd Annual Transportation Research Board Meeting, Washington, D.C., 1993. [AK]
60. Khattak A., H. Al-Deek, and R. Hall, "Concept of an Advanced Traveler Information System testbed for the Bay Area: Research issues." Presented at the 3rd International Conference on applications of Advanced Technologies for Transportation Engineering, Seattle, Washington, July 1993. [AK]
61. Khattak A., F. Koppelman, and J. Schofer, "Stated preferences for investigating commuters' diversion propensity." Presented at the 71st Annual Transportation Research Board Meeting, Washington, D. C., 1992. [AK]
62. Schofer J., A. Khattak, and F. Koppelman, "Behavioral issues in the design and evaluation of Advanced Traveler Information Systems." Presented at the 6th World Conference on Transport Research, Lyon, France, 1992. [AK]
63. Khattak A., J. Schofer, and F. Koppelman, "Factors influencing commuters' en-route diversion behavior in response to delay." Presented at the 70th Annual Transportation Research Board Meeting, Washington, D. C., 1991. [AK]

64. Khattak A., J. Schofer, and F. Koppelman, "Commuters' en-route diversion and return decisions: Analysis and implications for Advanced Traveler Information Systems." Presented at the 6th International Conference on Travel Behavior, Quebec City, Canada, 1991. [AK]
65. Khattak A., and J. Polak, "Effect of parking information on travellers' knowledge and behavior." Presented at the 24th Annual Conference of the Universities Transport Studies Group, University of Newcastle, 1991.
66. Khattak A., J. Schofer, and F. Koppelman, "Effect of traffic reports on commuters' route and departure time changes." Presented at the 2nd International Conference on Vehicle Navigation and Information Systems (VNIS '91), IEEE, Dearborn, Michigan, (In proceedings) 1991. [AK]
67. Khattak A., and P. Jovanis, "Capacity and delay estimation approaches for priority unsignalized intersections: Conceptual and empirical issues." Presented at the 69th Annual Transportation Research Board Meeting, Washington, D.C., 1990. [AK]

7. TECHNICAL REPORTS

All technical reports were reviewed by the sponsors. Many research reports were peer-reviewed and published as research papers.

All [California PATH Program Research Reports](#) are all available at the PATH Program website.

All [NCDOT Research Reports](#) are all available at the NCDOT website.

1. Khattak A., J. Stone, et al. *Traditional Neighborhood Development Trip Generation Study*, North Carolina Department of Transportation, Research Project 2003-13; FHWA/NC/2005-05, 2005.
2. Khattak A., and N. Roupail, *Incident Management Assistance Patrols: Assessment and Investment Benefits and Costs*, North Carolina Department of Transportation, Research Project 2003-06, 2005.
3. Dahlgren, J., A. Khattak, et al. *ITS Decision enhancements: Developing Case Based Reasoning and Expert Systems and incorporating new material*, California PATH Research Report UCB-ITS-PRR-2004-41, Partners for Advanced Transit and Highways (PATH), Institute of Transportation Studies, University of California at Berkeley, California, 2004.
4. Council F., D. Harkey, D. Nabors, A. Khattak and Y. Mohamedshah, "Examination of Fault, Unsafe Driving Acts, and Total Harm in Car-Truck Collisions," FHWA-HRT-04-085, Federal Highway Administration, US Department of Transportation, 2004.
5. Yim Y., A. Khattak and J. Raw, *Traveler response to new dynamic information sources: Analyzing corridor and area-wide behavioral surveys*, California PATH Working Paper UCB-ITS-PWP-2004-4, Partners for Advanced Transit and Highways (PATH), Institute of Transportation Studies, University of California at Berkeley, California, 2004.
6. Anspacher D., A. Khattak and Y. Yim, *Demand-responsive transit shuttles: Who will use them?* California PATH Working Paper UCB-ITS-PWP-2004-5, Partners for Advanced Transit and Highways (PATH), Institute of Transportation Studies, University of California at Berkeley, California, 2004.
7. Khattak A., D. Rodriguez, F. Targa & M. Rocha, *Understanding the role of truck-driver, occupational and high-risk roadway factors in truck-involved collisions*, Research Report, Southeastern Transportation Center, University of Tennessee and Research and Special Programs Administration, US Department of Transportation, 2003.
8. Khattak A. and Y. Yim, *Traveler response to innovative personalized demand responsive transit system in the San Francisco Bay Area*, California PATH Working Paper UCB-ITS-PWP-2003-5, Partners for Advanced Transit and Highways (PATH), Institute of Transportation Studies, University of California at Berkeley, California, 2003.
9. Khattak A., F. Targa and Y. Yim, *Investigation of traveler information and related travel behavior in the San Francisco Bay Area*, California PATH Working Paper UCB-ITS-PWP-2003-6, Partners for Advanced Transit and Highways (PATH), Institute of Transportation Studies, University of California at Berkeley, California, 2003.
10. Khattak A. *Transportation Security: Identifying vulnerabilities through spatial analysis of risk perceptions*, In Security Papers, Southeastern Transportation Center, University of Tennessee and Research and Special Programs Administration, US Department of Transportation, 2002.
11. Khattak A. and M. Rocha, *Which vehicles are most prone to rollovers?* Research Report, Southeastern Transportation Center, University of Tennessee and Research and Special Programs Administration, US Department of Transportation, 2002.

12. Khattak A., R. Schneider and F. Targa, *Risk Factors in Large Truck Rollovers and Injury Severity: Analysis of Single-Vehicle Crashes*, Research Report, Southeastern Transportation Center, University of Tennessee and Research and Special Programs Administration, US Department of Transportation, 2002.
13. McMahan P., C. Zegeer, C. Duncan, R. Knoblauch, J. Stewart, & A. Khattak., *An Analysis of Factors Contributing to "Walking Along Roadway" Crashes: Research Study and Guidelines for Sidewalks and Walkways*, McLean, VA : Federal Highway Administration, Report No. FHWA-RD-01-101, 2002.
14. Huang H., R. Schneider, C. Zegeer, A. Khattak and V. Amerlynck, *Identification of severe crash factors and countermeasures in North Carolina-Final report*, NC Department of Transportation, FHWA/NC/2001-003, 2001.
15. Wolinetz L., A. Khattak & Y. Yim, *TravInfo Evaluation: Traveler Response Element Willingness to Pay for Traveler Information: Analysis of Wave 2 Broad Area Survey*, California PATH Working Paper UCB-ITS-PWP-2001-5, Partners for Advanced Transit and Highways (PATH), Institute of Transportation Studies, University of California at Berkeley, California, 2001.
16. Yim, Y. and A. Khattak, *Personalized Demand Responsive Transit Systems*, Research Report UCB-ITS-PWP-2000-22, Partners for Advanced Transit and Highways (PATH), Institute of Transportation Studies, University of California at Berkeley, California, 2000.
17. Hummer J. C. Hultgren, A. Khattak, et al. *Accidents on secondary highways and counter-measures, Phase II*. Research Report, Southeastern Transportation Center, University of Tennessee and Research and Special Programs Administration, US Department of Transportation, 1999.
18. Khattak, A, and G. Cassidy, *Factors that influence multi-vehicle rear-end crashes: Analysis of crash propagation and injury severity*. Research Report, Southeastern Transportation Center, University of Tennessee and Research and Special Programs Administration, US Department of Transportation, 1999.
19. Hummer J. C. Hultgren, A. Khattak, et al. *Accidents on secondary highways and counter-measures, Phase I*. Research Report, Southeastern Transportation Center, University of Tennessee and Research and Special Programs Administration, US Department of Transportation, 1998.
20. de Palma A., A. Khattak, and D. Gupta, *Commuters' departure time decisions in Brussels*. Research Report UCB-ITS-RR-95-5, Institute of Transportation Studies, University of California at Berkeley, California, 1995. Research Report No. 9708 University of Paris and University of Cergy-Pontoise, 1997.
21. Khattak A., and M. Hickman, P. Gould and T. Paramsothy *Advanced Public Transportation Systems: A taxonomy, commercial availability and deployment, Phase II*. Research Report UCB-ITS-PRR-97-16, Partners for Advanced Transit and Highways (PATH), Institute of Transportation Studies, University of California at Berkeley, California, 1997.
22. Khattak A., and A. Kanafani, *PLANiTS: Final report for MOU 171*. Research Report 97-C13, Partners for Advanced Transit and Highways (PATH), Institute of Transportation Studies, University of California at Berkeley, California, 1997. Includes Research Reports: UCB-ITS-PRR-95-13, UCB-ITS-PRR-95-16, & UCB-ITS-PRR-95-18.
23. Kanafani A., A. Khattak, M. Crotty and J. Dahlgren, *A planning methodology for intelligent urban transportation systems*. Research Report UCB-ITS-PRR-93-14, Partners for Advanced Transit and Highways (PATH), Institute of Transportation Studies, University of California at Berkeley, California, 1993.
24. Polydoropoulou A., M. Ben-Akiva, A. Khattak and G. Lauprete, *Commuters' normal and shift decisions in unexpected congestion: En route responses to advanced traveler information systems*. Research Report UCB-ITS-PRR-96-21, Partners for Advanced Transit and Highways (PATH), Institute of Transportation Studies, University of California at Berkeley, California, 1996.
25. Khattak A., and A. Kanafani, *PLANiTS: The Case-Based Reasoner as a planning tool for intelligent transportation systems*. Research Report UCB-ITS-PRR-95-23, Partners for Advanced Transit and Highways (PATH), Institute of Transportation Studies, University of California at Berkeley, California, 1995.
26. Khattak A., and A. Kanafani, *PLANiTS: A functional description*. Research Report UCB-ITS-PRR-95-7, Partners for Advanced Transit and Highways (PATH), Institute of Transportation Studies, University of California at Berkeley, California, 1995.
27. Hall R., Y. Yim, A. Khattak, M. Miller, S. Weissenberger, *TravInfo field operational test evaluation plan*. Working papers UCB-ITS-PWP-93-16, UCB-ITS-PWP-94-03, UCB-ITS-PWP-95-4, Partners for Advanced Transit and Highways (PATH), Institute of Transportation Studies, University of California at Berkeley, California, 1993, 1995.
28. Khattak A., H. Al-Deek, and R. Hall, *Concept of an Advanced Traveler Information System testbed for the Bay Area: Research issues*. PATH Technical Note 94-6, Partners for Advanced Transit and Highways (PATH), Institute of Transportation Studies, University of California at Berkeley, California, 1994.

29. Khattak A., A. Kanafani, and E. Le Colletter, *Stated and reported route diversion behavior: Implications on the benefits of ATIS*. Research Report UCB-ITS-PRR-94-13, Partners for Advanced Transit and Highways (PATH), Institute of Transportation Studies, University of California at Berkeley, California, 1994.
30. Khattak A., and A. de Palma, *The impact of adverse weather conditions on the propensity to change travel decisions: A survey of Brussels commuters*. Research Report UCB-ITS-RR-94-12, Institute of Transportation Studies, University of California at Berkeley, California, 1994.
31. Khattak, A., H. Al-Deek and P. Thananjeyan, *A combined traveler behavior and transportation system performance model with ATIS*. Research Report UCB-ITS-PRR-94-06 & Technical Note PATH-95-5, Partners for Advanced Transit and Highways (PATH), Institute of Transportation Studies, University of California at Berkeley, California, 1994.
32. Khattak A., J. Schofer, and M. Wang, *A simple procedure for predicting freeway incident duration*. Research Report UCB-ITS-PRR-94-26, Partners for Advanced Transit and Highways (PATH), Institute of Transportation Studies, University of California at Berkeley, California, 1994.
33. Khattak A., A. Polydoropoulou, and M. Ben-Akiva, *Commuters' normal and shift decisions in unexpected congestion: Pre-trip response to Advanced Traveler Information Systems*. Research Report UCB-ITS-PRR-96-7, Partners for Advanced Transit and Highways (PATH), Institute of Transportation Studies, University of California at Berkeley, California, 1994.
34. Vlahos N., A. Khattak, M. Manheim, and A. Kanafani, *The role of teamwork in a planning methodology for intelligent urban transportation systems*. Working Paper UCB-ITS-PWP-94-08, Partners for Advanced Transit and Highways (PATH), Institute of Transportation Studies, University of California at Berkeley, California, 1994.
35. Miller M., A. Khattak, R. Hall, et al. *Smart Corridor Evaluation Plan: Conceptual Design*. Research Report UCB-ITS-PRR-94-01, Partners for Advanced Transit and Highways (PATH), Institute of Transportation Studies, University of California at Berkeley, California, 1994.
36. Khattak A., *Behavioral impacts of recurring and incident congestion and response to Advanced Traveler Information Systems in the Bay Area: An overview*. Working Paper UCB-ITS-PWP-93-12, Partners for Advanced Transit and Highways (PATH), Institute of Transportation Studies, University of California at Berkeley, California, 1993.
37. Khattak A., and E. Le Colletter, *Stated and reported diversion to public transportation under incident conditions: Implications on the benefits of Multimodal ATIS*. Research Report UCB-ITS-PRR-94-14, Partners for Advanced Transit and Highways (PATH), Institute of Transportation Studies, University of California at Berkeley, California, 1993.
38. Khattak A., H. Noeimi, H. Al-Deek, and R. Hall, *Advanced Public Transportation Systems: A taxonomy and commercial availability*. Research Report UCB-ITS-PRR-93-9, Partners for Advanced Transit and Highways (PATH), Institute of Transportation Studies, University of California at Berkeley, California, 1993.
39. Khattak A., H. Al-Deek, Y. Yim, and R Hall, *Bay Area ATIS Testbed Plan*. Research Report UCB-ITS-PRR-92-1, Partners for Advanced Transit and Highways (PATH), Institute of Transportation Studies, University of California at Berkeley, California, 1992.
40. Khattak A., *Conceptual issues and empirical evidence regarding the effect of information on traveler behavior*. Working Paper TSU Ref. 660, Transport Studies Unit, University of Oxford, 1991.
41. Khattak A., and J. Polak, *Effect of parking information on travellers' knowledge and behavior*. Working Paper TSU Ref. 661, Transport Studies Unit, University of Oxford, 1991.
42. Jovanis P., A. Khattak, and R. Nagui, *Validation of selected signalized intersection capacity factors for small urban areas in Illinois*. Research report FHWA/IL/RC-010, Federal Highway Administration & Illinois Universities Transportation Research Consortium & The Transportation Center, Northwestern University, Illinois, 1990.

8. GRANTS/SPONSORED RESEARCH AND TRAINING PROJECTS

1. Khattak—Principal Investigator, *Innovative Large Truck Speed Enforcement on Interstate Highways*, US Department of Transportation through the Southeastern Transportation Center, University of Tennessee at Knoxville. (UNC-Center for Urban & Regional Studies) \$20,000 for 2005-2006.
2. Khattak—Principal Investigator, *Economic Impact of Traffic Incidents on North Carolina's Interstate Facilities*, NC Department of Transportation. (UNC-Center for Urban & Regional Studies) \$89,679 for 2005-2006.

3. Khattak—Co-Principal Investigator, *Effectiveness of Traveler Information Tools*, NC Department of Transportation. (ITRE-Institute of Transportation Research and Education, North Carolina State University) \$169,995 for 2005-2007.
4. Khattak—Principal Investigator, *Educational Funding for the Carolina Transportation Program at University of North Carolina at Chapel Hill*, US Department of Transportation through the Southeastern Transportation Center, University of Tennessee at Knoxville. (UNC-Center for Urban & Regional Studies) \$340,000 + \$340,000 match, 1999-2004.
5. Khattak—Principal Investigator, *Multi-Year Travel Modeling Project*, NC Department of Transportation. (UNC-Center for Urban & Regional Studies) \$95,000 for 2004-2007.
6. Khattak—Principal Investigator, *Walk, Don't Walk: Resources for Planners and Engineers*, US Department of Transportation, Southeastern Transportation Center, University of Tennessee at Knoxville (UNC-Center for Urban & Regional Studies) \$10,000 + \$10,000—match, 2002-2003.
7. Khattak—Principal Investigator, *Incident Management Assistance Patrols: Assessment and Investment Benefits and Costs*, NC Department of Transportation. (UNC-Center for Urban & Regional Studies) \$99,900, 2002-2003.
8. Khattak—Principal Investigator, *Traditional Neighborhood Development Trip Generation Study*, NC Department of Transportation. (UNC-Center for Urban & Regional Studies) \$125,000 for 2002-2003.
9. Khattak—Principal Investigator, *Intelligent Transportation System Decisions: Developing Case Based Reasoning and Expert Systems*, California Department of Transportation, through PATH Program at University of California, Berkeley and Division of New Technology, Materials and Research. (UNC-Center for Urban & Regional Studies) \$52,800 for 2001-2002 + \$52,800 for 2002-2004. (Total project = \$700,000)
10. Khattak—Principal Investigator, *Which Vehicles are Prone to Rollover and Occupant Injuries: Passenger Cars, Vans, Utility Vehicles or Light Trucks?* US Department of Transportation through Southeastern Transportation Center, University of Tennessee at Knoxville. (UNC-Center for Urban & Regional Studies) \$9,995 + 10,000—match, 2000-2001.
11. Khattak—Principal Investigator, *A Comparison of Rollovers with Non-Rollovers: An analysis of Injury Severity in Large Truck Crashes*, US Department of Transportation through Southeastern Transportation Center, University of Tennessee at Knoxville. (UNC-Center for Urban & Regional Studies) \$9,998 + 10,000—match, 2000-2001.
12. Khattak—Principal Investigator, *Understanding the role of truck-driver, occupational and high-risk roadway factors in truck-involved collisions*, US Department of Transportation through Southeastern Transportation Center, University of Tennessee at Knoxville. (UNC-Center for Urban & Regional Studies) \$80,000 + \$80,000—match, 2001-2002.
13. Khattak—Co-Investigator, *Interstate 40 Value Pricing Study*, US Department of Transportation, Federal Highway Administration. (UNC-Center for Urban & Regional Studies) \$80,000 + \$20,000—match, 2002-2004.
14. Khattak—Consultant, *In-Vehicle Energy and Emission Information System*, National Science Foundation through Civil Engineering Department, North Carolina State University. 2002-2003, \$299,997.
15. Khattak—Co-Investigator, *Consumer demand for personalized demand responsive transit service*, California Department of Transportation through the PATH Program at University of California, Berkeley, \$200,000 for 2001-2003.
16. Khattak—Co-Investigator, *Small Aircraft Transportation Systems (SATS) market analysis study*, NC Division of Aviation & NASA through Research Triangle Institute (UNC-Kenan-Institute for Private Enterprise) \$60,409, 2002-2003.
17. Khattak—Co-Investigator, *Environmental Determinants of Adolescent Obesity*, National Institute of Health, Special Interest Project. (UNC-Carolina Population Center) \$300,000, 2000-2002.

Recent Sponsored Research where Dr. Khattak is a co-investigator.

18. Khattak—Co Investigator, *Testing Associations between Physical Activity and Built Environment*, Robert-Wood Johnson Foundation, (UNC-Center for Urban & Regional Studies) \$473,000, 2003-2005.
19. Khattak—Co Investigator, *Advanced Modeling System for Assessing Long-Term Regional Development Patterns, Travel Behavior, Emissions, and Air Quality*, US Environmental Protection Agency, STAR (Science to Achieve Results) Program, (UNC-Center for Urban & Regional Studies) \$675,000, 2004-2007.
20. Khattak—Principal Investigator, *How Can NCDOT Employ an Improved Policy of Wetland Mitigation Banking to Better Support Its Transportation Mission?* Center for Transportation and Environment, Institute of

- Transportation Research and Education, North Carolina State University; to support Jeff Masten's Masters' Project work. (UNC-Center for Urban & Regional Studies) \$15,000, 1999-2000.
21. Khattak—Principal Investigator, *Multivehicle Roadway Crashes: The Role of Information*, US Department of Transportation through Southeastern Transportation Center, University of Tennessee at Knoxville. (UNC-Center for Urban & Regional Studies) \$9,981 + 10,000—match, 2000-2001.
 22. Khattak—Co-Investigator, *Analysis of Fatal Traffic Crashes in North Carolina and Related Countermeasures*, Pooled fund study—North Carolina Department of Transportation and Federal Highway Administration. (UNC-Highway Safety Research Center) \$33,444, 1999-2000; + \$50,144, 2000-2001.
 23. Khattak—Principal Investigator, *Secondary Road Accidents and Counter-measures*, US Department of Transportation through Southeastern Transportation Center, University of Tennessee at Knoxville. (UNC-Center for Urban & Regional Studies) \$45,000+ \$45,000—match 1996-1997; \$37,000 + \$37,000—match, 1997-1999.
 24. Khattak—Principal Investigator, *A Planning Methodology for Intelligent Urban Transportation Systems*, California Department of Transportation, through PATH Program at University of California, Berkeley and Division of New Technology, Materials and Research. (UNC-Center for Urban & Regional Studies) \$11,200, 1996-1997.
 25. Khattak—Principal Investigator, *Integrating Spatial Information Technologies in Planning and Policy Instruction, Funding for Instructional Technology*, UNC-Chancellor's Task Force on Instructional Technology, University of North Carolina, Chapel Hill, \$46,977, 1996-1997.
 26. Khattak—Principal Investigator, *PLANiTS: Methodological Development and Exploration of Financial Support*, UNC-Junior Faculty Development Award. (UNC-Department of City & Regional Planning), \$5,000, 1997-1998.
 27. Khattak—Principal Investigator, *California Advanced Public Transportation Systems: State of the Art Report on Availability and Use*, California Department of Transportation, through PATH Program at University of California, Berkeley and Division of New Technology, Materials and Research. (UNC-Center for Urban & Regional Studies), \$39,200 1995-1996.
 28. Khattak—Principal Investigator, *Understanding behavioral response to travel information*, Volpe National Transportation Center through Massachusetts Institute of Technology, (Institute of Transportation Studies, University of California at Berkeley), \$5,500, 1995.
 29. Khattak—Co-Investigator, *Framework for Analyzing Transportation Networks with Traveler Information Systems*, California Department of Transportation, through PATH Program at University of California, Berkeley and Division of New Technology, Materials and Research. \$201,369, 1992-1995.
 30. Khattak—Co-Investigator, *Advanced Traveler Information Technologies for Public Transportation Systems and High Occupancy Vehicles*, California Department of Transportation, through PATH Program at University of California, Berkeley and Division of New Technology, Materials and Research. \$199,211, 1992-1995.
 31. Khattak—Co-Investigator, *Toward a Planning Methodology for Intelligent Urban Transportation Systems*, California Department of Transportation, through PATH Program at University of California, Berkeley and Division of New Technology, Materials and Research. \$401,879, 1992-1995.
 32. Khattak—Co-Investigator, *Design of Evaluation Plan for TravInfo*, California Department of Transportation, through PATH Program at University of California, Berkeley and Division of New Technology, Materials and Research. \$450,000, 1992-1996.
 33. Khattak—Co-Investigator, *Design of Evaluation Plan for Smart Corridor*, Los Angeles County Transportation Commission (LACTC), Los Angeles, and California Department of Transportation through the California PATH Program, \$42,000, 1992-1993.

9. SERVICE

While a major portion of my University-assigned responsibilities are for instruction and research, I have provided a wide range of services.

SERVICE TO SCIENTIFIC AND PROFESSIONAL ORGANIZATIONS

Editorship of Journals and Review

Editor-in-Chief, [Journal of Intelligent Transportation Systems](#), Taylor & Francis Publishers (determine aims & scope, manage reviews, help in production & marketing; free issue is available on-line, but requires registration)

2003-2006

Associate Editor, *Journal of Intelligent Transportation Systems*,

Taylor & Francis Publishers 2000-2003
Reviewer for transportation and planning research journals:

- Transportation Research Board, National Academies, Washington, D.C.
- Transportation Research, Parts A, B & C, Pergamon Press, Oxford, England.
- Transportation Science, Operations Research Society of America.
- Journal of Intelligent Transportation Systems, Taylor & Francis Publishers, USA.
- World Development, Elsevier Journals, USA.

Review panels for government agencies or educational institutions

- California Department of Transportation 1991-2006
- University of California at Berkeley, PATH Program 1995-2006
- University of California at Berkeley, University of California Trans Center 1998-2003

Professional Memberships

- Member, [Intelligent Transportation Systems Committee](#),
Transportation Research Board, National Academies, Washington, D.C. 2004-
- Member, [User Information Systems](#) Committee,
Transportation Research Board, National Academies, Washington, D.C. 1993-2006
- Co-Chair, Subcommittee on Advanced Traveler Information Systems,
User Information Systems Committee, Transportation Research Board,
National Academies, Washington, D.C. 2000-2006
- Member, [Council of University Transportation Centers](#), 1998-2006
(CUTC represents major transportation research and education centers in the US.
Dr. Khattak initiated UNC-CH's membership in CUTC) 1998-2006
- Member, SAE—[Society of Automotive Engineers](#) 2001-2002

DEPARTMENTAL SERVICE

Associate Department Chair—Technology, Planning, UNC-Chapel Hill 2002-2003
Director, Transportation Specialization, University of North Carolina-Chapel Hill 1995-2006
Re-Developed [Carolina Transportation Program](#) (from scratch) 1996-1998
Director, Carolina Transportation Program (funding, research production,
marketing, newsletters (1, 2), brochure, faculty and student participation) 1998-2006
Recruited & mentored a transportation faculty member 2000-2006
High levels of Independent Studies to mentor students (PLAN 315) 2000-2006
Elevated transportation to an independent specialization in DCRP 2002-2006

SELECTED UNIVERSITY SERVICE

Founding member, North Carolina Transportation Consortium (UNC-system) 2003-2005
Re-initiated a dual graduate degree in Transportation Planning and Engineering,
given by UNC-CH and NCSU 2003-2005
Member, Carolina North Infrastructure Advisory Committee 2003
Member, Carolina North Transportation subcommittee 2003
Reviewer for campus-wide transportation survey (analysis by DCRP student) 2003
Pedestrian and bicycle committee (analysis of crashes by DCRP student) 2000-2003
Faculty fellow, [Center for Urban & Regional Studies](#) 1998-2006
Faculty fellow, [Highway Safety Research Center](#) 2003-2006
Affiliated faculty, [Kenan Institute](#)
for Private Enterprise-Logistics & Digital Strategy 2002-2004

SERVICE TO FEDERAL & STATE AGENCIES AND PRIVATE SECTOR

- Helped US Department of Transportation by participating in workshop on Research
and Development of Technology & Innovation, Washington D.C. 2003

- Helped [North Carolina Department of Transportation](#) understand planning and policy implications of 1) traditional neighborhood developments 2) safety and 3) intelligent transportation systems 2002-2004
- Developer of PLANiTS, which manifested in the development of a popular Intelligent Transportation Systems web site, known as [ITS Decision](#) for the California DOT. Caltrans has invested \$700,000 in developing the website, which is visited by planners and engineers from around the world 1996-2006
- Surveys of transit technology vendors have helped transit agencies obtain information on available intelligent transportation systems technologies 1998-2000
- Behavioral research has helped businesses involved in intelligent transportation systems assess demand and willingness to pay for dynamic travel information 1991-2006

SELECTED CONSULTING ACTIVITIES

Worked as a consultant with:

- [American Transportation Research Institute](#), Alexandria, VA (trucking safety) 2004
- [Research Triangle Institute](#), Research Triangle Park, NC (small aircrafts) 2002
- [Bellomo-McGee, Inc.](#) & Dr. Forrest Council (vehicle safety) 2002-2004
- [National Cooperative Highway Research Program](#)—NCHRP (vehicle safety) 2002
- [University of California at Berkeley](#) (traveler behavior) 1995-2003
- [Federal Highway Administration](#) (pedestrian safety) 1998