

Albert Gan, Ph.D.
Professor, Department of Civil and Environmental Engineering
Florida International University
10555 West Flagler Street, EC 3674, Miami, FL 33174

(305) 348-3116 (Tel)
(305) 348-2802 (Fax)
gana@fiu.edu
www.cee.fiu.edu

EDUCATION

Ph.D.	University of Florida	Civil Engineering (Transportation)	1996
M.E.	University of Florida	Industrial and Systems Engineering	1989
B.S.	University of Florida	Industrial and Systems Engineering	1987

PROFESSIONAL EXPERIENCE

2012-Present	<i>Professor</i> , Civil and Environmental Engineering, FIU
2012-2017	<i>Representative</i> , National Center for Transportation Systems Productivity & Management (NCTSPM), University Transportation Center (UTC), FIU
2004-Present	<i>Deputy Director</i> , Lehman Center for Transportation Research, FIU
2004-2012	<i>Associate Professor</i> , Civil and Environmental Engineering, FIU
1999-2001	<i>Assistant Director</i> , Lehman Center for Transportation Research, FIU
1999-2004	<i>Assistant Professor</i> , Civil and Environmental Engineering, FIU
1996-1998	<i>Assistant in Engineering</i> , Civil Engineering, UF
1990-1996	<i>Graduate Research Assistant</i> , Civil Engineering, UF
1988-1989	<i>Graduate Teaching Assistant</i> , Industrial and Systems Engineering, UF

UNIVERSITY APPOINTMENTS

2017-Present	<i>Member</i> , Budget Committee, College of Engineering & Computing, FIU
2015-Present	<i>Chair</i> , Faculty Awards Committee, College of Engineering & Computing, FIU
2015-Present	<i>Chair</i> , Department Tenure and Promotion (T&P) Committee, FIU
2015-Present	<i>Senator (Alternate)</i> , Faculty Senate, FIU
2014-2015	<i>Member</i> , Environment and Planning Committee, Faculty Senate, FIU
2014-2014	<i>Member</i> , Department Third-Year Tenure Review Committee, FIU
2013-2014	<i>Chair</i> , Department Search and Screen Committee for Transportation Faculty, FIU
2013-2015	<i>Senator</i> , Faculty Senate, FIU
2013-2014	<i>Chair</i> , Department Strategic Planning Committee, FIU
2012-2015	<i>Member</i> , Faculty Awards Committee, College of Engineering & Computing, FIU
2012-2012	<i>Member</i> , Search and Screen Committee for Multiple CEE Positions, FIU
2011-2014	<i>Member</i> , Computer Advisory Committee, College of Engineering & Computing, FIU
2010-2012	<i>Member</i> , Research Advisory Committee, College of Engineering & Computing, FIU
2010-2011	<i>Member</i> , Department Search and Screen Committee for Transportation Faculty, FIU
2010-2011	<i>Chair</i> , Department Search and Screen Committee for Two Instructors, FIU
2010-2010	<i>Member</i> , Department Non-Tenure Promotion Committee, FIU
2009-2011	<i>Member</i> , Strategic Planning Think Tank, College of Engineering & Computing, FIU
2009-2011	<i>Member</i> , Faculty Council of Governance, College of Engineering & Computing, FIU
2009-2011	<i>Member</i> , University Graduate Council, Faculty Senate, FIU
2009-2010	<i>Member</i> , Department Chair Search and Screen Committee, FIU
2008-2010	<i>Member</i> , Graduate Program Advisory Committee (GPAC), FIU
2008-2009	<i>Member</i> , Department Buyout and Workload Committee, FIU
2007-2009	<i>Member</i> , Department Strategic Planning Committee, FIU
2004-Present	<i>Dissertation Advisor</i> , University Graduate School, FIU

2004-2008 *Member*, Undergraduate Program Advisory Committee (UPAC), FIU
2004-2005 *Member*, Computer Advisory Committee, College of Engineering, FIU
2004-2005 *Member*, Transportation Faculty Search and Screen Committee, FIU
2004-2005 *Member*, Faculty Council of Governance, College of Engineering, FIU
2004-2004 *Member*, Department Coordinator Search and Screen Committee, FIU
2003-Present *Graduate Faculty*, University Graduate School, FIU
2003-2005 *Graduate Program Director*, Graduate Programs for Civil Engineering, FIU
2003-2004 *Member*, College of Engineering Strategic Planning Committee, FIU
2003-2003 *Undergraduate Program Director*, Undergraduate Program for Civil Engineering, FIU
2003-2003 *Chair*, Undergraduate Program Advisory Committee (UPAC), FIU
2003-2003 *Chair*, Subcommittee on Program Review (Transportation Engineering), FIU
2002-2004 *Associate Director*, Lehman Center for Transportation Research, FIU
2002-2004 *Member*, Department Newsletter Committee, FIU
2002-2002 *Chair*, Department Brochure Committee, FIU
2002-2002 *Chair*, A&P Transportation Scholarship Committee, FIU
2000-2003 *Member*, ABET Department Committee, FIU
1999-2001 *Editor*, CEE Department Newsletter (four volumes), FIU
1999-1999 *Chair*, Combined BS/MS Degree Program Committee, FIU

PROFESSIONAL SERVICE AND MEMBERSHIPS

2014-2014 *Session Chair*, Operations and Management, UTC Conference for the Southeast Region.
2013-2013 *Session Chair*, Safety Analysis and Evaluation, CATSS-UTC Safety Symposium.
2012-2013 *Technical Chair and Editor*, 26th Annual Conference of the International Chinese Transportation Professional Association (ICTPA). Tampa, Florida.
2012-2012 *Session Chair*, Bus Transportation and Equipment Management, 2012 Annual Transportation Research Forum, Tampa, Florida.
2011-2012 *Member*, Organizing Committee, 14th TRB Conference on Transportation Planning Applications, Columbus, Ohio.
2011-2011 *Organizer*, South Florida Meeting, International Chinese Transportation Professional Association (ICTPA), Florida Chapter.
2011-2011 *Session Chair*, Demand Modeling, 16th Conference of the Hong Kong Society for Transportation Studies (HKSTS), December 2011.
2011-2011 *Session Chair*, GIS Planning Applications, 13th TRB Conference on Transportation Planning Applications, Reno, Nevada.
2010-2011 *Member*, Organizing Committee, 13th TRB Conference on Transportation Planning Applications, Reno, Nevada.
2010-2013 *Vice President*, International Chinese Transportation Professional Association (ICTPA), Florida Chapter.
2009-2009 *Session Chair*, Federal Modeling Trends, 12th TRB Conference on Transportation Planning Applications, Houston, Texas.
2008-2009 *Member*, Organizing Committee, 12th TRB Conference on Transportation Planning Applications, Houston, Texas.
2007-Present *Research Proposal/Report Reviewer* for University Transportation Centers (UTCs).
2007-2016 *Member*, Committee on Emerging and Innovative Public Transport and Technologies (AP020), Transportation Research Board, National Research Council.
2007-2007 *Session Chair*, Transit Matters, 11th TRB Conference on Transportation Planning Applications, Daytona Beach, Florida.
2006-2013 *Member*, Committee on Transportation Planning Applications (ADB50), Transportation Research Board, National Research Council.

- 2006-2012 *Member*, Data Committee, Florida Model Task Force (MTF).
- 2006-2007 *Member*, Organizing Committee, 11th TRB Conference on Transportation Planning Applications, Daytona Beach, Florida.
- 2006-Present *Member*, Committee for Intelligent Traffic Signal Operations, Institute of Transportation Engineers.
- 2005-2005 *Member*, ITS Florida Academic Task Force, ITS Florida.
- 2003-Present *Member*, Florida Transit Planning Network (FTPN), Florida Public Transportation Association.
- 1999-2008 *Faculty Advisor*, FIU Institute of Transportation Engineers (ITE) Student Chapter.
- 1998-Present *Friend*, TRB Committee on Traffic Signal Systems (AHB25) and Highway Capacity and Quality of Service (A3A10), National Research Council.
- 1990-2012 *Member*, Institute of Transportation Engineers (ITE).
- 2000-Present *Paper Reviewer* for:
 Journal of the Transportation Research Board
 ASCE Journal of Transportation Engineering
 ASCE Journal of Computing in Civil Engineering
 Journal of Public Transportation
 IEEE Transactions on Systems, Man, and Cybernetics
 IEEE Transactions on Intelligent Transportation Systems
 Transportation Letters
 Transportation Research
 Journal of Computer-Aided Civil and Infrastructure Engineering
 Journal of Transportation Safety and Security
 International Journal of Digital Earth
- 1999-2010 *Software Reviewer* for U.S. DOT and the McTrans Center

HONORS AND AWARDS

1. *Top Seven PI in New Research Funding in College of Engineering and Computing*, 2015-2016.
2. *Top Five PI in New Research Funding in College of Engineering and Computing*, 2014-2015.
3. *Top Four PI in New Research Funding in College of Engineering and Computing*, 2013-2014.
4. *Top Nine PI in New Research Funding in College of Engineering and Computing*, 2012-2013.
5. *Top Three PI in New Research Funding in College of Engineering and Computing*, 2011-2012.
6. *Excellence in Research and Creative Activities Award*, FIU Faculty Senate, 2012.
7. *Top Scholar*, FIU President and Provost Offices, 2012.
8. *Certificate of Appreciation for Outstanding Service*, TRB Committee ADA30, 2012.
9. *Top Three PI in New Research Funding in College of Engineering and Computing*, 2010-2011.
10. *Top Three PI in New Research Funding in College of Engineering and Computing*, 2009-2010.
11. *US DOT Transportation Planning Excellence Award (Plaque)*, for “Integrated National Transit Database Analysis System (INTDAS)”, 2010.
12. *Prudential Davis Productivity Award*, for “Road Ranger Driver Information System”, 2010.
13. *Certificate of Appreciation for Outstanding Service*, TRB Committee ADB50, 2010.
14. *Top Five PI in New Research Funding in College of Engineering and Computing*, 2008-2009.
15. *Letter of Appreciation*, FDOT Secretary Stephanie Kopelousos, 2008.
16. *Recognition for Outstanding Service (Plaque)*, TRB Committee ADB50, 2008.
17. *Certificate of Recognition (Plaque)*, FIU ITE Student Chapter, 2007, 2008.
18. *Dean’s Doctoral Mentorship Award*, College of Engineering and Computing, FIU, 2007.
19. *Certificate of Appreciation*, Dean’s Office, College of Engineering, FIU, 2003.
20. *Excellence in Research Award*, FIU Faculty Senate, 2003.
21. *FIU Provost’s Summer Research Grant*, 2001.
22. *Certificate of Recognition (Plaque)*, FIU ITE Student Chapter, 2000.

23. *Eno Scholar*, Eno Transportation Foundation, 1996.
24. *International Student Academic Award*, University of Florida, 1995.
25. *President's Recognition of Outstanding Students Award*, University of Florida, 1995.
26. *Outstanding Student of the Year Award*, U.S. Department of Transportation, 1994.
27. *Best Student Paper Award*, International Institute of Transportation Engineers, 1993.
28. *Best Student Paper Award*, District 10 Institute of Transportation Engineers, 1992.

STUDENT AWARDS

1. *Faculty Advisor for Daniel B. Fambro International ITE Best Student Paper Awards:*
 - Chengjun Zhan, "Geocoding and Analysis of Freeway Service Patrol Data," *ITE Journal*, Vol. 75, No. 11, pp. 16-21, 2005 (co-advised with Dr. Mohammed Hadi).
 - Ayman Elbermawy, "Development of Vehicular Volume Guidelines for Two-Way Versus Four-Way Stop Controls," *ITE Journal*, Vol. 74, No. 11, pp. 16-22, 2004.
 - Qiong Shen, "Minimum Merging Section Lengths for Triple Left-Turn Lanes with Downstream Lane Reductions," *ITE Journal*, Vol. 71, No. 3, pp. 40-45, 2001.
2. *Faculty Advisor for District 10 ITE Best Student Paper Awards:*
 - Jinyan Lu (first place), "Comparison of Local and Default Safety Performance Functions for *SafetyAnalyst* Applications," 2012.
 - Wanyang Wu (first place), "An Optimization Model for Selecting Bus Stops for ADA Improvements," 2008.
 - Xuesong Zhu (first place), "Simulation Evaluation of Four-Hour-Volume Traffic Signal Warrant," 2006.
 - Chengjun Zhan (first place), "Geocoding and Analysis of Freeway Service Patrol Data," 2004.
 - Ayman Elbermawy (first place), "Development of Vehicular Volume Guidelines for Two-Way Versus Four-Way Stop Controls," 2003.
 - Guangwei Zhou (second place), "Performance of Transit Signal Priority with Queue Jumper Lanes," 2003.
 - Huanyu Yue (first place). "Development of Operational Performance and Decision Models for Arterial Bus Lanes," 2002.
 - Sanhita Lahiri (second place), "Using Simulation to Estimate Speed Improvements from Simple Ramp Metering at On-Ramp Junctions," 2001.
 - Qiong Shen (first place), "Minimum Merging Section Lengths for Triple Left-Turn Lanes with Downstream Lane Reductions," 2000.
3. *Faculty Advisor for International ITE Best Student Chapter Awards:*
 - 2007-2008 Best International ITE Student Chapter Award
 - 2006-2007 Best International ITE Student Chapter Award
 - 2004-2005 Best International ITE Student Chapter Award
 - 2003-2004 Best International ITE Student Chapter Award
 - 2000-2001 Best International ITE Student Chapter Award
4. *Faculty Advisor for Best District 10 ITE Student Chapter Awards:*
 - 2007-2008 Best District 10 ITE Student Chapter Award
 - 2006-2007 Best District 10 ITE Student Chapter Award
 - 2004-2005 Best District 10 ITE Student Chapter Award
 - 2003-2004 Best District 10 ITE Student Chapter Award

- 2002-2003 Best District 10 ITE Student Chapter Award
 - 2001-2002 Best District 10 ITE Student Chapter Award
 - 2000-2001 Best District 10 ITE Student Chapter Award
 - 1999-2000 Best District 10 ITE Student Chapter Award
5. *Faculty Advisor for District 10 ITE Best Student Presentation Awards:*
- Jie Bian and Peng Zhu (first place), “Simulation of I-95 Ramp Metering Project,” Presented at the District 10 ITE Annual Meeting, 2006.
 - Diego Sandoval (second place), “Florida Average Vehicle Occupancy Rates,” Presented at the District 10 ITE Annual Meeting, 2004.
 - Wendie C. James (first place), “Crash Reduction Factor Analysis System Hub (CRASH),” Presented at the District 10 ITE Annual Meeting, 2003.
 - Guangwei Zhou (first place), “Performance of Transit Signal Priority with Queue Jumper Lanes,” Presented (poster) at the District 10 ITE Annual Meeting, 2003.
 - Rax Jung (second place), “Calibration of Peak-to-Daily Ratio for Feedback Loop in FSUTMS,” Presented (poster) at the District 10 ITE Annual Meeting, 2001.
6. *Faculty Advisor for Gold Coast ITE Student Essay Awards:*
- Tao Wang (second place), “Re-standardizing FSUTMS,” Spring 2009.
 - Naresh Machavarapu (first place), “Challenges with using the Traffic Simulation as an On-Line Decision Support Tool in Real-Time Traffic Management,” Fall 2008 (co-advised with Dr. Mohammed Hadi).
 - Jinyan Lu (second place), “Emergency Evacuation Planning for Planned Special Events,” Spring 2008.
 - Wanyang Wu (third place), “Making a Case for Better Allocation of Resources for ADA Improvements at Bus Stops,” Spring 2008 (third place).
 - Lei Cai (Third Place), “Transit Peer Selection Process”, Fall 2007
 - Aaron Zhou (first place), “Queue Jumper Lanes: A Strategy for Improving Transit Performance,” Spring 2005.
 - Ian John (first place), “An Economical Strategy to Improve Freeway Congestion,” Fall 2004.
7. *Faculty Advisor for Competitive Student Scholarship and Fellowship Awards:*
- Dissertation Year Fellowship Award (Jinyan Lu), FIU Graduate School, 2012-2013
 - Bill McGrath Scholarship Award (Jinyan Lu), Florida Section ITE, 2012
 - Helene M. Overly Memorial Scholarship (Jinyan Lu), WTS, 2011
 - Bill McGrath Scholarship Award (Wanyang Wu), Florida Section ITE, 2007
 - Dissertation Year Fellowship Award (Aaron Zhou), FIU Graduate School, 2005-2006
 - Bill McGrath Scholarship Award (Chengjun Zhan), Florida Section ITE, 2006
 - Eno Transportation Scholar (Joan Shen), Eno Transportation Foundation, 2004
 - Presidential Fellowship Award (Jie Bian), FIU Graduate School, 2003-2005
 - Presidential Fellowship Award (Peng Zhu), FIU Graduate School, 2002-2004
 - Presidential Fellowship Award (Aaron Zhou), FIU Graduate School, 2002-2004
 - Bill McGrath Scholarship Award (Joan Shen), Florida Section ITE, 2000
 - Gates Millennium Scholars Award (Joan Shen), Gates Foundation, 2000-2003
8. *Faculty Advisor for ITE Student Chapter Student Organization Awards:*
- Most Professional Society, College of Engineering, FIU, 2004
 - Best ITE Transportation Career Brochure, International ITE, 2002
 - Outstanding Community Service Award, College of Engineering, FIU, 2002

- Outstanding Engineering Organization, Engineering Student Council, FIU, 2001, 2002, 2008

SPONSORED RESEARCH PROJECTS

As Principal Investigator (none awarded through university lobbying)

1. *Effectiveness of Stationary Police Vehicles with Blue Lights in Freeway Work Zones*, Florida Department of Transportation, \$261,654, 2017-2017 (Co-PIs: Priyanka Alluri, Wallied Orabi, and Wanyang Wu).
2. *Technical and Research Support for ITS and Traffic Engineering Projects, Work Order 16*, ITS Division, District 6, Florida Department of Transportation, \$47,000, 2017-2017.
3. *FSUTMS Portal Improvements and Maintenance*, Transportation Statistics Office, Florida Department of Transportation, \$28,600, 2017-2017.
4. *Feasibility of Using Video Image Detectors for Ramp Signal Operations and Performance Monitoring*, Florida Department of Transportation, \$175,000, 2016-2018 (Co-PIs: Wanyang Wu, Priyanka Alluri).
5. *ITS Research, Computer, and Miscellaneous (Work Order 8)*, Florida Department of Transportation District 4, \$150,000, 2016-2017.
6. *STRIDE Transportation Research Internship Program (TRIP)*, STRIDE University Transportation Center (UTC), \$4,367, 2016-2016 (Co-PI: Priyanka Alluri).
7. *Development of 2017 Florida Transit Information System*, Public Transit Office, Florida Department of Transportation, \$101,837, 2016-2017.
8. *Technical and Research Support for ITS and Traffic Engineering Projects, Work Order 14*, ITS Division, District 6, Florida Department of Transportation, \$62,704, 2016-2017 (Co-PI: Wanyang Wu and Priyanka Alluri).
9. *Technical and Research Support for ITS and Traffic Engineering Projects, Work Order 13*, ITS Division, District 6, Florida Department of Transportation, \$117,293, 2016-2017 (Co-PI: Wanyang Wu and Priyanka Alluri).
10. *Technical and Research Support for ITS and Traffic Engineering Projects, Work Order 12*, ITS Division, District 6, Florida Department of Transportation, \$70,003, 2016-2017 (Co-PI: Maria Guevara).
11. *Transportation Engineering Technical and Research Support Services (Work Order 1)*, City of Doral, \$100,000, 2016-2017 (Co-PI: Priyanka Alluri).
12. *2016 Data Update and Maintenance for Rural INTDAS System*, Rural Transit Assistance Program, \$20,812, 2016-2017 (Co-PI: Kaiyu Liu).
13. *ITS Research, Computer, and Miscellaneous (Work Order 7)*, Florida Department of Transportation District 4, \$150,000, 2015-2016.
14. *Technical and Research Support for ITS and Traffic Engineering Projects, Work Order 11*, ITS Division, District 6, Florida Department of Transportation, \$75,000, 2015-2016.
15. *Technical and Research Support for ITS and Traffic Engineering Projects, Work Order 10*, ITS Division, District 6, Florida Department of Transportation, \$125,000, 2015-2016.
16. *Development of 2016 Florida Transit Information System*, Public Transit Office, Florida Department of Transportation, \$114,507, 2015-2016.
17. *2015 Data Update and Maintenance for Rural INTDAS System*, National Rural Transit Assistance Program, \$18,141, 2015-2016.
18. *ITS Research, Computer, and Miscellaneous (Work Order 6)*, Florida Department of Transportation District 4, \$150,000, 2015-2015.
19. *FSUTMS Portal Improvements and Maintenance*, Systems Planning Office, Florida Department of Transportation, \$58,149, 2014-2016.
20. *Technical and Research Support for ITS and Traffic Engineering Projects, Work Order 5*, ITS Division, District 6, Florida Department of Transportation, \$300,000, 2014-2015.

21. *Development of 2015 Florida Transit Information System (FTIS)*, Public Transit Office, Florida Department of Transportation, \$53,635, 2014-2015 (Co-PI: Fabian Cevallos).
22. *Updating and Improving Methodology for Prioritizing Highway Projects on the Strategic Intermodal System (SIS)*, Systems Planning Office, Florida Department of Transportation, \$150,000, 2014-2015 (Co-PIs: Priyanka Alluri, Kirolos Haleem, and Kaiyu Liu).
23. *Pedestrian Safety Campaign Support and Data Collection of Driver and Pedestrian Behavior at Rectangular Rapid Flashing Beacon Locations*, District 6 Traffic Operations, Florida Department of Transportation, \$30,000, 2014-2014 (Co-PI: Priyanka Alluri).
24. *Tier I University Transportation Center (UTC) Program Support*, U.S. Department of Transportation via National Center for Transportation Systems Productivity and Management (NCTSPM), \$131,848, 2014-2016 (Co-PIs: Mohammed Hadi, Priyanka Alluri, Berrin Tansel, Fabian Cevallos, Xia Jin, Kirolos Haleem, and Yan Xiao).
25. *ITS Research, Computer, and Miscellaneous (Work Order 5)*, Florida Department of Transportation District 4, \$75,000, 2014-2015.
26. *Evaluation of Signage Alternatives for Express Lane Facilities*, U.S. Department of Transportation via National Center for Transportation Systems Productivity and Management (NCTSPM), \$85,000, 2014-2015 (Co-PIs: Priyanka Alluri and Kirolos Haleem).
27. *ITS Research, Computer, and Miscellaneous (Work Order 4)*, Florida Department of Transportation District 4, \$75,000, 2014-2014.
28. *Incorporation of 2007-2012 Rural NTD Data into Florida Transit Information System (FTIS)*, National Rural Transit Assistance Program, \$99,136, 2014-2015.
29. *Extraction of Basic Roadway Information for Non-State Roads in Florida*, State Safety Office, Florida Department of Transportation, \$120,000, 2013-2014 (Co-PI: Kirolos Haleem).
30. *Feasibility of a Web-Based System for Police Report Review and Information Recording*, State Safety Office, Florida Department of Transportation, \$90,000, 2013-2014 (Co-PI: Priyanka Alluri).
31. *Technical and Research Support for ITS and Traffic Engineering Projects, Work Order 2 (new agreement)*, ITS Division, District 6, Florida Department of Transportation, \$200,000, 2013-2014.
32. *Crash Prediction Method for Freeway Facilities with HOV and HOT Lanes*, Florida Department of Transportation (subcontract from University of Florida), \$83,854, 2013-2014 (Co-PI: Priyanka Alluri).
33. *Analysis and Evaluation of Transit Data Using Florida Transit Information System (FTIS)*, Public Transit Office, Florida Department of Transportation, \$59,320, 2013-2014.
34. *FSUTMS Portal Improvements and Maintenance*, Systems Planning Office, Florida Department of Transportation, \$19,133, 2013-2013.
35. *Continued Web Application Support for FDOT Office of Policy Planning*, Systems Planning Office, Florida Department of Transportation, \$25,000, 2013-2014.
36. *ITS Research, Computer, and Miscellaneous (Work Order 3)*, Florida Department of Transportation District 4, \$80,000, 2013-2014.
37. *Digital Advertising Billboards and Driver Distraction*, in Partnership with University of Alabama at Birmingham, U.S. Department of Transportation via National Center for Transportation Systems Productivity and Management (NCTSPM), \$43,000, 2012-2013 (Co-PIs: Kirolos Haleem and Priyanka Alluri).
38. *Roundabouts and Access Management*, Florida Department of Transportation (subcontract from University of Florida), \$70,000, 2012-2014 (Co-PIs, Priyanka Alluri and Kirolos Haleem).
39. *Technical and Research Support for ITS and Traffic Engineering Projects, Work Order 3*, ITS Division, District 6, Florida Department of Transportation, \$200,000, 2012-2013.
40. *Comprehensive Study to Reduce Pedestrian Crashes in Florida*, Safety Office, Florida Department of Transportation, \$150,000, 2012-2013 (Co-PIs: Priyanka Alluri and Kirolos Haleem).

41. *Synthesis of the Advance in and Application of Fractal Characteristics of Traffic Flow*, Florida Department of Transportation, \$40,000, 2012-2013 (Co-PIs: Tao Li and Kirolos Haleem).
42. *Development of Florida Transit Information System Version 2013*, Public Transit Office, Florida Department of Transportation, \$38,436, 2012-2013.
43. *Tier I University Transportation Center (UTC) Program Support*, U.S. Department of Transportation via National Center for Transportation Systems Productivity and Management (NCTSPM), \$200,000, 2012-2014 (Co-PIs: Mohammed Hadi and David Shen).
44. *ITS Research, Computer, and Miscellaneous Support*, District 4 Florida Department of Transportation, \$100,000, 2012-2013.
45. *Analysis of Movable Bus Stop Boarding and Alighting Areas*, Public Transit Office, Florida Department of Transportation, \$110,667, 2012-2013 (Co-PIs: Fabian Cevallos, Nakin Suksawang, and Priyanka Alluri).
46. *INTDAS Peer Selection Database Update*, Citizen's Independent Transportation Trust (CITT), \$20,048, 2012-2012.
47. *Florida DOT Transportation Plan Web Support Services*, Systems Planning Office, Florida Department of Transportation (via Cambridge Systematics, Inc.), \$20,000, 2011-2012.
48. *FSUTMSonline and Standard Reports Support*, Systems Planning Office, Florida Department of Transportation (via PB America), \$20,000, 2011-2012.
49. *In-Service Performance Evaluation (ISPE) for G4 (IS) Strong-Post W-Beam Guardrail and Median Cable Barrier*, Roadway Design Office, Florida Department of Transportation, \$284,796, 2011-2012 (Co-PIs: Kirolos Haleem and Priyanka Alluri).
50. *Before and After Safety Study of Roadways Where New Medians Have Been Added*, Systems Planning Office, Florida Department of Transportation, \$225,000, 2011-2012 (Co-PI: Kirolos Haleem and Priyanka Alluri).
51. *Development of Florida Transit Information System (FTIS) 2012*, Public Transit Office, Florida Department of Transportation, \$79,858, 2011-2012.
52. *Best Practices in the Use of Hybrid Static-Dynamic Signs*, Florida Department of Transportation, \$150,000, 2011-2012 (Co-PI: Kirolos Haleem and Fabian Cevallos).
53. *Technical and Research Support for ITS and Traffic Engineering Projects, Work Order 2*, ITS Division, District 6, Florida Department of Transportation, \$200,000, 2011-2012.
54. *ITS Research and Technical Support*, ITS Office, District 4 Florida Department of Transportation, \$817,000 (total of multiple work orders), 2005-2012.
55. *An Integrated Database and Analysis System for the Evaluation of Freeway Corridors for Potential Ramp Signaling*, Florida Department of Transportation, \$180,000, 2010-2011 (Co-PI: Chengjun Zhan).
56. *Technical and Research Support for ITS and Traffic Engineering Projects, Work Order 1*, ITS Division, District 6, Florida Department of Transportation, \$200,000, 2010-2011.
57. *Standardization of Crash Analysis in Florida*, State Safety Office, Florida Department of Transportation, \$142,726, 2010-2011.
58. *Development of Florida Transit Information System Version 2011*, Public Transit Office, Florida Department of Transportation, \$140,042, 2010-2011.
59. *ITS Technical and Research Support*, ITS Division, District 6 Florida Department of Transportation, \$1,070,000 (total of multiple work orders), 2004-2010.
60. *Development of a Web Portal for 2060 Florida Transportation Plan*, Systems Planning Office, Florida Department of Transportation (through Cambridge Systematics, Inc.), \$30,000, 2010-2012.
61. *Preparing Florida for SafetyAnalyst Deployment*, State Safety Office, Florida Department of Transportation, \$298,266, 2010-2011.
62. *FSUTMS Online and Standard Reports Support and Enhancements*, Systems Planning Office, Florida Department of Transportation (through Cambridge Systematics, Inc.), \$50,000, 2009-2010.

63. *Development of Web FTIS Versions 2009 and 2010*, Public Transit Office, Florida Department of Transportation, \$210,000, 2009-2010.
64. *Enhancing CRASH to Support New HSIP Reporting Requirements*, State Safety Office, Florida Dept. of Transportation, \$210,000, 2008-2009 (Co-PIs: Haifeng Wang and Kaiyu Liu).
65. *Continued Development and Maintenance of FSUTMS Web Portal*, Systems Planning Office, Florida Department of Transportation (through Cambridge Systematics, Inc.), \$65,000, 2008-2009.
66. *Development of a Data Framework for FSUTMS*, Systems Planning Office, Florida Department of Transportation, \$205,000, 2008-2009 (Co-PI: Kaiyu Liu)
67. *A Methodology for Performance Measurement and Peer Comparison in the Public Transportation Industry*, Transit Cooperative Research Program (TCRP), Subcontract from Kittelson and Associates, Inc., \$29,000, 2008-2010 (Co-PIs: Fabian Cevallos, Feng Gui).
68. *Continued Maintenance of FSUTMS Online Modeling Portal and Launcher*, Florida Department of Transportation (through Cambridge Systematics, Inc.), \$10,000, 2008-2008.
69. *Development of FSUTMS Standard Reports*, Cambridge Systematics/Florida Department of Transportation (through Cambridge Systematics, Inc.), \$65,000, 2007-2008.
70. *Maintenance of FSUTMS Online Modeling Portal*, Florida Department of Transportation (through Cambridge Systematics, Inc.), \$15,000, 2007-2008.
71. *Continued Development of FSUTMS GIS online*, Systems Planning Office, Florida Department of Transportation (through Cambridge Systematics, Inc.), \$40,000, 2007-2008.
72. *Development of Web FTIS Version 2008*, Public Transit Office, Florida Department of Transportation, \$142,714, 2007-2008.
73. *System Support for Crash Reduction Analysis System Hub (CRASH)*, Florida Department of Transportation, \$16,000, 2007-2007.
74. *Development of Prototype GIS Systems for Transportation Model Networks for FSUTMS*, Transportation Systems Planning, Florida Department of Transportation, \$110,000, 2007-2008.
75. *Development of a Computer-Based Training (CBT) Course for the FSUTMS Comprehensive Modeling Workshop*, Transportation Systems Planning, Florida Department of Transportation, \$100,000, 2007-2008.
76. *Evaluation and Refinement of Incident Detection Strategies for Major Arterial Streets*, University Consortium for Intermodal Transportation Safety and Security, Federal Highway Administration, U.S. Department of Transportation, \$137,000, 2006-2008 (Co-PI: Jim Zhan).
77. *Development of Automated Transit Stop Inventory Model*, Public Transit Office, Florida Department of Transportation, \$150,000, 2006-2007 (Co-PIs: Fabian Cevallos, Haifeng Wang).
78. *Technical Support for RAPTS Program*, University of South Florida, \$10,000, 2006-2006 (Co-PI: Fabian Cevallos).
79. *Development of Florida Modeling Portal*, Systems Planning Office, Florida Department of Transportation, \$125,000, 2005-2006 (Co-PI: Rax Jung, Kaiyu Liu, and Haifeng Wang).
80. *Procurement and Technology Transfer of Florida Automated Transit Stop Inventory Model (ATSIM)*, Public Transit Office, Florida Department of Transportation, \$65,000, 2005-2006 (Co-PI: Haifeng Wang).
81. *Development of Web Version of Florida Transit Information System*, Public Transit Office, Florida Department of Transportation, \$195,000, 2005-2006 (Co-PIs: Jun Zheng, Kaiyu Liu, and Haifeng Wang).
82. *Transportation Engineering Services*, C.H. Perez & Associates, \$5,000, 2005-2006 (Co-PI: Rax Jung).
83. *Vehicle Occupancy Data Collection Methods, Phase II*, Transportation Statistics Office, Florida Department of Transportation, \$100,000, 2005-2007 (Co-PIs: Rax Jung and Kaiyu Liu).
84. *Development of Florida Transit Information System (FTIS) Version 2005*, Public Transit Office, Florida Department of Transportation, \$160,000, 2005-2006 (Co-PIs: Kaiyu Liu and Jun Zheng).
85. *Design and Implementation of SunGuide Broward Regional Transportation Management Center*

- (RTMC) Website, District 4 Florida Department of Transportation, \$30,000, 2004-2005.
86. *Web and Database Support for Resources for Advanced Public Transportation Systems (RAPTS)*, University of South Florida, \$20,938, 2004-2005.
 87. *Accuracy Standards for FSUTMS Transit Model Validation*, University of Miami and Florida Department of Transportation, \$50,000, 2004-2005 (Co-PIs: Rax Jung and Min-Tang Li).
 88. *Update of Florida Crash Reduction Factors and Countermeasures to Improve the Development of District Safety Improvement Projects (Supplement)*, State Safety Office, Florida Department of Transportation, \$40,000, 2004-2005 (Co-PIs: Lee-Fang Chow and David Shen).
 89. *Development of Florida Transit Information System (FTIS) Version 2004*, Public Transit Office, Florida Department of Transportation, \$160,000, 2004-2005 (Co-PIs: Kaiyu Liu and Jun Zheng).
 90. *Development of an Automated Collection and Analysis System for Bus Stop Inventory*, Public Transit Office, Florida Department of Transportation, \$130,000, 2003-2005 (Co-PIs: Kaiyu Liu and Rax Jung).
 91. *Vehicle Occupancy Data Collection Methods*, Transportation Statistics Office, Florida Department of Transportation, \$99,500, 2003-2005 (Co-PIs: Rax Jung and Kaiyu Liu).
 92. *Development of Spatial Functions and Databases for the Design and Evaluation of Transit Routes and Stops*, Public Transit Office, Florida Department of Transportation, \$140,000, 2003-2004 (Co-PIs: Kaiyu Liu and Jun Zheng).
 93. *Development of a Prototype Computer-Based Training for FSUTMS*, Systems Planning Office, Florida Department of Transportation, \$90,000, 2003-2004 (Co-PIs: Kaiyu Liu and David Shen).
 94. *Development of Florida Transit Information System (FTIS) Version 2003*, Public Transit Office, Florida Department of Transportation, \$195,000, 2002-2003 (Co-PIs: Kaiyu Liu and Fang Zhao).
 95. *Update of Florida Crash Reduction Factors and Countermeasures to Improve the Development of District Safety Improvement Projects*, State Safety Office, Florida Dept. of Transportation, \$105,279, 2001-2004 (Co-PIs: Lee-Fang Chow and David Shen).
 96. *Development of Operational Performance Models for Freeway Truck Restrictions*, Systems Planning Office, Florida Department of Transportation, \$70,000, 2001-2003 (Co-PI: Fang Zhao).
 97. *Phase II Development of Florida Transit Information System (FTIS)*, Public Transit Office, Florida Department of Transportation, \$140,000, 2001-2002 (Co-PIs: Fang Zhao and David Shen).
 98. *Simulation Modeling of Traffic Bottlenecks at Urban Freeway Interchanges*, FIU Foundation, Summer Research Competition, \$5,000, 2001-2001.
 99. *Incorporating Automatic Feedback into FSUTMS for Equilibrium and Peak Spreading Modeling*, Systems Planning Office, Florida Department of Transportation, \$125,000, 2000-2003 (Co-PIs: Fang Zhao and David Shen).
 100. *Development of Operational Performance Models for Bus Lane Preferential Treatments*, Florida Department of Transportation, \$70,000, 2000-2002 (Co-PIs: Fang Zhao and David Shen).
 101. *Development of a Transit Planning Information System*, Public Transit Office, Florida Department of Transportation, \$60,000, 2000-2001 (Co-PIs: Fang Zhao and David Shen).
 102. *Guidelines for Triple Left-turn Lanes*, Traffic Operations Office, Florida Department of Transportation, \$50,000, 1999-2001.

As Co-Principal Investigator

1. *Use of Communication Technologies to Enhance Public Involvement in Transportation Projects*, Florida Department of Transportation, \$120,000, 2017-2018 (PI: Priyanka Alluri).
2. *Evaluation of Incident Response Improvements for Statewide Application: Learning from the New Regional Traffic Management Center in Jacksonville, FL*, Traffic Engineering and Operations Office, Florida Department of Transportation (Subcontract from University of North Florida), \$50,000, 2017-2018 (PI: Priyanka Alluri).

3. *Comparing Countermeasures for Mitigating Wrong-way Entries onto Limited Access Facilities*, Traffic Engineering and Operations Office, Florida Department of Transportation (Subcontract from University of South Florida), \$33,021, 2016-2017 (PI: Priyanka Alluri).
4. *Evaluation of Project Processes in Relation to Transportation Systems Management and Operations (TSM&O)*, Traffic Engineering and Operations Office, Florida Department of Transportation (Subcontract from University of North Florida), \$125,000, 2016-2018 (PI: Priyanka Alluri).
5. *Statewide Analysis of Bicycle Crashes*, State Safety Office, Florida Department of Transportation, \$150,000, 2015-2017 (PI: Priyanka Alluri).
6. *Safe and Accessible Pedestrian Facilities Inventory Model (SAPFIM): Development*, National Center for Transit Research, University Transportation Centers (UTC Consortium), \$94,274, 2016-2017 (PI: Fabian Cevallos).
7. *Safe and Accessible Pedestrian Facilities Inventory Model (SAPFIM): Planning and Design*, National Center for Transit Research, University Transportation Centers (UTC Consortium), \$94,274, 2016-2017 (PI: Fabian Cevallos).
8. *Safe and Accessible Pedestrian Facilities Inventory Model (SAPFIM)*, Transportation Statistics Office, Florida Department of Transportation, \$100,000, 2016-2017 (PI: Fabian Cevallos).
9. *Bus Stop Management System*, Triangle Transit, \$32,525, 2016-2018 (PI: Fabian Cevallos).
10. *Statewide Analysis of Bicycle Crashes*, Florida Department of Transportation, \$150,000, 2015-2017 (PI: Priyanka Alluri).
11. *Quantifying the Accuracy of the Enhanced Interchange Safety Analysis Tool (ISATe) Crash Prediction Tools on Florida Highways*, Florida Department of Transportation, \$75,000, 2015-2016 (PI: Priyanka Alluri).
12. *Development and Implementation of Puerto Rico Strategic Highway Safety Plan (SHSP)*, Puerto Rico DOT via ATEC Consultants, \$82,427, 2014-2015 (PI: Priyanka Alluri).
13. *Development of a Web-based Decision Making Tool for the Highway Safety Manual Implementation*, U.S. Department of Transportation via National Center for Transportation Systems Productivity and Management (NCTSPM), \$82,457, 2014-2015 (PI: Priyanka Alluri).
14. *State of Good Repair Performance Measures: Assessing Asset Condition, Age, and Performance Data*, National Center for Transit Research, University Transportation Centers (UTC Consortium), \$339,760, 2013-2015 (PI: Fabian Cevallos).
15. *Transit Service Reliability: Analyzing Automatic Vehicle Location (AVL) Data for On-Time Performance and to Identify Conditions Leading to Service Degradation*, National Center for Transit Research, University Transportation Centers (UTC Consortium), \$185,000, 2013-2014 (PI: Fabian Cevallos).
16. *Development of a Training Manual for Transit Service Planning and Scheduling*, National Center for Transit Research, University Transportation Centers (UTC Consortium), \$130,000, 2013-2014 (PI: Fabian Cevallos).
17. *Transit Stop Inventory Model (ATSIM) Training and Technical Support*, Public Transit Office, Florida Department of Transportation, \$34,800, 2012-2013 (PI: Fabian Cevallos).
18. *Guidelines for Bus Transit Stops in Highway Construction Work*, Florida Department of Transportation, \$122,600, 2013-2014 (PI: Fabian Cevallos).
19. *Traffic Management Centers: Challenges, Best Practices, and Future Plans*, National Center for Transportation System Productivity and Management, Georgia Institute of Technology, \$65,000, 2012-2013 (PI: Xia Jin).
20. *Improved Processes for Meeting the Data Requirements for Implementing the Highway Safety Manual (HSM) and SafetyAnalyst in Florida*, Safety Office, Florida Department of Transportation, \$175,000, 2012-2014 (PI: Priyanka Alluri).
21. *Traffic Incident Management Program Assessment and Performance Measures*, District 4 Florida Department of Transportation, \$69,997, 2012-2013 (PI: Xia Jin).

22. *I-95 Ramp Metering Feasibility Study*, District 4 Florida Department of Transportation (via AECOM), \$53,138, 2012-2013 (PI: Xia Jin).
23. *Automated Transit Stop Inventory Model (ATSIM) Development and Technical Support*, Public Transit Office, Florida Department of Transportation, \$135,000, 2012-2013 (PI: Fabian Cevallos).
24. *Exploring Potential Uses of ITS Communication Backbone for Civil Infrastructure Applications*, ITS Office, District 4 Florida Department of Transportation, \$62,000, 2011-2012 (PI: Nakin Suksawang).
25. *Florida Advanced Public Transportation Systems Program*, Public Transit Office, Florida Department of Transportation, \$135,000, 2010-2011 (PI: Fabian Cevallos).
26. *Needs Assessment for Transit and GIS Data Clearinghouse*, Public Transit Office, Florida Department of Transportation, \$73,850, 2010-2011 (PI: Fabian Cevallos).
27. *Conserve by Transit II*, University of South Florida/Florida Department of Transportation, \$49,322, 2010-2011 (PI: Fabian Cevallos).
28. *Miami-Dade Most Dangerous Locations for Elderly Pedestrians*, Miami-Dade County Public Works Department (PWD), \$50,000, 2008-2009 (PI: Fabian Cevallos).
29. *Technical Assistance for Miami-Dade Transit Service Planning Section*, Miami-Dade Transit, \$45,000, 2008-2009 (PI: Fabian Cevallos).
30. *Technical Assistance for Miami-Dade Transit Service Planning Section*, Miami-Dade Transit, \$50,000, 2008-2009 (PI: Fabian Cevallos).
31. *Florida APTS Program*, Florida Department of Transportation, \$150,000, 2007-2008 (PI: Fabian Cevallos)
32. *APTS Technical Assistance to Miami-Dade Transit*, Miami-Dade Transit, \$105,000, 2006-2007 (PI: Fabian Cevallos)
33. *Data Mining Technical Support for RAPTS Program*, University of South Florida/Florida Department of Transportation, \$42,000, 2006-2007 (PI: Fabian Cevallos)
34. *Year-Three Program for Center for Transportation Needs of Special Population (TRANSPO)*, U.S. Federal Transit Administration, \$742,500, 2006-2008 (PI: David Shen).
35. *Year-Two Program for Center for Transportation Needs of Special Population (TRANSPO)*, Federal Transit Administration, \$583,067, 2006-2007 (PI: David Shen).
36. *University Consortium for Intermodal Transportation Safety and Security (Phase II)*, U.S. Department of Transportation, \$198,686, 2005-2006 (PI: David Shen).
37. *University Consortium for Intermodal Transportation Safety and Security (Phase I)*, U.S. Department of Transportation, \$424,055, 2004-2005 (PI: David Shen).
38. *Coordination of Specialized Transportation Services for Transportation-Disadvantaged Populations: Issues and Solutions*, Federal Transit Administration, \$388,350, 2004-2005 (PI: David Shen).
39. *Calibration of Highway/Transit Speed Relationships for Improved Transit Network Modeling in FSUTMS*, Systems Planning Office, Florida Department of Transportation, \$90,000, 2002-2003 (PI: Fang Zhao).
40. *Refinement of FSUTMS Trip Distribution Methodology (supplement)*, Systems Planning Office, Florida Department of Transportation, \$50,000, 2002-2003 (PI: Fang Zhao).
41. *Optimization of Transit Network to Minimize Transfers*, Public Transit Office, Florida Department of Transportation, \$170,000, 2001-2003 (PI: Fang Zhao).
42. *Florida East Coast (FEC) Corridor Study*, Metro Center and City of Miami, \$70,000, 2001-2001 (PI: Fang Zhao).
43. *Identify Equilibrium of Land Use and Transportation Investments Using Spatiotemporal Analysis Tools*, Systems Planning Office, Florida Department of Transportation, \$175,000, 2000-2001 (PI: Fang Zhao).
44. *Development of FSUTMS Life Cycle and Seasonal Resident Trip Production Models for Florida Urban Areas*, Systems Planning Office, Florida Department of Transportation, \$150,000, 2000-

- 2003 (PI: Fang Zhao).
45. *FSUTMS Mode Choice Modeling: Factors Affecting Transit Use and Access*, Public Transit Office, Florida Department of Transportation, \$100,000, 2000-2001 (PI: Fang Zhao).
 46. *Refinement of FSUTMS Trip Distribution Methodology*, Systems Planning Office, Florida Department of Transportation, \$195,000, 1998-2001 (PI: Fang Zhao).
 47. *Evaluation of Public Transportation Safety Needs of Special Populations (Phase I)*, U.S. DOT, \$50,000, 1997-1998 (PI: Charles Wallace).
 48. *Beta Testing of Traffic Software*, U.S. DOT, 1996-1998 (PI: Charles Wallace):
 - Work Order 11: “Sensitivity Analysis of FRESIM Variables,” \$35,000, 1998-1998.
 - Work Order 10: “Assessment of CORSIM’s Ability to Simulate Surface-Street Traffic Operations at Interchanges,” \$35,000, 1998-1998.
 - Work Order 9: “ITRAF Comprehensive Test,” \$20,000, 1998-1998.
 - Work Order 8: “Extended TSIS Beta Test,” \$20,000, 1997-1998.
 - Work Order 7: “EVIPAS Testing,” \$25,000, 1997-1997.
 - Work Order 6 “TSIS Pre-release Testing,” \$75,000, 1996-1996.

PUBLICATIONS (advisees listed in boldface)

Refereed Journal Papers

1. Alluri, P., A. Gan, and **K.Y. Liu**, “Statewide Implementation of *SafetyAnalyst*: The Florida Experience,” *Journal of Safety and Security* (accepted).
2. Gan, A., P. Alluri, **A. Raihan, K. Y. Liu, D. Saha**, and R. Jung, “An Automated System for Prioritizing Highway Improvement Locations and Analyzing Project Alternatives,” *Transportation Research Record 2654, Journal of the Transportation Research Board*, 2017.
3. Alluri, P., A. Gan, **D. Saha**, and L. O. Fernandez, “Evaluation of Signage Alternatives for Express Lane Facilities: Focus Group Study,” *Transportation Research Record 2616, Journal of the Transportation Research Board*, 2017.
4. **Saha, D.**, P. Alluri, and A. Gan, “A Bayesian Procedure for Evaluating the Frequency of Calibration Factor Updates in Highway Safety Manual (HSM) Applications,” *Accident Analysis & Prevention*. Vol. 98, pp. 74-86, January 2017.
5. Alluri, P, A. Gan, and K. Haleem, “Safety Impacts of Converting Two-Way Left-Turn Lanes to Raised Medians and Associated Design Concerns,” *Journal of Transportation Research Forum* Vol. 55, No. 2, pp. 33-48, 2016.
6. Gan, A., **K.Y. Liu**, and P. Alluri, “An Integrated Analysis System for Rural National Transit Database (NTD),” *Transportation Research Record 2539, Journal of the Transportation Research Board*, pp. 167-177, 2016.
7. Alluri, P., K. Haleem, A. Gan, and J. Mauthner, “Safety Performance Evaluation of Cable Median Barriers on Freeways in Florida,” *Traffic Injury Prevention Journal*, Vol. 17, Issue 5, pp. 544-551, 2016.
8. **Saha, D.**, P. Alluri, and A. Gan, “A Random Forests Approach to Prioritize Highway Safety Manual (HSM) Variables for Data Collection,” *Journal of Advanced Transportation*, Vol. 50, Issue 4, pp. 522-540, June 2016.
9. Inanloo, B., B. Tansel, X. Jin, K. Shams, A. Gan, “A Decision Aid GIS-Based Risk Assessment and Vulnerability Analysis Approach for Transportation and Pipeline Networks,” *Journal of Safety Science*, Vol. 84, pp. 57-66, April 2016.
10. Alluri, P, **D. Saha**, and A. Gan, “Minimum Sample Sizes for Estimating Reliable *Highway Safety Manual* (HSM) Calibration Factors,” *Journal of Transportation Safety and Security*, Vol. 8, Issue 1, pp. 56-74, 2016.

11. Alluri, P., A. Gan, **A. Diaz**, and R. Steiner, "Safety Impacts of Access Management Features Near Roundabouts," *Transportation Research Record 2517, Journal of the Transportation Research Board*, pp. 28-36, 2015.
12. Haleem, K., P. Alluri, and A. Gan, "Analysis of Pedestrian Crash Injury Severity at Signalized and Non-Signalized Locations," *Accident Analysis & Prevention*, Vol. 81, pp. 14-23, August 2015.
13. Haleem, K. and A. Gan, "Contributing Factors of Crash Injury Severity at Public Highway-Railroad Grade Crossings in the U.S.," *Journal of Safety Research*, Vol. 53, pp. 23-29, June 2015.
14. **Saha, D.**, P. Alluri, and A. Gan, "Prioritizing Highway Safety Manual's Crash Prediction Variables Using Boosted Regression Trees," *Accident Analysis & Prevention*, Vol. 79, pp. 133-144, June 2015.
15. Alluri, P., A. Gan, K. Haleem, and J. Mauthner, "Safety Performance of G4 (1S) W-beam Guardrails versus Cable Median Barriers on Florida's Freeways," *Journal of Transportation Safety and Security*, Vol. 7, Issue 3, pp. 208-227, 2015.
16. **Li, T.**, A. Gan, and P. Alluri, "Automatic Extraction of Number of Lanes from Geo-rectified Aerial Images," *Transportation Research Record No. 2460, Journal of the Transportation Research Board*, pp. 86-96, 2014.
17. Jin, X., M. S. Hossan, A. Gan, and D. Chen, "Comprehensive Framework for Planning and Assessment of Traffic Incident Management Programs," *Transportation Research Record No. 2470, Journal of the Transportation Research Board*, pp. 1-12, 2014.
18. Suksawang, N., P. Alluri, A. Gan, **K. Meneses**, F. Cevallos, K. Haleem, and **D. Saha**, "Use of Movable Bus Stop Loading Pads: Feasibility and Design Alternatives," *Journal of Public Transportation*. Vol. 17. No. 4, pp. 57-73, 2014.
19. **Lu, J. Y.**, K. Haleem, A. Gan, and P. Alluri, "Developing Local Safety Performance Functions versus Calculating Calibration Factors for *SafetyAnalyst* Applications: A Florida Case Study," *Journal of Safety Science*, Vol. 65, pp. 93-105, June 2014.
20. Haleem, K., A. Gan, P. Alluri, and **D. Saha**, "Identifying Traffic Safety Practices and Needs of Local Transportation and Law Enforcement Agencies," *Journal of Transportation Research Forum*, Vol. 53, No. 1, pp. 83-99, 2014.
21. **Lu, J. Y.**, K. Haleem, P. Alluri, and A. Gan, "Full versus Simple Safety Performance Functions: Comparison Based on Urban Four-Lane Freeway Interchange Influence Areas in Florida," *Transportation Research Record 2398, Journal of the Transportation Research Board*, pp. 83-92, 2013.
22. **Wang, T.**, A. Gan, and P. Alluri, "Estimating Annual Average Daily Traffic (AADT) for Local Roads for Highway Safety Analysis," *Transportation Research Record 2398, Journal of the Transportation Research Board*, pp. 60-66, 2013.
23. Haleem, K. and A. Gan, "Effect of Driver's Age and Side of Impact on Crash Severity along Urban Freeways: A Mixed Logit Approach," *Journal of Safety Research*, Vol. 46, pp. 67-76, September 2013.
24. Haleem, K., A. Gan, and **J. Y. Lu**, "Using Multivariate Adaptive Regression Splines (MARS) to Develop Crash Modification Factors for Urban Freeway Interchange Influence Areas," *Accident Analysis & Prevention*, Volume 55, pp. 12-21, June 2013.
25. **Lu, J. Y.**, A. Gan, K. Haleem, and **W. Y. Wu**, "Clustering-Based Roadway Segment Division for the Identification of High Crash Locations," *Transportation Safety and Security*, Vol. 5, Issue 3, pp. 224-239, May 2013.
26. **Zhan, C. J.**, A. Gan, and M. Hadi, "Prediction of Lane Clearance Time of Freeway Incidents Using the M5P Tree Algorithm," *IEEE Transactions on Intelligent Transportation Systems*, Vol. 12, Issue 4, pp. 1549-1557, September 2011.
27. Gan, A., F. Gui, and **L. Tang**, "System for Transit Performance Analysis Using the National Transit Database," *Journal of Public Transportation*, Vol. 14. No. 3, pp. 87-107, 2011.

28. Cevallos, F., X. B. Wang, Z. M. Chen, and A. Gan, "Using AVL Data to Improve Transit On-Time Performance," *Journal of Public Transportation*, Vol. 14, No. 3, pp. 21-40, 2011.
29. **Wu, W.Y.**, A. Gan, F. Cevallos, and M. Hadi, "A Multi-Objective Optimization Model for Prioritizing Transit Stops for ADA Improvements," *ASCE Journal of Transportation Engineering* Vol. 137, No. 8, pp. 580-588, 2011.
30. **Wu, W.Y.**, A. Gan, F. Cevallos, and L. D. Shen, "Selecting Bus Stops for Accessibility Improvements for Riders with Physical Disabilities," *Journal of Public Transportation*, Vol. 14, No. 2, pp., 133-149, 2011.
31. **Jung, R.** and A. Gan, "Sampling and Analysis Methods for Estimation of Average Vehicle Occupancies," *ASCE Journal of Transportation Engineering*, Vol. 137, No. 8, pp. 537-546, 2011.
32. Haleem, K. and A. Gan, "Identifying Traditional and Non-Traditional Predictors of Crash Injury Severity on Major Urban Roadways," *Traffic Injury Prevention Journal*, Vol. 12, No. 3, pp. 223-234, 2011.
33. **Zhu, X. S.**, A. Gan, and L. D. Shen, "Evaluation of Design Standards of Four-Hour-Volume Traffic Signal Warrant," *Journal of Transportation Research Forum*, Vol. 49, No. 3, 2010.
34. Hadi, M., **C. J. Zhan**, Y. Xiao, and A. Gan, "Assessing the Benefits of Incident Management Systems: Combining Freeway Facility Procedures from the Highway Capacity Manual and Data Archives of Intelligent Transportation Systems," *Transportation Research Record 2173, Journal of the Transportation Research Board*, National Research Council, pp. 115-122, 2010.
35. **Zhou, G. W.** and A. Gan, "Design of Transit Signal Priority at Signalized Intersections with Queue Jumper Lanes," *Journal of Public Transportation*, Vol. 12, No. 4, pp. 117-132, 2009.
36. **Zhan, C. J.**, A. Gan, and M. Hadi, "Identifying Secondary Crashes and Their Contributing Factors," *Transportation Research Record 2102, Journal of the Transportation Research Board*, National Research Council, pp. 68-76, 2009.
37. Cevallos, F., **Q. Yuan**, X. Wang, and A. Gan, "Using Personal Global Positioning System Devices in Paratransit," *IET Journal of Intelligent Transport Systems*, Institution of Engineering and Technology, Vol. 3, Issue 3, pp. 282-288, September 2009.
38. Gan, A., **K. Y. Liu**, L. D. Shen, and R. Jung, "Prototype Information System for Estimating Average Vehicle Occupancies from Traffic Accident Records," *Transportation Research Record 2049, Journal of the Transportation Research Board*, National Research Council, pp. 29-37, 2008.
39. **Zhou, G. W.**, A. Gan, and L. D. Shen, "Optimization of Adaptive Transit Signal Priority (TSP) Using Parallel Generic Algorithm (PGA)," *Tsinghua Science and Technology*, Elsevier, Volume 12, No 2, pp. 131-140, April 2007.
40. **Zhou, G. W.** and A. Gan, "Optimal Detector Locations for Transit Signal Priority with Queue Jumper Lanes," *Transportation Research Record 1978, Journal of the Transportation Research Board*, National Research Council, pp. 123-129, 2006.
41. Zhao, F, I. Ubaka, and A. Gan, "Transit Network Optimization: Minimizing Transfers and Optimizing Service Coverage with an Integrated Simulated Annealing and Tabu Search Method," *Transportation Research Record 1923, Journal of the Transportation Research Board*, National Research Council, pp. 180-188, 2005.
42. **Zhou, G. W.** and A. Gan, "Performance of Transit Signal Priority with Queue Jumper Lanes," *Transportation Research Record 1925, Journal of the Transportation Research Board*, National Research Council, pp. 265-271, 2005.
43. **Shen J.** and A. Gan, "Development of Crash Reduction Factors: Methods, Problems, and Research Needs," *Transportation Research Record 1840, Journal of the Transportation Research Board*, National Research Council, pp. 50-56, 2003.
44. Gan, A., **H. Y. Yue**, I. Ubaka, and F. Zhao, "Development of Operational Performance and Decision Models for Arterial Bus Lanes," *Transportation Research Record 1858, Journal of the Transportation Research Board*, National Research Council, pp. 18-30, 2003.
45. Zhao, F., L. F Chow, M. T, Li, I. Ubaka and A. Gan, "Forecasting Transit Walk Accessibility: Regression Model Alternative to Buffer Method," *Transportation Research Record 1835, Journal*

- of the Transportation Research Board*, National Research Council, pp. 34-41, 2003.
46. **Espino, E., J. Gonzalez,** and A. Gan, "A Systematic Approach for the Identification of Pedestrian High Crash Locations as Part of Florida's Highway Safety Improvement Program," *Transportation Research Record No. 1828, Journal of the Transportation Research Board*, National Research Council, pp. 83-88, 2003.
 47. Gan, A. C., I. Ubaka, and F. Zhao, "Integrated National Transit Database Analysis System (INTDAS)," *Transportation Research Record 1799, Journal of the Transportation Research Board*, National Research Council, pp. 78-88, 2002.
 48. Li, M. T and A. C. Gan, "Signal Timing Optimization for Oversaturated Networks Using TRANSYT-7F," *Transportation Research Record 1683, Journal of the Transportation Research Board*, National Research Council, 1999.
 49. Gan, C. T. and G. Long, "Effects of Driveway Corner Clearances on Traffic Operations, Safety and Capacity," *Transportation Research Record 1579, Journal of the Transportation Research Board*, National Research Council, pp. 35-42, 1997.
 50. Long, G. and C. T. Gan, "Model for Minimum Driveway Corner Clearances at Signalized Intersections," *Transportation Research Record 1579, Journal of the Transportation Research Board*, National Research Council, pp. 53-62, 1997.
 51. Gan, C. T. "A GIS-Aided Procedure for Converting Census Data for Transportation Planning," *ITE Journal*, pp. 34-40, November, 1994.

Full-Paper Refereed Proceedings

1. Gan, A., P. Alluri, and H. F. Wang, "Prototype System for Collection of Safety Data from Police Crash Reports," *Proceedings of the 96th Annual Meeting of the Transportation Research Board*, January 2017.
2. Gan, A., P. Alluri, **A. Raihan, K. Y. Liu, D. Saha,** and R. Jung, "An Automated System for Prioritizing Highway Improvement Locations and Analyzing Project Alternatives," *Proceedings of the 96th Annual Meeting of the Transportation Research Board*, January 2017.
3. **Saha, D., P. Alluri, W. Y. Wu,** and A. Gan, "Analysis of Bicycle Crashes with Spatial Autocorrelation: A Comparison of Conditional Autoregressive Models," *Proceedings of the 96th Annual Meeting of the Transportation Research Board*, January 2017.
4. Alluri, P., A. Gan, **D. Saha,** and L. O. Fernandez, "Evaluation of Signage Alternatives for Express Lane Facilities: Focus Group Study," *Proceedings of the 96th Annual Meeting of the Transportation Research Board*, January 2017.
5. **Raihan, A., P. Alluri, A. Gan,** and **R. Jung,** "Application of the Analytic Network Process (ANP) in Prioritizing Highway Improvement Locations," *Proceedings of the 95th Annual Meeting of the Transportation Research Board*, January 2016.
6. Gan, A., **K.Y. Liu,** and P. Alluri, "An Integrated Analysis System for Rural National Transit Database (NTD)," *Proceedings of the 95th Annual Meeting of the Transportation Research Board*, January 2016.
7. Fartash, H., P. Alluri, A. Gan, M. Lavasani, and K. Haleem, "Performance of Rectangular Rapid Flashing Beacons (RRFBs) at Midblock Pedestrian Crossings," *Proceedings of the 95th Annual Meeting of the Transportation Research Board*, January 2016.
8. Srinivasan, S., P. Haas, P. Alluri, A. Gan, and J. Bonneson, "Crash Prediction Method for Freeway Segments with High Occupancy Vehicle (HOV) Lanes," *Proceedings of the 95th Annual Meeting of the Transportation Research Board*, January 2016.
9. Sadeghvaziri, E., K. Haleem, P. Alluri, H. Fartash, and A. Gan, "Effects of Different Guide Signs on Driver Behavior at Express Lane Entrance: A Driving Simulation Study," *Proceedings of the 95th Annual Meeting of the Transportation Research Board*, January 2016.

10. Haleem, K., P. Alluri, and A. Gan, "Investigating Fractal Characteristics in Crash Trends for Potential Traffic Safety Prediction," *Proceedings of the 95th Annual Meeting of the Transportation Research Board*, January 2016.
11. Alluri, P., A. Gan, A. Diaz, and R. Steiner, "Safety Impacts of Access Management Features in the Vicinity of Roundabouts," *Proceedings of the 94th Annual Meeting of the Transportation Research Board*, January 2015.
12. Alluri, P., D. Saha, and A. Gan, "Prioritization of Highway Safety Manual (HSM) Data Variables using Random Forest Algorithm," *Proceedings of the 94th Annual Meeting of the Transportation Research Board*, January 2015.
13. Alluri, P., A. Gan, and K. Y. Liu, "Preparing Input Data for *SafetyAnalyst* Implementation: The Florida Experience," *Proceedings of the 94th Annual Meeting of the Transportation Research Board*, January 2015.
14. Sisipiku, V., M. Islam, K. Haleem, A. Gan, and P. Alluri, "Investigation of the Potential Relationship between Crash Occurrence and the Presence of Digital Advertising Billboards in Alabama and Florida," *Proceedings of the 94th Annual Meeting of the Transportation Research Board*, January 2015.
15. Xia, J., Z. H. Zhang, J. C. Wu, A. Gan, and D. Chen, "Potential for Applying Advanced Technologies at TMCs – Results from a Nationwide Survey," *Proceedings of the 94th Annual Meeting of the Transportation Research Board*, January 2015.
16. Zhang, Z. H., X. Jin, J. C. Wu, A. Gan, and D. Chen, "An Overview of TMC Practices—Results from a Nationwide Survey," *Proceedings of the 94th Annual Meeting of the Transportation Research Board*, January 2015.
17. Hossan, M. S., X. Jin, A. Gan, and D. Chen, "Comprehensive Framework of Performance Measurement for Traffic Incident Management Programs," *Proceedings of the 94th Annual Meeting of the Transportation Research Board*, January 2015.
18. Alluri, P., A. Gan, and K. Haleem, "Pedestrian Safety at Signalized Intersections," *Proceedings of the 2nd T&DI Congress*, Transportation and Development Institute (T&DI), American Society of Civil Engineers (ASCE), June 8-11, 2014.
19. Haleem, K., A. Gan, and P. Alluri, "Exploration of Fractal Characteristics in Crash Data," *Proceedings of the 2nd T&DI Congress*, Transportation and Development Institute (T&DI), American Society of Civil Engineers (ASCE), June 8-11, 2014.
20. Lu, J. Y., Haleem, K., A. Gan, and P. Alluri, "Safety Performance Functions for Florida's Freeways," *Proceedings of the 2nd T&DI Congress*, Transportation and Development Institute (T&DI), American Society of Civil Engineers (ASCE), June 8-11, 2014.
21. Alluri, P., A. Gan, and K. Haleem, "Safety Impacts of Converting Two-Way Left-Turn Lanes to Raised Medians and Associated Design Concerns," *Proceedings of the 93rd Annual Meeting of the Transportation Research Board*, January 2014.
22. Saha, D., P. Alluri, K. Haleem, A. Gan, and D. McCarthy, "Evaluation of Hybrid Static-Dynamic Sign Designs: A Focus Group Study," *Proceedings of the 93rd Annual Meeting of the Transportation Research Board*, January 2014.
23. Li, T., A. Gan, and P. Alluri, "Automatic Extraction of Number of Lanes from Geo-rectified Aerial Images," *Proceedings of the 93rd Annual Meeting of the Transportation Research Board*, January 2014.
24. Cevallos, F., J. Skinner, D. McCarthy, A. Gan, and A. Joslin, "Marketing Fixed-Route Transit to Seniors: Challenges and Recommendations," *Proceedings of the 93rd Annual Meeting of the Transportation Research Board*, January 2014.
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53. Zhao, F., L. F. Chow, M. T. Li, and A. Gan, "Refinement of FSUTMS Trip Distribution Methodology," Final Report, Prepared for Florida DOT, September 2004.
54. Zhao, F. and A. Gan, "Optimization of Transit Network to Minimize Transfers," Final Report, Prepared for Florida DOT, December 2003.
55. Zhao, F., L. F. Chow; M. T. Li, and A. Gan, "A Trip Generation MPO Survey Summary: A Supplemental Report," Final Report, Prepared for Florida DOT, 2003.
56. Gan, A., **R. Jung**, M. T. Li, and C. J. Lan, "Incorporating Variable Peak-to-Daily Ratios into FSUTMS to Reduce Assignment Errors," Final Report, Prepared for Florida DOT, September 2003.
57. Lan, C. J., M. Menendez, and A. Gan, "Incorporating Feedback Loop into FSUTMS for Model Consistency," Final Report, Prepared for Florida DOT, September 2003.
58. Zhao, F., L. F. Chow, M. T. Li, and A. Gan, "Development of FSUTMS Lifestyle and Seasonal Resident Trip Production Models for Florida Urban Areas," Final Report, Florida Department of Transportation, March 2003.
59. Gan, A. and **S. J. Jo**, "Operational Performance Models for Freeway Truck-Lane Restrictions," Final Report, Prepared for Florida DOT, April 2003.
60. Courage, K., B. Stephens, A. Gan, and M. Willis, "Triple Left Turn Lanes at Signalized Intersections," Final Report, Prepared for Florida DOT, December 2002.
61. Zhao, F., M. T. Li, L. F., Chow, A. Gan, and L. D. Shen, "FSUTMS Mode Choice Modeling: Factors Affecting Transit Use and Access," Final Report, Prepared for Florida DOT, July 2002.
62. Gan, A. C., **A. Yue**, **J. Shen**, and F. Zhao, "Development of Operational Performance Models for Bus Lane Preferential Treatments," Final Report, Prepared for Florida DOT, June 2002.
63. Zhao, F, M. T. Li, L. D. Shen, and A. Gan, *Florida East Coast Corridor Study - Transportation Component FEC Corridor Right-of-Way Study*, Final Report, Prepared for City of Miami, April 2002.
64. Courage, K. G., A. Gan, B. Stephens, F. Vioria, S. Washburn, and M. Willis, "Florida Intersection Design Guide for New Construction and Major Reconstruction of At-Grade Intersections on the State Highway System," Final Report, Prepared for Florida DOT, March 2002.
65. Gan, A. C., **E. Guinard**, and **J. Shen**, "Safety Analysis of Triple Left-turn Lanes in Florida," Final Report, Prepared for University of Florida, December 2000.

66. Gan, A. C., S. R. Han, M. T. Li, A. M. Elias, and C. E. Wallace, "Assessment of CORSIM's Ability to Simulate Surface-Street Traffic Operations at Interchanges," Final Report, Prepared for the Federal Highway Administration, U.S. DOT, February 2000.
67. Li, M. T., A. M. Elias, S. R. Han, C. E. Wallace, and A. C. Gan, "Sensitivity Analysis of CORSIM Variables," Final Report, Prepared for the Federal Highway Administration, U.S. DOT, February 2000.
68. Stephens, B. W., C. E. Wallace, A. C. Gan, A. Ghobrial, and A. M. Elias, "Evaluation of Public Transportation Safety Needs of Special Populations," Final Report, Prepared for U.S. Department of Transportation, December 1999.
69. **Appachu, D.**, A. M. Elias, B. W. Stephens, C. E. Wallace, and A. C. Gan, "Identification of Critical Issues Involving Schools Bus Safety," Final Report, Prepared for the U.S. Department of Transportation, May 1999.
70. Wattleworth, J. A., M. A. Hadi, J. Aruldas, L. F. Chow, and C. T. Gan, "Relationship of Highway Design Standards to Accidents, Injuries, and Fatalities," Final Report, Prepared for Florida DOT, 1995.
71. Long, G. and C. T. Gan, "Driveway Impacts on Saturated Traffic Flows," Final Report, Prepared for Florida DOT, 1994.
72. Long, G., C. T. Gan, and B. S. Morrison, "Safety Impacts of Selected Access and Median Design Features," Final Report, Prepared for Florida DOT, 1993.
73. Gan, C. T. and K. G. Courage, "Signal Phasing Optimization: GASCAP Reference Library Volume 25," Final Report, Prepared for Florida DOT, 1993.

Software User's Manuals

1. Wang, T., A. Gan, and M. Ma, "FSUTMS Standard Reports Program Documentation," Final Report, Prepared for Systems Planning Office, Florida DOT, April 2009.
2. Wang, H. F. and A. Gan, "Road Ranger Driver Information System (RRDIS)." User's Guide (four volumes), Prepared for District 6 ITS Office, Florida DOT, July 2008.
3. Xu, C. T. Wang, and A. Gan, "Road Ranger Contractor Inspection Program (RRCIP)," User's Guide, Prepared for District 6 ITS Office, Florida DOT, March 2008.
4. Xu, C. and A. Gan, "Road Ranger Inspection Program, Version 1.0," User's Guide, Prepared for District 6 ITS Office, Florida DOT, February 2007.
5. Gan, A., "Automated Transit Stop Inventory Model," User's Guide, Prepared for Public Transit Office, Florida DOT, March 2006.
6. Gan, A., "Florida Transit Information System, Version 2006," User's Guide, Prepared for Public Transit Office, Florida DOT, December 2006.
7. Gan, A., "Florida Transit Information System, Version 2005," User's Guide, Prepared for Public Transit Office, Florida DOT, December 2005.
8. Gan, A., "CRASH User's Guide," Prepared for Florida DOT, April 2005.
9. Gan, A., "Florida Transit Information System, Version 2004," User's Guide, Prepared for Florida DOT, September 2004.
10. Gan, A., "Florida Transit Information System, Version 2003," User's Guide, Prepared for Florida DOT, March 2003.
11. Gan, A., "Florida Transit Information System, Version 2001," User's Guide, Prepared for Florida DOT, March 2002.
12. Wallace, C. E., K. G. Courage, M. A. Hadi, and A. C. Gan, "TRANSYT-7F Users Guide, M|O|S|T Volume 4," University of Florida Transportation Research Center, Prepared in cooperation with FHWA, U.S. DOT, March 1998.
13. Gan, C. T. and G. Long, "Users' Guide: Transit Section 15 Microcomputer Database (TRANS15)," Prepared for the Florida DOT, 1993-1997 (five versions).

Tutorials

1. “Rural INTDAS Online Tutorials,” developed for the National Rural Transit Assistance Program (RTAP), 2015.
2. “INTDAS Online Tutorials,” developed for FDOT Public Transit Office, 2011.
3. “FTGIS Online Tutorials,” developed for FDOT Public Transit Office, 2011.
4. “FSUTMS Comprehensive Modeling Workshop,” developed for FDOT Systems Planning Office, 2008.

Short Reports/Technical Memoranda

1. **Zhan, C. J.** and A. Gan, “A Quick Simulation Analysis of the Expected Capacity and Traffic Conditions on the Northbound I-95 Express Lanes in Miami-Dade County,” Short Report, Prepared for District 6 Florida DOT, July 2008.
2. Gan, A., “I-95 Floating Car Travel Time Study,” Technical Memorandum, Prepared for District 6 Florida DOT, November 2005.
3. Gan, A. and **C. J. Zhan**, “Temporal Distribution of Traffic Volumes on I-95 in Miami-Dade County,” Final Report, Prepared District 6 Florida DOT, July 2005.
4. Zhao, F., L. F. Chow, M. T. Li, A. Gan, and L. D. Shen, “Calibration of an Intervening Opportunity Model for Palm Beach County,” Technical Memorandum No. 3 for Refinement of FSUTMS Trip Distribution Methodology, September 2001.

Technical Articles

1. Alluri, P., K. Haleem, A. Gan, and J. Mauthner, “Safety Performance of Cable Median Barriers on Florida’s Freeways,” *FLITE Magazine*, Florida Section Institute of Transportation Engineers, Spring 2013.
2. Gan, A., “FSUTMS Standard Report Generation Program Available for Testing and Feedback,” *Florida Transportation Modeling Newsletter*, Vol. 32, June 2009.
3. Gan, A. and Y. Q. Wu, “FSUTMS Launcher Gets a Makeover,” *Florida Transportation Modeling Newsletter*, Vol. 32, May 2006.
4. Gan, A. and T. Corkery, “FSUTMS ONLINE: Your New Gateway to Transportation Modeling Information and Data Sharing Data,” *Florida Transportation Modeling Newsletter*, Vol. 32, May 2006.
5. Cevallos, F. and A. Gan, “ATSIM: Automated Transit Stop Inventory Model,” *Florida Transit Planning Network (FTPN) Newsletter*, p. 4, August 2005.
6. Gan, A. and I. Ubaka, “Transit Performance Analysis Made Easy with Florida Transit Information System (FTIS),” *Newsletter, TRB Committee on Performance Measurement (A5022/ABC30)*, Vol. 3, No. 2, pp. 2-3, July 2005.
7. Cevallos, F. and A. Gan, “FDOT Bus Stop Inventory Project,” *Florida Transit Planning Network (FTPN) Newsletter*, January 2004.
8. Gan, A. and F. Zhao, “Information Technology Research at the Lehman Center for Transportation Research,” *FLITE Magazine*, Florida Section Institute of Transportation Engineers, Summer 2002.
9. Zhao, F., A. C. Gan, and S. C. Li, “Employment Data Comparison Emphasizes Importance of Multiple Data Sources,” *Transportation Modeling Newsletter*, Oct. 1999.

SYSTEMS/CREATIVE PRODUCTS

Desktop Software Systems

1. Detector Data Simulator (DDS)
2. Florida Data Converter for *SafetyAnalyst*
3. Florida GIS System for *SafetyAnalyst*
4. FSUTMS Master Database System
5. FSUTMS Standard Reports System
6. Florida Transit Information System (five desktop versions, including INTDAS and FTGIS)
7. FSUTMS Launcher (three versions, integrated with Cube Voyager version of FSUTMS)
8. Florida Accident Vehicle Occupancy Rate Information System (FAVORITE) (two versions)
9. FSUTMS/TRANPLAN Computer-Based Training CD
10. Dynamic Segmentation Tool for Crash Modeling (DySeg)

Web-based Software Systems

1. Florida Transit Data Exchange (FTDE)
2. Congestion Management System (CMP)
3. Integrated National Transit Database Analysis System (Rural INTDAS)
4. Police Crash Report Review System (PCRRS)
5. Florida Highway Information System (FHIS)
6. Visual Roadway Inventory Collection System (VRICS)
7. Florida Guardrail Inventory System (FGI)
8. FDOT District 6 SunGuide Website (www.sunguide.info)
9. FDOT District 6 Contract Management System (running on FDOT D6 Intranet)
10. Florida Traffic Safety Portal (developed for FDOT State Safety Office)
11. FSUTMS Executive Summary Online Workshop and Management System (developed for FDOT Systems Planning Office)
12. FSUTMS-CUBE Comprehensive Modeling Online Workshop (developed for FDOT Systems Planning Office)
13. Integrated National Transit Database Analysis System (Urban INTDAS web version)
14. Florida Transit Geographic Information System (FTGIS web version)
15. Crash Reduction Analysis System Hub (CRASH) (running on FDOT Central Office Intranet)
16. Florida Transportation Modeling Portal (developed for FDOT Systems Planning Office)
17. FSUTMS Workshop Evaluation Results Viewer (developed for FDOT Systems Planning Office)
18. TRANSP0 GIS (developed for Federal Transit Administration)
19. FDOT District 6 Road Ranger Drivers Information System (running on a FDOT District 6 web server)
20. FDOT District 6 SunGuide TMC Control Room Operations Intranet (running on a FDOT District 6 web server)
21. Construction Training Qualification Program (CTQP) Website and Management System
22. SMART SunGuide Road Ranger Training Website (running on a FDOT District 4 web server)
23. SMART SunGuide TMC Operator Training Website (running on a FDOT District 4 web server)
24. Resource for Advanced Public Transportation Systems (RAPTS)
25. 11th, 12th, and 13rd TRB National Transportation Planning Applications Conference Websites

Mobile Software Applications

1. Automated Transit Stop Inventory Model (ATSIM) (a combined desktop-PDA system developed for FDOT Public Transit Office)

2. Road Ranger Inspection Program (RRIP) (a Tablet PC system developed for FDOT District 6)
3. Road Ranger Contractor Inspection Program (RRCIP) (a Tablet PC system developed for FDOT District 6)

TECHNICAL WORKSHOPS (AS ORGANIZER/ PRESENTER)

1. *FTIS Workshop*, FDOT District 1, Bartow, September 13, 2010.
2. *FTIS Workshop*, FDOT District 2, Jacksonville, June 10, 2010.
3. *FTIS Workshop*, FDOT District 7, Tampa, February 1, 2010.
4. *FTIS Workshop*, FDOT District 4, West Palm Beach, December 10, 2009.
5. *FTIS Workshop*, FDOT District 5, Deland, October 2, 2009.
6. *FTIS Workshop*, FDOT Central Office, Tallahassee, June 15, 2009.
7. *ATSIM Workshop*, Jacksonville Transportation Authority, Jacksonville, Florida, March 23, 2006.
8. *ATSIM Workshop*, District 3 FDOT, Chipley, Florida, March 22, 2006.
9. *ATSIM Workshop*, District 7 FDOT, Tampa, Florida, March 15, 2006.
10. *ATSIM Workshop*, District 5 FDOT, Orlando, Florida, March 14, 2006.
11. *ATSIM Workshop*, District 1 FDOT, Bartow, February 24, 2006.
12. *ATSIM Workshop*, District 4 FDOT, Fort Lauderdale, February 17, 2006.
13. *FTIS 2004 Workshop*, District 1 FDOT, Bartow, Florida, January 18, 2005.
14. *FTIS Workshop*, FIU Engineering Center, Miami, Florida, November 2004.
15. *FTIS Workshop*, FIU Engineering Center, Miami, Florida, December 2002.

HIGH SCHOOL SUMMER TRANSPORTATION CAMPS (AS ORGANIZER/ INSTRUCTOR)

1. *2015 Summer Transportation Camp*, July 13-24, 2015, co-sponsored by the National Center for Transportation Systems Productivity and Management (NCTSPM) and the Accelerated Bridge Construction University Transportation Center (ABC-UTC), USDOT.
2. *2014 Summer Transportation Camp*, July 14-25, 2014, sponsored by the National Center for Transportation Systems Productivity and Management (NCTSPM), USDOT.

INVITED TALKS/PRESENTATIONS

1. *FSUTMS Standard Report Tool*, Florida Model Task Force (MTF) Model Advancement Committee, March 3, 2016.
2. *Rural Integrated National Transit Database Analysis System (Rural INTDAS)*, National Webinar organized by the Rural Transit Assistance Program, June 24, 2015.
3. *Web-Based System for Quick Access and Analysis of Rural National Transit Database*, National Rural Conference on Rural Public and Intercity Bus Transportation, October 26-29, 2014.
4. *Florida Transit Information System*, Florida Transportation Data Symposium, Orlando, Florida, October 23-24, 2014.
5. *Traffic Safety*, Workshop for Hainan (China) Delegation, October 21, 2014.
6. *Roundabouts and Access Management*, UTC Conference for the Southeast Region, Orlando, Florida, April 4-5, 2013 (co-presented with Ms. Amy Cavaretta).
7. *TCRP Report 141 Webinar on Transit Benchmarking*, National Transit Institute, December 13, 2012 (co-presented with four others).
8. *Integrated National Transit Database Analysis System*, Standout Modeling and Technology Applications Session, National Planning Conference, Boston, April 9-12, 2011.
9. *Optimization Models for Prioritizing Bus Stop Facility Investments for Riders with Disabilities*, National Webinar, National Transit Institute, August 25, 2010 (co-presented with Dr. Wanyang Wu).

10. *FSUTMS Data Framework*, Florida Model Task Force Meeting, Orlando, May 25-27, 2010.
11. *Transportation Data*, Meet the Researchers Meeting, Florida International University, April 20, 2010.
12. *Information Technology Applications in Transportation Engineering*, Chi Epsilon Civil Engineering Honor Society Meeting, Florida International University, March 12, 2010.
13. *Transportation Data Made Easy*, Transportation Research Center Seminar Series, University of Florida, November 12, 2009.
14. *FSUTMS Standard Reports*, Florida Model Task Force (MTF) Annual Meeting, Orlando, November 9-10, 2009.
15. *FSUTMS Master Network System*, Southeast Florida FSUTMS User Group Meeting, August 7, 2009.
16. *Transportation Data Research and Development*, University of Shanghai of Science and Technology, March 2009.
17. *Florida Traffic Safety Online*, District Safety Engineers (DSE) Web Meeting, Florida Department of Transportation, February 2009.
18. *Development of a Prototype GIS Master Network System for FSUTMS*, GIS Committee Web Meeting, Florida Model Task Force Annual Meeting, November 2008.
19. *FSUTMS GISonline: Where Do We Go from Here*, Florida Model Task Force Annual Meeting, Orlando, November 2007.
20. *SMART SunGuide Road Ranger Training*, FDOT District 4 Project Status Update Meeting, Broward County Transportation Management Center, November 16, 2005.
21. *Florida Transit Information System*, Transit Advisory Group (TAG) Meeting, District 7 Florida Department of Transportation, Tampa, January 19, 2005.
22. *Updates on Florida Transit Information System*, FPTA Annual Meeting, Tampa, Florida, November 2004.
23. *Emerging Technology and Education in Transportation Engineering*, FIU Emerging Technologies and Engineering Education Workshop, FIU College of Engineering, November 2004.
24. *Florida Transit Information System Version 2004*, National Transit Database Reporting and Data Collection Seminar, Tampa, Florida, August 2004.
25. *Updates on Florida Transit Information System*, FPTA/CUTR Professional Development, Tampa, Florida, June 2004.
26. *Operational Performance Models for Truck Lane Restrictions*, FDOT Meeting on Special Lane Strategies, Orlando, 2003.
27. *Analysis of Transit Performance Data Using the Florida Transit Information System*, FPTA/CUTR Professional Development, Tampa, Florida, June 2003.
28. *Florida Transit Information System (FTIS)*, Transit Program Workshop, District One Florida Department of Transportation, Bartow, Florida, March 2003.
29. *Florida Transit Information System (FTIS)*, National Transit Database Workshop, Center for Urban Transportation Research (CUTR), Tampa, Florida, August 2002.
30. *Florida Transit Information System (FTIS)*, National Transit Database Workshop, Orlando, Florida, May 2001.

PERSONNEL HIRED/SUPERVISED (FUNDED BY SPONSORED RESEARCH)

Research Associates and Post-Doctoral Research Fellows

1. *Dr. Priyanka Alluri* (B.S., M.S., and Ph.D. in Civil Engineering), Research Associate, July 2011-December 2014.
2. *Dr. Feng Gui* (B.S., M.S., and Ph.D. in Computer Engineering), Computer Engineer, May 2006-March 2013.

3. *Dr. Kirolos Haleem* (B.S., M.S., and Ph.D. in Civil Engineering), Research Associate, April 2010-July 2014.
4. *Dr. Sijong Jo* (B.S., M.S. and Ph.D. in Civil Engineering), Research Associate, September 2003-November 2003.
5. *Dr. Rax Jung* (M.S. in Environmental Engineering, B.S. and Ph.D. in Civil Engineering), Post-Doc Research Fellow, September 2003-July 2006.
6. *Dr. Kaiyu Liu* (B.S. and M.S. in Computer Science, Ph.D. in Civil Engineering), Senior Research Associate, August 2001-July 2016.
7. *Dr. Wanyang Wu* (B.S., M.S. and Ph.D. in Civil Engineering), Research Associate, June 2009-Present.
8. *Dr. Chengjun (Jim) Zhan* (B.S. and M.S. in Computer Science, Ph.D. in Civil Engineering), Research Associate, January 2007-December 2008.
9. *Dr. Xiaogang Zeng* (M.S. in Engineering Science and Mechanics, Ph.D. in Civil Engineering), Research Associate, July 2002-May 2004.

Visiting Scholars

1. *Ms. Meng Ma* (B.S. and M.S. in Computer Science), Visiting Scholar, February 2008-December 2009.
2. *Mr. Huibo Yang* (B.S. and M.S. in Computer Science), Visiting Scholar, February 2007-January 2008.
3. *Ms. Wen Yi* (B.S. in Computer Science), Visiting Scholar, August 2006-December 2007.

Full-Time Professionals

1. *Mr. Atiosis Blanco* (B.S. in Industrial Design), Graphic Designer/Multimedia Specialist, February 2006-April 2012, January 2014-Present.
2. *Ms. Yamilet Diaz* (B.S. in Civil Engineering, M.S. Student), TMC Assistant, May 2011-August 2013.
3. *Ms. Shangling Ding* (B.A. in Arts), Multimedia Specialist, January 2003-Present.
4. *Mr. Rossi Gaudio* (B.S. in Mathematics and M.S. in Civil Engineering), TMC Assistant, July 2009-September 2009.
5. *Ms. Maria Guevara*, Research Associate, January 2015-Present
6. *Mr. Junior Henry* (B.S. in Civil Engineering, M.S. Student), TMC Assistant, January 2013-June 2013.
7. *Mr. Yamil Kury*, (B.S. and M.S. in Civil Engineering), TMC Assistant, May 2008-June 2009.
8. *Mr. David Llana*, (B.S. in Biomedical Engineering), TMC Assistant, May 2011-October 2011.
9. *Ms. Meng Ma*, (B.S. and M.S. in Computer Science, M.S. in Civil Engineering), Research Associate, August 2011-March 2013.
10. *Mr. Mark Mandell*, Professional Editor/Writer, July 2007-June 2008.
11. *Mr. Alejandro Motta* (B.S., and M.S. in Civil Engineering), TMC Assistant, September 2009-October 2010.
12. *Mr. Omar Terrero* (M.S. in Telecommunication and Networking), TMC Assistant, May 2009-June 2010.
13. *Ms. Tiffany Fajardo*, Professional Editor/Writer, August 2009-July 2011.
14. *Mr. Haifeng Wang* (B.S. and M.S. in Computer Science), Senior Software Engineer, January 2004-Present.
15. *Ms. Jun Zheng* (B.S. in Computer Science), Senior Software Engineer, January 2000-August 2006.

Graduate Research Assistants

1. *Mr. Sampson Asare*, August 2009-December 2010
2. *Dr. Jie Bian*, August 2006-August 2007
3. *Dr. Lei Cai*, August 2006-December 2007
4. *Mr. Dong Chen*, May 2002-April 2003
5. *Mr. Andres Diaz*, May 2012-August 2012, January 2013-August 2013
6. *Ms. Shangling Ding*, September 2011-February 2012
7. *Mr. Rossi Gaudio*, April 2008-December 2008
8. *Mr. Erik Echezabal*, May 2011-July 2012
9. *Dr. Elio Espino*, January 2002-December 2002
10. *Ms. Homa Fartash*, August 2013-November 2014
11. *Dr. Jimmy Fu*, 2008
12. *Mr. Jose Grullon*, February 2008-May 2009
13. *Ms. Eman Gooma*, August 2002-March 2004
14. *Dr. Javier Gonzalez*, January 2002-December 2002
15. *Mr. Guillermo Gomez*, November 2004-December 2005
16. *Mr. Boyuan Guan*, August 2007-January 2009
17. *Ms. Maria Guevara*, October 2012-December 2014
18. *Mr. Eduardo Guinard*, May 1999-August 2000
19. *Dr. Sijong Jo*, August 2001-August 2003
20. *Mr. Ti'jean Johnston*, August 1999-December 1999
21. *Mr. Jean Lucio Joseph*, August 2010-March 2011
22. *Dr. Tzai-Shian Jung*, January 2001-August 2003
23. *Ms. Sanhita Lahiri*, August 1999-December 1999, May 2000-August 2000
24. *Mr. Mohammad Lavasani*, August 2013-September 2014
25. *Mr. Tang Li*, Summer 2009-October 2013
26. *Mr. Xin Li*, August 2003-December 2004
27. *Ms. Fang Liao*, August 2008-December 2009
28. *Ms. Alexandra Lopez*, July 2011-May 2012
29. *Dr. Jinyan Lu*, August 2008-May 2012
30. *Ms. Meng Ma*, December 2009-August 2011
31. *Mr. Quazi Masood*, August 2000-December 2000
32. *Mr. Manuel Matus*, Summer 2017
33. *Ms. Katrina Meneses*, May 2012-May 2013
34. *Ms. Stephanie Miranda*, May 2012-August 2013
35. *Mr. Alejandro Motta*, August 2008-August 2009
36. *Mr. Jose Morales*, January 2002-December 2002
37. *Mr. Carlton Ng*, January 2015-August 2015
38. *Mr. Jorge Pena*, August 2004-August 2005
39. *Ms. Trang Phan*, March 2013-September 2013
40. *Ms. Anita Pourji*, August 2012-May 2013
41. *Mr. Md Asif Raihan*, January 2014-December 2014
42. *Ms. Adriana Rodriguez*, May 2002-April 2004
43. *Mr. Damien Rose*, August 2003-August 2004
44. *Mr. Eazaz Sadeghvaziri*, August 2013-January 2014
45. *Dr. Dibakar Saha*, August 2011-December 2014
46. *Mr. Diego Sandoval*, January 2004-December 2004
47. *Ms. Emani Saraswathi*, January 2001-April 2002
48. *Dr. Joan Shen*, May 1999-April 2004
49. *Dr. Tao Wang*, January 2007-April 2012

50. *Mr. Hengtong Wei*, May 2007-December 2007
51. *Dr. Wanyang Wu*, August 2004-April 2009
52. *Ms. Yifei Wu*, May 2001-December 2001
53. *Ms. Leticia Xavier*, November 2012-December 2013
54. *Ms. Yujing Xie*, January 2004-April 2005
55. *Mr. Cheng Xu*, January 2006-May 2007
56. *Mr. Guan Yuan*, August 2006-December 2006
57. *Mr. Huanyu Yue*, August 2000-August 2002
58. *Dr. Chengjun Zhan*, Fall 2004-December 2006
59. *Dr. Peng Zhu*, January 2006-December 2006
60. *Ms. Xiaoxia Zhu*, August 2004-May 2006, August 2007-April 2008
61. *Dr. Xuesong Zhu*, May 2005-April 2008

Undergraduate Student Assistants

1. *Mr. Ramon Alvarez*, April 2014-October 2013
2. *Mr. Yves Amisial*, July 2013-September 2013
3. *Mr. David Andrade*, February 2015-March 2016
4. *Mr. Andrew Appel*, 2011-2011, May 2012-August 2012, May 2013-June 2015
5. *Ms. Anamersy Arce*, February 2014-June 2014
6. *Mr. Abe Baaj*, September 2015-May 2016
7. *Mr. Gonzalo Barrera*, May 2017-Present
8. *Mr. Jon-Michael Barquin*, March 2016-May 2017
9. *Mr. Aaron Blitstein*, October 2015-November 2015
10. *Mr. Joshua Cabrera*, February 2015-May 2015
11. *Ms. Paola Cardenas*, three semesters
12. *Mr. Rodney Carrero-Vila*, January 2014-October 2014
13. *Mr. Hugues Charles*, February 2015-May 2015
14. *Mr. Julio Cires*, February 2015-May 2015
15. *Mr. Jorge Cisternas*, October 2016-November 2016
16. *Ms. Ellen Crist*, March 2016-April 2016
17. *Mr. Fernando Dahbura*, April 2016-August 2016
18. *Mr. Andres Diaz*, February 2012-April 2012
19. *Mr. Wessam Domiati*, April 2010-July 2011, June 2012-September 2012
20. *Ms. Ekaete Ekwere*, February 2014-December 2014
21. *Mr. German Etcheverry*, February 2015-May 2015
22. *Mr. Philippe Faucher*, March 2016-April 2016
23. *Ms. Maria Fernandez*, February 2015- November 2015
24. *Ms. Lisandra Fuentes*, May 2016-July 2016
25. *Mr. Romain Gayet*, March-April 2017
26. *Mr. Andrei Giraldo*, October 2004-December 2005
27. *Ms. Adriana Gonzalez*, one semester
28. *Mr. Anthony Gonzalez*, February 2015-May 2015
29. *Mr. Enrique Gonzalez*, February 2015-May 2015
30. *Mr. Hussam Hadi*, August 2013-October 2013
31. *Mr. Hilario Hernandez*, March-April 2017
32. *Mr. Humberto Hernandez*, February 2008-May 2008
33. *Ms. Maria Hernandez*, February 2015-November 2015
34. *Mr. Jean Sebastien Hyppolite*, July 2016-Present
35. *Mr. Ariel Inturias*, March 2016-Present
36. *Mr. Daniel Irigoyen*, October 2015-January 2016

37. *Ms. Wendie James*, September 2003-August 2004
38. *Ms. Vania Jarquin*, September 2015-January 2017
39. *Ms. Chavely Jimenez*, April 2014-January 2014
40. *Mr. Michael Johnson*, February 2015-May 2015
41. *Mr. Nathaniel Jones*, February 2017-Present
42. *Mr. Pedro Laguna*, October 2015- November 2015
43. *Ms. Liana Lantigua*, June 2015-August 2015
44. *Mr. Ashtone Lazarre*, February 2017-Present
45. *Ms. Misleidys Leon*, June 2004-December 2004
46. *Mr. Kuong Leong*, April 2014-December 2014
47. *Mr. Djemcy Limage*, February 2014-June 2014
48. *Ms. Alexandra Lopez*, April 2010-June 2010
49. *Mr. Daniel MacKinnon*, July 2016-November 2016
50. *Mr. Dominic Marentes*, February 2015-May 2015
51. *Mr. Elvis Martinez*, October 2015- November 2015
52. *Ms. Katherine Marquez*, February 2014-June 2014
53. *Mr. Josue Menendez*, April 2014-June 2014
54. *Ms. Katrina Meneses*, March 2012-April 2012
55. *Ms. Stephanie Miranda*, February 2012-April 2012
56. *Mr. Borys Monzon*, October 2015-September 2016
57. *Mr. Alejandro Motta*, May 2007-August 2008
58. *Mr. Warebi Okoinyan*, February 2015-May 2015
59. *Mr. Carlos Olivera*, May 2016-Present
60. *Mr. Rene Ontivero*, November 2006-May 2007
61. *Mr. Pablo Orozco*, March 2006-February 2007
62. *Ms. Dorielis Padron*, February 2015-March 2016
63. *Mr. Zhenglin Pan*, February 2015-May 2015
64. *Mr. Robert Perez*, February 2015-May 2015
65. *Ms. Kimberlie Rabara*, October 2016-January 2017
66. *Mr. Jose Rivera*, March 2006-November 2007
67. *Mr. Elmer Rodriguez*, February 2014-October 2014
68. *Mr. Roberto Rodriguez*, May 2014-August 2014
69. *Mr. Daniel Roman*, February 2015-August 2015
70. *Ms. Rachel Ruiz*, August 2012-December 2012
71. *Mr. Alvaro Saenz Sheen*, May 2017-Present
72. *Mr. Gilbert Soles*, October 2016-November 2016
73. *Mr. Fabio Soto*, October 2016-Present
74. *Mr. Daniel Torres*, March-April 2017
75. *Mr. David Torres*, 2010-2011
76. *Mr. Rigenson Tout-Puissant*, March-April 2017
77. *Mr. Smiley Urena*, May 2017-Present
78. *Ms. Martha Vega*, two semesters
79. *Ms. Emelyn Venturini*, January 2014-December 2014

COURSES TAUGHT

Florida International University

Semester	Courses	Enrollment
Spring 99	CGN 4930 Sp. Topic: Civil Engineering Systems TTE 5607 Transportation Demand Analysis	10

		04
Summer 99	TTE 4201 Transportation and Traffic Engineering	30
Fall 99	TTE 4201 Transportation and Traffic Engineering	18
	TTE 5205 Advanced Highway Capacity Analysis	13
Spring 00	TTE 4201 Transportation and Traffic Engineering**	20
	TTE 5607 Transportation Demand Analysis	17
Summer 00	TTE 4201 Transportation and Traffic Engineering	12
Fall 00	TTE 4201 Transportation and Traffic Engineering	23
	TTE 6257 Traffic Control Systems Design	25
Spring 01	TTE 4201 Transportation and Traffic Engineering**	36
	TTE 5607 Transportation Demand Analysis	16
Summer 01	CGN 4930 Sp. Topic: Highway Capacity Analysis**	06
	TTE 5205 Advanced Highway Capacity Analysis**	19
Fall 01	TTE 6257 Traffic Control Systems Design	08
	TTE 4201 Transportation and Traffic Engineering*	34
Spring 02	TTE 4201 Transportation and Traffic Engineering*	43
Fall 02	TTE 5205 Advanced Highway Capacity Analysis	26
Spring 03	TTE 6257 Traffic Control Systems Design	29
Fall 03	TTE 5205 Advanced Highway Capacity Analysis	14
Spring 04	TTE 6257 Traffic Control Systems Design	14
Summer 04	TTE 4201 Transportation and Traffic Engineering**	41
Fall 04	TTE 4203 Highway Capacity Analysis	22
	TTE 5205 Advanced Highway Capacity Analysis	22
Spring 05	TTE 6257 Traffic Control Systems Design**	18
Summer 05	TTE 4201 Transportation and Traffic Engineering	29
Fall 05	TTE 4201 Transportation and Traffic Engineering	37
Spring 06	TTE 4203 Highway Capacity Analysis	17
	TTE 5205 Advanced Highway Capacity Analysis**	17
Summer 06	TTE 4201 Transportation and Traffic Engineering	20
Fall 06	TTE 6257 Traffic Control Systems Design**	20
Spring 07	TTE 4201 Transportation and Traffic Engineering	35
Fall 07	TTE 5205 Advanced Highway Capacity Analysis**	28
Spring 08	TTE 6257 Traffic Control Systems Design	22
Fall 08	TTE 5205 Advanced Highway Capacity Analysis	18
Spring 09	TTE 6257 Traffic Control Systems Design**	16
Fall 09	TTE 5205 Advanced Highway Capacity Analysis**	10
Spring 10	TTE 6257 Traffic Control Systems Design**	16
Fall 10	TTE 6257 Traffic Control Systems Design	07
Spring 11	TTE 5205 Advanced Highway Capacity Analysis**	20
Fall 11	TTE 6257 Traffic Control Systems Design**	10
Spring 12	TTE 5205 Advanced Highway Capacity Analysis	09
Fall 12	TTE 6257 Traffic Control Systems Design**	20
Spring 13	TTE 5205 Advanced Highway Capacity Analysis**	21
Fall 13	TTE 6257 Traffic Control Systems Design	15
Spring 14	TTE 5205 Advanced Highway Capacity Analysis	11
Fall 14	TTE 6257 Traffic Control Systems Design	06

Spring 15	TTE 5205 Advanced Highway Capacity Analysis	04
Fall 15	TTE 6257 Traffic Control Systems Design	09
Spring 16	TTE 4201 Transportation and Traffic Engineering**	51
Fall 16	TTE 6257 Traffic Control Systems Design	02
Spring 17	TTE 5205 Advanced Highway Capacity Analysis**	09
	CGN 6939 Graduate Seminar	13

* Co-taught with graduate students. ** Includes a FEEDS distance-learning section.

University of Florida

Semester	Courses	Enrollment
Fall 94	TTE 5006 Transportation Systems Planning	11
Fall 95	CGN 5315 Civil Engineering Systems	09
Spring 96	TTE 5805 Geometric Design of Highway Facilities	07
Fall 96	CGN 5315 Civil Engineering Systems	07
Fall 97	CGN 5315 Civil Engineering Systems	05
Fall 98	CGN 5315 Civil Engineering Systems	14

DOCTORAL STUDENTS

As Major Professor

1. *Dr. Tzai-Shian Jung*, P.E. (District 10 Second-Place Poster Presentation Award), “Incorporating Peak-to-Daily Ratios into the Equilibrium Traffic Assignment of Florida Standard Urban Transportation Modeling Structure (FSUTMS),” Summer 2003 (Co-major Professor: Dr. David Shen).
2. *Dr. Sijong Jo*, P.E. (Korea) “Operational Performance Models for Freeway Truck Lane Restrictions,” Summer 2003.
3. *Dr. Javier Gonzalez*, P.E., PTOE, “Effects of Roadway Geometric Features on Run-Off-Road Crashes on the Florida State Highway System,” Fall 2004 (Co-major Professor: Dr. Golam Kibria).
4. *Dr. Elio Espino*, P.E., PTOE, (College of Engineering Outstanding Ph.D. Graduate) “Investigation of the Causes of Serious Injury and Fatal Crashes: An Analysis Using Econometric Models,” Spring 2005 (Co-advisor: Dr. Golam Kibria).
5. *Dr. Guangwei Zhou*, P.E. (FIU Presidential Fellowship, FIU Dissertation Year Fellow, District 10 Best Poster Presentation Award, District 10 Second Place Best Student Paper Award, Gold Coast ITE Chapter Best Essay Award), “Optimization of Adaptive Traffic Signal Control System with Transit Signal Priority Using Parallel Genetic Algorithm,” Spring 2006.
6. *Dr. Chengjun Zhan*, P.E. (International ITE Student Best Paper Award, District 10 ITE Student Best Paper Award, Gold Coast Chapter Best Essay Award, Bill McGrath Transportation Scholar), “Development of Prediction Models for Freeway Incident Durations Using Data Mining Techniques,” Fall 2006.
7. *Dr. Joan Shen*, P.E., PTOE, (Gates Millennium Scholarship, Eno Transportation Scholar, Bill McGrath Transportation Scholarship, International ITE Student Best Paper Award, District 10 ITE Student Best Paper Award), “Development of Florida Specific Safety Performance Functions for Empirical Bayes Estimation of Crash Reduction Factors,” Spring 2007.
8. *Dr. Kaiyu Liu*, E.I., “Estimation and Prediction of Average Vehicle Occupancies Using Traffic Accident Records,” Fall 2007.
9. *Dr. Peng Zhu*, P.E. (FIU Presidential Fellowship, FSITE/ITS Florida Best Student Presentation),

- “An Automatic Tuning Strategy for Local Fuzzy Logic Ramp Metering Algorithm Using Particle Swarm Optimization (PSO), Spring 2008.
10. *Dr. Xuesong Zhu*, P.E. (District 10 Best Student Paper Award, Gold Coast ITE Chapter Second Place Best Essay Award), “Design Strategies for an Artificial Neural Network Based Algorithm for Automatic Incident Detection on Major Arterial Streets,” Spring 2008.
 11. *Dr. Jie Bian*, P.E. (FIU Presidential Fellowship, FSITE/ITS Florida Best Student Presentation), “Predicting Percent Delay Reductions from Freeway Traffic Diversion for Incident Management,” Spring 2008 (Co-major Professor: Dr. Mohammed Hadi).
 12. *Dr. Wanyang Wu* (Bill McGrath Transportation Scholarship, Best ITE Student Chapter Award while serving as chapter president, District 10 ITE Student Best Paper Award), “Optimization Models for Selecting Bus Stops for Accessibility Improvements for People with Disabilities,” Spring 2009.
 13. *Dr. Lixin Huang*, “Predicting Hurricane Evacuation Decisions: When, How Many, and How Far,” Summer 2011.
 14. *Dr. Tao Wang*, “Improved Annual Average Daily Traffic (AADT) Estimation for Local Roads using Parcel-Level Travel Demand Modeling,” Spring 2012.
 15. *Dr. Shanshan Yang*, “Improving Seasonal Factor Estimates for Adjustment of Annual Average Daily Traffic,” Summer 2012.
 16. *Dr. Jinyan Lu* (Best ITE Student Chapter Award while serving as chapter president; District 10 ITE Best Student Paper Award, Bill McGrath Transportation Scholarship, FIU Dissertation Year Fellowship Award), Development of Safety Performance Functions for *SafetyAnalyst* Applications in Florida, Spring 2013.
 17. *Dr. Dibakar Saha*, “Improved Criteria for Estimating Calibration Factors for Highway Safety Manual (HSM) Applications,” Fall 2014.
 18. *Mr. Li Tang*, “Automatic Extraction of Number of Lanes from Aerial Images for Transportation Applications,” Summer 2015.
 19. *Mr. Md Asif Raihan*, TBD (Co-major advisor: Priyanka Alluri)

As Committee Member

1. *Dr. Hesham Elbadrawi*, “A Computer Simulation Model for Single-Lane Roundabouts,” Fall 2000 (Major Professor: Dr. David Shen).
2. *Dr. Jiun-Jia Hsu*, “A Planning Guide for Medium-Capacity Transit Systems,” Summer 2003 (Major Professor: Dr. David Shen).
3. *Dr. Soon Chung*, “Identify Equilibrium of Land Use and Transportation Investments Using Spatiotemporal Analysis Tools,” Fall 2003 (Major Professor: Dr. Fang Zhao).
4. *Dr. Nokil Park*, “Estimation of Average Annual Daily Traffic (AADT) Using Geographically Weighted Regression (GWR) Method and Geographic Information Systems (GIS),” Spring 2004 (Major Professor: Dr. Fang Zhao).
5. *Dr. Rosa Hsu*, “Capacity-Based Cost Modeling for Light-Rail and Bus Rapid Transit Systems,” (Major Professor: Dr. David Shen).
6. *Dr. Jingtao Shan*, “Spatial-Temporal Mining of Archived Automatic Vehicle Location (AVL) Data for Transit Service Planning Applications,” Summer 2006 (Major Professor: Dr. Fang Zhao).
7. *Dr. Fabian Cevallos*, “Optimization of Transit Transfer Times: A System-wide Approach,” Fall 2006. (Major Professor: Dr. Fang Zhao).
8. *Dr. Xuemei Liu*, “An Investigation of Location Effect on Trip Production using Artificial Neural Networks,” Fall 2006 (Major Professor: Dr. Fang Zhao).
9. *Dr. Ding Zhen*, “A Static Traffic Assignment Model Combined with an Artificial Neural Network Delay Model,” Fall 2007 (Major Professor: Dr. Fang Zhao).
10. *Dr. Jing Qi*, “Application of Intervention Analysis to Evaluate the Impacts of Special Events on

- Freeways,” (Major Professor: Dr. Fang Zhao).
11. *Dr. Luou Shen*, “Freeway Travel Time Estimation and Prediction Using Dynamic Neural Networks,” Summer 2008 (Major Professor: Dr. Mohammed Hadi).
 12. *Dr. Chenxi Lu*, “Improving Analytical Travel Time Estimation for Transportation Planning Models,” Summer 2010 (Major Professors: Drs. Fang Zhao and Mohammed Hadi).
 13. *Dr. Hongbo Chi*, “An Improved Framework for Dynamic O-D Estimation,” Fall 2010 (Major Professors: Dr. Fang Zhao and Mohammed Hadi).
 14. *Dr. Yan Xiao*, “Hybrid Approaches to Estimating Freeway Travel Times Using Point Traffic Detector Data,” Spring 2011 (Major Professor: Dr. Mohammed Hadi).
 15. *Dr. Patricio Alvarez*, “A Methodology to Estimate Time Varying User Responses to Travel Time and Travel Time Reliability in a Road Pricing Environment,” Spring 2012 (Major Professor: Dr. Mohammed Hadi).
 16. *Dr. Shaghayegh Shabaniyan*, “Advanced Methodologies in Dynamic Traffic Assignment Modeling of Managed Lanes,” Spring 2014 (Major Professor: Dr. Mohammed Hadi).
 17. *Dr. Ali Darroudi*, “Variable Speed Limit Strategies to Reduce the Impacts of Traffic Flow Breakdown at Recurrent Freeway Bottlenecks,” Fall 2014 (Major Professor: Dr. Mohammed Hadi).
 18. *Dr. Hamidreza Asgari*, “On the Impacts of Telecommuting over Daily Activity/Travel Behavior: A Comprehensive Analysis through Different Telecommuting Patterns,” Summer 2015 (Major advisor: Xia Jin).
 19. *Dr. Qom Somaye Fakharian*, “Multi-Resolution Modeling of Managed Lanes with Consideration of Autonomous/Connected Vehicles,” Summer 2016 (Major Professor: Dr. Mohammed Hadi).
 20. *Dr. Xuanwu Chen*, “A Framework For Recommending Signal Timing Improvements Based On Automatic Vehicle Matching Technologies,” Fall 2016 (Major Professor: Dr. Mohammed Hadi).
 21. *Dr. Jianmin Jia*, Spring 2017 (Major Professor: Dr. Mohammed Hadi).

MASTER’S STUDENTS

As Major Advisor

1. *Ms. Ana Maria Calleja*, “Signal Timing Improvements for a Section of Miami Avenue,” December 1999.
2. *Ms. Joan Shen*, “Minimum Merging Section Lengths for Triple Left-Turn Lanes with Downstream Land Reductions,” June 2000.
3. *Mr. Eduardo Guinard*, “Safety Analysis of Triple Left-turn Lanes,” December 2000.
4. *Mr. Javier Gonzalez*, “Intersection Improvements: A Comprehensive Case Study,” December 2000.
5. *Ms. Sanhita Lahiri* (District 10 Second Place Student Paper Award), “Estimating Speed Improvements from Simple Ramp Metering at On-Ramp Junctions,” December 2000.
6. *Mr. Stanley Edwards*, “Induced Traffic: Concepts and Implementation,” December 2000.
7. *Ms. Emani Saraswathi*, “Transit Performance Analysis,” Spring 2002.
8. *Mr. Huanyu Yue* (District 10 Best Student Paper Award), “Development of Operational Performance Models for Bus Lane Preferential Treatments,” August 2002.
9. *Mr. Edwin Mojena*, “SR 874 Traffic Analysis and Optimization,” December 2002.
10. *Mr. Dong Chen*, “Systems Engineering: A Proactive Way of Integrating ITS Systems,” Summer 2003.
11. *Mr. Javier Rodriguez*, “Evaluation of Estimated Speeds at Ramp Junctions from the Highway Capacity Manual Procedures,” Summer 2003.
12. *Ms. Adriana Rodriguez*, “Development of Accident Modification Factors for Florida,” Spring 2004.
13. *Ms. Eman Gomaa*, “Development of Transit Performance Measures Using Automatic Vehicle

- Location (AVL) Archived Data,” Spring 2004.
14. *Mr. Eugenio Lopez*, “Analysis of Canal Crashes and Roadside Barrier Design,” Spring 2004.
 15. *Mr. Damien Rose*, “Development and Evaluation of Freeway Diversion Route Plans along State Road 826 at High Crash Segments”, Summer 2004.
 16. *Mr. Jacques Defrant*, “Impacts of Leading versus Lagging Left-turn Phasing on Approach Delay,” Fall 2004.
 17. *Mr. Xin Li*, “Automated Vehicle Occupancy Field Data Collection System,” Fall 2004.
 18. *Ms. Yujing Xie*, “Analysis of Transit Safety and Security Data from the National Transit Database”, Summer 2005.
 19. *Mr. Jorge Pena*, “Reporting Requirements of Human Transportation Services”, Fall 2005.
 20. *Ms. Xiaoxia Zhu*, “Vehicle Occupancy Data Collection and Analysis Methods, Spring 2006.
 21. *Mr. Cheng Xu*, “Implementation of Automated Adjustment of Fuzzy-Logic Ramp Metering Algorithm Parameters”, Spring 2007.
 22. *Mr. Carlos Verson*, “Simulation Evaluation of Effective Downstream Length of Passing Lanes in the Highway Capacity Manual (HCM) Analysis Procedure for Two-Lane Highways,” Spring 2007.
 23. *Mr. Lei Cai*, “An Improved Method for Transit Peer Selection,” Fall 2007.
 24. *Mr. Hengtong Wei*, “Integration of Google Maps with ArcGIS Server for Transportation Planning Applications,” Fall 2007.
 25. *Mr. Guan Yuan*, “Applying GPS Tracking Technology to Reduce Missed Trips in Paratransit Services,” Fall 2007 (Co-Advisor: Fabian Cevallos)
 26. *Mr. Yamil Kury*, “Evaluation of Travel Time Estimates for Dynamic Message Sign (DMS) Display,” Fall 2008.
 27. *Mr. Boyuan Guan*, “A Framework for Integrating GIS Web Functions for Transportation Applications,” Spring 2009.
 28. *Mr. Jose Grullon*, “Evaluation of Speeds and Volumes Before and After Ramp Signaling on Northbound I-95 in Miami-Dade County,” Summer 2009.
 29. *Ms. Fang Liao*, “A Procedure for Ranking Safe Routes to School Projects,” Fall 2009.
 30. *Mr. Sampson Asare*, A State-of-the-Practice Review of Red Light Cameras: Methods, Effectiveness, and Research Needs,” Fall 2010.
 31. *Mr. Jankristof Devastey*, “Critical Review of Traffic Safety Practices and Needs in Florida Department of Transportation District VI,” Fall 2010.
 32. *Mr. Jose Cruz*, “Determination of Ramp Metering Rates for Manual Tuning Under Incident Conditions,” Summer 2011.
 33. *Ms. Meng Ma*, “Development of a Geographic Information System for *SafetyAnalyst* for Florida Applications,” Summer 2011.
 34. *Ms. Claudia Diaz*, “Compilation and Assessment of Traffic Volume Data for Non-State Roads in Florida,” Summer 2011.
 35. *Mr. Marcenel Joseph*, “Potential Applications of Hybrid Signs,” Fall 2011.
 36. *Mr. Marco Lux*, “New Applications on Hybrid Static-Dynamic Signs,” Fall 2011.
 37. *Ms. Shanghong Ding*, Spring 2012.
 38. *Mr. Erik Echezabal*, Spring 2012.
 39. *Mr. Andres Diaz*, Summer 2013.
 40. *Ms. Stephanie Miranda*, Summer 2013.
 41. *Ms. Katrina Meneses*, Summer 2013.
 42. *Ms. Anita Pourji*, Fall 2013.
 43. *Ms. Maria Guevara*, December 2014.

As Committee Member

1. *Mr. James M. Krzeminski* (Civil Engineering, UF, Fall 1996)

2. *Dr. Jin Tae Kim* (Civil Engineering, UF, Spring 1997)
3. *Mr. Richard Schnabel* (Civil Engineering, UF, 1998)
4. *Ms. Divina M. Ruiz* (Civil Engineering, UF, 1998)
5. *Mr. Brett W. Blackadar* (Civil Engineering, UF, 1998)
6. *Mr. Dhyana Appachu* (Civil Engineering, UF, 1998)
7. *Ms. Jennifer Marie Cato* (Civil Engineering, UF, 1998)
8. *Mr. Patrick Marchant* (Industrial and Systems Engineering, FIU, 2002)
9. *Mr. Sheng Yang* (Civil Engineering, FIU, 2002)
10. *Mr. Xiaofeng Xu* (Civil Engineering, University of Miami, 2002)
11. *Ms. Elizabeth Lopez* (Industrial and Systems Engineering, FIU, 2003)
12. *Ms. Yifei Wu* (Civil Engineering, FIU, 2003)
13. *Mr. Omar Meitin* (Industrial and Systems Engineering, FIU, 2003)
14. *Ms. Claudia Lamus* (Civil Engineering, FIU, 2004)
15. *Mr. Arvind Kumar* (Industrial and Systems Engineering, FIU, 2005)
16. *Mr. Hui Zhao* (Civil Engineering, FIU, 2007)
17. *Mr. Vijay Kumar* (Civil Engineering, FIU, 2007)
18. *Mr. Patricio Alvarez* (Civil Engineering, FIU, 2008)
19. *Ms. Dilnaha Shuvo* (Civil Engineering, FIU, 2008)
20. *Ms. Jaya Lakshmi Kunisetty* (Civil Engineering, FIU, 2008)
21. *Mr. Venkata Punati* (Civil Engineering, FIU, 2008)
22. *Ms. Anusha Balineni* (Civil Engineering, FIU, 2008)
23. *Mr. Vamsee Tirunagari* (Civil Engineering, FIU, 2008)
24. *Mr. Claudio Diaferia* (Civil Engineering, FIU, 2008)
25. *Mr. Manuel Fontan* (Civil Engineering, FIU, 2008)
26. *Mr. Rossi Gaudio* (Civil Engineering, FIU, 2008)
27. *Mr. Veerender Thakur* (Civil Engineering, FIU, 2008)
28. *Mr. Elius Nortelus* (Civil Engineering, FIU, 2009)
29. *Mr. Swaroop Vasireddy*, (Civil Engineering, FIU, 2009)
30. *Mr. Mohamed Mabrouk* (Civil Engineering, FIU, 2009)
31. *Mr. Huijing Qiang* (Civil Engineering, FIU, 2009)
32. *Mr. Naresh Machavarapu* (Civil Engineering, FIU, 2009)
33. *Mr. Vamshi Animalla* (Civil Engineering, FIU, 2010)
34. *Mr. Sudheer Chinta* (Civil Engineering, FIU, 2010)
35. *Mr. Keqiang Xing* (Civil Engineering, FIU, 2010)
36. *Mr. Harish Sarikonda* (Civil Engineering, FIU, 2010)
37. *Ms. Jenny Toruno* (Civil Engineering, FIU, 2010)
38. *Ms. Aishwharya Ragh* (Civil Engineering, FIU, 2010)
39. *Mr. Bernardo Bieler* (Civil Engineering, FIU, 2011)
40. *Mr. Charles Duverge* (Civil Engineering, FIU, 2011)
41. *Mr. Gaby Espiridon* (Civil Engineering, FIU, 2011)
42. *Mr. Jeffrey Gropper* (Civil Engineering, FIU, 2011)
43. *Mr. Jean Lucio Christian Joseph* (Civil Engineering, FIU, 2011)
44. *Ms. Tanya Jackson* (Civil Engineering, FIU, 2011)
45. *Mr. Alejandro Ortega* (Civil Engineering, FIU, 2011)
46. *Mr. Miguel Olivares* (Civil Engineering, FIU, 2011)
47. *Mr. Raghavendra Khadakhavi* (Civil Engineering, FIU, 2012)
48. *Mr. Pei Hu* (Civil Engineering, FIU, 2013)
49. *Ms. Eileen Cabrera* (Civil Engineering, FIU, 2014)
50. *Mr. Zhaohan Zhang* (Civil Engineering, FIU, 2014)
51. *Ms. Nishat Zaman* (Civil Engineering, FIU, 2014)
52. *Ms. Trang Phan* (Civil Engineering, FIU, 2015)

53. *Ms. Melissa Ackert* (Civil Engineering, FIU, 2015)
54. *Mr. Mikhail Ryabov* (Civil Engineering, FIU, 2016)
55. *Ms. Maria Fernandez* (Civil Engineering, FIU, 2016)
56. *Ms. Wilmide Vernet* (Civil Engineering, FIU, 2016)