

Curriculum Vitae

Fabian Cevallos, Ph.D.

Transit Program Director
Associate Research Professor
Lehman Center for Transportation Research
Florida International University
10555 W. Flagler Street, EC 3609
Miami, FL 33174

(305) 348-3144 (Tel)
(954) 234-4183 (Cell)
(305) 348-2802 (Fax)
Email: fabian.cevallos@fiu.edu
LCTR: <http://lctr.eng.fiu.edu>

Areas of Interest

Advanced Public Transportation Systems (APTS), ITS, Transit Planning and Operations, Traffic Safety, Driving Simulation, Transportation for Special Populations, Data Analysis, Statistics, Database Systems, Evolutionary Algorithms, Business Intelligence, Data Mining, and Information Technology.

Education

Ph.D. Civil Engineering (Transportation), December 2006
Florida International University, Miami, FL

Postgraduate Studies in Transportation Engineering
University of Nevada Las Vegas, Las Vegas, NV (1993-1994)

M.S. Civil Engineering (Transportation), May 1993
San Jose State University, San Jose, CA

B.S. Civil Engineering, November 1985
Guayaquil State University, Ecuador

Experience

Transit Program Director, Associate Research Professor

Lehman Center for Transportation Research, Miami, FL

7/06 – Present

Establish a transit program for the Lehman Center for Transportation Research (LCTR) at Florida International University (FIU). Write proposals and seek funding for research projects, manage program budget, develop innovative ideas that use transit strategies and technology to help improve transit efficiencies, participate in national research groups, and oversee researchers, consultants, and graduate students. Project sponsors include the United States Department of Transportation (US DOT), Federal Transit Administration (FTA), the Florida Department of Transportation (FDOT), the Center for Urban Transportation Research (CUTR), the National Center for Transit Research (NCTR), Miami-Dade Transit (MDT), and Miami-Dade County Public Works.

Co-Director of the Driving Simulation Lab to conduct multidisciplinary research and supported by the College of Engineering and Computing, the College of Nursing and Health Sciences, and the Division of Research. The Lab facilitates research in the areas of transportation safety, driving performance, driver behavior, mobility, vehicle technologies and their effect on driving, congestion, and individual and public safety.

FIU representative to the National Center for Transit Research (NCTR) Consortium. NCTR is one of the 22 national University Transportation Centers (UTCs) designated by

the U.S. Department of Transportation. The goal is to advance research and education programs that address critical transportation challenges facing the nation. It supports the priorities of the U.S. Department of Transportation (DOT) and the participating universities are a critical part of the national transportation strategy.

Senior Research Associate

Center for Urban Transportation Research, Tampa, FL

10/02 – 7/06

Provide technical assistance to several transit agencies in Florida. Principal Investigator of the RAPTS (Resource for APTS) program sponsored by FDOT Central Office, Public Transit Office. Assist Florida International University in the development of an Automated Bus Stop Inventory. Projects include Automatic Passenger Counters (APCs), Electronic Fare Collection Systems, Automatic Vehicle Location System (AVL), Bus Stop Inventory, Geographic Information Systems (GIS), Real-Time Information Systems, APTS and IT/ITS master plans, Web Development, Database Programming, Database Management, Data Analysis, and Data Mining.

Senior Planner

Broward County Mass Transit, Pompano Beach, FL

12/97 – 10/02

Supervise and train Service Development staff in the areas of Geographic Information Systems (GIS) and transit databases. Database and System management of existing transit applications, including the GFI farebox, the Automatic Vehicle Location System (AVL), the Bus Stop Inventory, Ridership database, Customer Complaints, and data analysis for most of the agencies' databases. Involved in Intelligent Transportation System (ITS) projects as well as in the Advanced Public Transportation System (APTS). Agency representative for the Broward County APTS Master Plan. Oversee the SmartTrack System (AVL) and prepare documentation for the procurement of new technology Automatic Passenger Counters (APCs), Real-Time Information Systems, and updating the existing AVL System.

Assistant Planner

Broward County Mass Transit, Pompano Beach, FL

3/96 - 12/97

Responsible for creation and maintenance of Transit Databases, in particular the Bus Stop Inventory which includes almost 5,000 bus stops within Broward County. Field inspection of bus stops to ensure proper location and compliance with ADA. Data collection and analysis of Transit Statistics, including the National Transit Database (NTD), which is the basis for the Federal Government's formula for funding to Broward County Mass Transit. Analyze Transit Ridership and forecast the effects of fare and service changes. Review, and provide recommendations on Transportation, Transit, Traffic, and Corridor studies. Agency representative for the Intelligent Transportation System (ITS) project. Research and prepare reports on various issues related to Public Transportation. Represent Mass Transit in public meetings, participate on panels, and attend workshops.

Training Transit Asset Management, STISIM Driving Simulator, Safe Mobility for Life Program: Preparing Our State for the Future. Fundamentals of Bus Collision Investigation, Complying with the FTA's Policy on ITS Architecture Consistency, T-BEST, dBASE Developers' Conference, TransCAD Workshop, FTIS Workshop, ArcGIS 8.2, Oracle Fundamentals, SmartTrack, Hastus, HastInfo, GEO, Trapeze Plan, Windows 2000, Visual dBASE 7 Training, An introduction to Urban Transportation Planning, Supporting Microsoft Windows 95, Using Novel Groupwise, Information Technology Training, Transportation Hazardous Materials, Road Geometric Design, Project Management, Transportation Safety, Working Core Leadership Program, National Transit Database Data Collection.

Computer Skills STISIM, SQL Server, Visual Studio .Net, dBASE, HanDBase, Oracle, Sybase, Microsoft Office, Filezilla, Microsoft Windows 2000/XP/Server/7, Linux, Unix, MS IIS 6, Corel WordPerfect Suite, GroupWise, Internet Explorer, Firefox, Adobe Acrobat, LapLink, PC Anywhere, TransCAD, ArcGIS, ImageMapper, SAS, SPSS, Crystal Reports, Visio, PowerPoint, CORSIM, Macromedia, NetObjects Fusion, HTML, Apache Server, Javascript, OmmniPage, Inno Setup, InstallShield, SmartTrack (AVL), Trapeze, Hastus, HastInfo, GEO.

Books

1. Cevallos, Fabian, "Optimization of Transit Transfer Times: A System -Wide Approach," VDM Verlag Dr. Muller, Germany, 2009.

Refereed Papers

1. Llau A. F., Ahmed N., Khan H., Cevallos F., Pekovic V. (2015). The impact of red light cameras on crashes within Miami-Dade County. *Traffic Injury Prevention*.
2. 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.
3. . Suksawang, N., P. Alluri, A. Gan, K. Meneses, F. Cevallos, K. Haleem, and D. Saha, "Feasibility and Design of Movable Bus Stop Boarding and Alighting Pads," *Proceedings of the 93rd Annual Meeting of the Transportation Research Board*, January 2014.
4. Cevallos, F., J. Skinner, A. Joslin, D. McCarthy, and A. Gan, "Marketing Fixed-Route Transit to Seniors: Challenges and Recommendations," Accepted for Presentation at the 93rd TRB Annual Meeting, January 2014.
5. Suksawang, N., P. Alluri, A. Gan, K. Meneses, F. Cevallos, K. Haleem, D. Saha, "Feasibility and Design of Movable Bus Stop Boarding and Alighting Pads ," Accepted for Presentation at the 93rd TRB Annual Meeting, January 2014.
6. Cevallos F. and X. Wang, and A. Gan, "Using a web-service to monitor transit on-time performance", *Proceedings of the 19th ITS World Congress*, Vienna, Austria, October 22-26, 2012.

7. Hillsman, E., F. Cevallos., and T. Sando, "Carbon Footprints for Public Transportation Agencies in Florida," *Transportation Research Record No. 2287*, Journal of the Transportation Research Board, National Research Council, Washington, D.C., 2012, pp 80-88.
8. Cevallos, F., X. Wang, and A. Gan, "Monitoring Transit On-Time Performance Real Time Using a Web-Service Dataset", Accepted for publication at the *IET Intelligent Transport Systems*, 2011.
9. Cevallos F., X. Wang, Z. Chen, and A. Gan, "Using AVL data for Improving Transit On-Time Performance", Accepted for publication at the *Journal of Public Transportation*, 2011.
10. Wu, W.Y., A. Gan, F. Cevallos, and L. D. Shen, "Selecting Bus Stops for Accessibility Improvements for Riders with Disabilities", *Journal of Public Transportation*, 2011.
11. 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*, November 2010.
12. Cevallos F. and X. Wang, "Monitoring Transit On-Time Performance Real Time Using a Web-Service Dataset", *Proceedings of the 17th ITS World Congress*, Busan, Korea, October 25-29, 2010.
13. Cevallos, F., X. Wang, Z.M. Chen, and A. Gan, "Improving Transit On-Time Performance with AVL Data: A Timetable Approach," Presented at the 89th TRB Annual Meeting, January 2010.
14. Wu, W.Y., A. Gan, F. Cevallos, L.D. Shen, and M. Hadi, "A GIS-Aided Decision-Making Process for Selecting Bus Stops for ADA Improvements," Presented at the 89th TRB Annual Meeting, January 2010.
15. Wu, W.Y., A. Gan, F. Cevallos, and L.D. Shen, "Optimal Selection of Bus Stops for Accessibility and Mobility Improvements for Riders with Disabilities," Presented at the 89th TRB Annual Meeting, January 2010.
16. Stevanovic A., M. Zlatkovic, F. Cevallos, and H. Ryan Johnson, "35M MAX: The First Bus Rapid Transit System in Salt Lake County," *World Review of Intermodal Transportation Research*, Vol. 3, Nos. 1/2, 2010, pp. 103-120.
17. Cevallos F., X. Wang, and A. Gan, "Improving Services for Special Population by using Transit ITS Data", *Proceedings of the 16th ITS World Congress*, Stockholm, Sweden, September 21-25, 2009.
18. Cevallos, F, Q. Yuan, X. Wang, and A. Gan, "Using Personal GPS Devices in Paratransit," *IET Intelligent Transport Systems*, Vol. 3, Issue 3, pp. 282-288, September 2009.
19. Cevallos F. and X. Wang, "ADAMS: A Data Archiving and Mining System for Transit Service Improvements," *Transportation Research Record No. 2063*, Journal of the Transportation Research Board, National Research Council, Washington, D.C., 2008, pp 43-51.
20. Cevallos, F., K. Kirwin, and R. Pearsall, "Using CAD/AVL Data for Performance Management," *Proceedings of the 10th International Conference on Applications of Advanced Technologies in Transportation*, ASCE, Athens, Greece, May 27- 31, 2008.

21. Cevallos, F., Q. Yuan, and X. Wang, "Feasibility Study of Applying Personal GPS Devices in Paratransit," *Proceedings of the 10th International Conference on Applications of Advanced Technologies in Transportation*, ASCE, Athens, Greece, May 27- 31, 2008.
22. Cevallos, F. and X. Wang, "APTS Data Archiving and Mining System (ADAMS)," *Proceedings of the 10th International Conference on Applications of Advanced Technologies in Transportation*, ASCE, Athens, Greece, May 27- 31, 2008.
23. Gan A., H. Wang, K. Liu, F. Cevallos, and I. Ubaka, "An Automated System for Collection and Analysis of Transit Stop Inventories," *Proceedings of the 10th International Conference on Applications of Advanced Technologies in Transportation*, ASCE, Athens, Greece, May 27- 31, 2008.
24. Wu, W.Y., A. Gan, D. Shen, and F. Cevallos, "A GIS-Based Decision Support System for Allocating Bus Stop Facilities for Disabled Riders," *Proceedings of the 10th International Conference on Applications of Advanced Technologies in Transportation*, ASCE, Athens, Greece, May 27- 31, 2008.
25. Cevallos F. and X. Wang, "ADAMS: A Data Archiving and Mining System for Transit Service Improvements," Presented at the 87th Annual Meeting of the Transportation Research Board, Washington D.C., January 15, 2008.
26. Yuan Q., F. Cevallos, X. Wang, and A. Gan, "A Prototype GPS Tracking System for Reducing Missed Customer Pickups for Paratransit," Presented at the 87th Annual Meeting of the Transportation Research Board, Washington D.C., January 15, 2008.
27. Gan, A., F. Cevallos, and I. Ubaka, "Development of a Statewide Transit Stop Inventory Field Collection System and Deployment Guidelines," Presented at the 86th Annual Meeting of the Transportation Research Board, Washington, D.C., January 2007.
28. Cevallos, F. and F. Zhao, "Minimizing Transfer Times in a Public Transit Network with a Genetic Algorithm," *Transportation Research Record 1971*, Journal of the Transportation Research Board, National Research Council, Washington, D.C., pp. 74-79, 2006.
29. Cevallos, F. and F. Zhao, "A Genetic Algorithm for Bus Schedule Synchronization," *Proceedings of the 9th International Conference on Applications of Advanced Technologies in Transportation*, ASCE, Chicago, Illinois, pp. 737-742, August 13-16, 2006.
30. Cevallos, F. and F. Zhao, "Minimizing Transfer Times in a Public Transit Network with a Genetic Algorithm," Presented at the 85th Annual Meeting of the Transportation Research Board, Washington D.C., January 2006.
31. Gan, A., I. Ubaka, and F. Cevallos, "An Automated Bus Stop Data Collection System," *Proceedings of the 2005 Conference on GIS in Transit, National Center for Transit Research (NCTR)*, Tampa, Florida, November 1-3, 2005.
32. Cevallos, F. and A. Willis, "Essential Transit Software Applications," Presented at the 79th Annual Meeting of the Transportation Research Board, Washington, D.C., January 2000.
33. Cevallos, Fabian, "Truck Factor: Basic Freeway Segments," *Transportation Risks and Rewards Compendium of Technical Papers, 46th Annual Meeting, Institute of Transportation Engineers District 6*, Las Vegas, Nevada, July 1993.

Articles

1. Cevallos, F. and A. Gan, "ATSIM: Automated Transit Stop Inventory Model," *Florida Transit Planning Network (FTPN) Newsletter*, p. 4, August 2005.
2. Cevallos F., "RAPTS Data Mining: Site Visit to Tri-Met," *Resource for Advanced Public Transportation Systems (RAPTS) Newsletter*, Volume 1, Issue 1, October 2004.
3. Cevallos, F. and A. Gan, "FDOT Bus Stop Inventory Project," *Florida Transit Planning Network Newsletter*, Volume 2, Issue 1, January 2004.
4. Cevallos, F., "Using dBASE to Collect AVL Data," *The dBase Developer's Bulletin* 16, July, 2002.
5. Cevallos, F., "Customizing One-Click Windows Applications," *The dBase Developer's Bulletin* 13, September 2001.

Reports

1. Cevallos, F., T. Pickering, K. Shams, M. Rezaei, and P. Mankotia, "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), March 2016.
2. Cevallos, F., T. Pickering, S. Noei, Y. Amirpour, and J. Aldajuste, "Training Manual for Transit Service Planning and Scheduling", National Center for Transit Research, University Transportation Centers (UTC Consortium), December 2015.
3. Cevallos, F., M. Parlade, T. Pickering, K. Meneses, and J. Aldajuste, "Guidelines for Bus Transit Stops in Highway Construction Work Zones", Prepared for the Florida DOT, Public Transit Office, December 2014.
4. Hadi, M. and F. Cevallos, "Work Plan Development for Phase I of the Informed Traveler Program & Applications (ITPA)", Prepared for the Miami-Dade Expressway Authority, September 2014.
5. Cevallos F., H. Wang, A. Gan, and T. Pickering, "ATSIM 4.0 User's Guide," Prepared for the Florida DOT, Public Transit Office, May 2013.
6. Suksawang, N., A. Gan, P. Alluri, K. Haleem, K. Meneses, F. Cevallos, and D. Saha, "Analysis of Movable Bus Stop Boarding and Alighting Areas," Prepared for the Florida DOT, Research Center, May 2013.
7. Cevallos, F., Z. Chen, and H. Deng, "Validation Test for Using Radio-Frequency Identification (RFID) Technology in Special Transportation Service (STS)," Prepared for Miami-Dade Transit, July 2011.
8. Hillsman, E., F. Cevallos., and T. Sando, "Conserve by Transit II: Carbon Footprints of Florida's Public Transportation Agencies," Prepared for the Florida DOT, Public Transit Office, June 2011.
9. Cevallos F. and M. Catala, "Needs Assessment for Transit and GIS Data Clearinghouse", Prepared for the Florida DOT, Public Transit Office, April 2011.

10. Cevallos F., D. McCarthy, S. Chinta, and A. Katragadda, "Traffic Safety Plan For Elderly Pedestrians," Prepared for Miami-Dade County Public Works Department, March 2011.
11. Hadi, M. and F. Cevallos, "SR-836 Express Bus Service Study," Miami-Dade Expressway Authority, December 2010.
12. Cevallos, F., J. Skinner, A. Joslin, and T. Ivy, "Attracting Senior Drivers to Public Transportation: Issues and Concerns," Prepared for the Federal Transit Administration, January 2010.
13. Wu, W. Y., Gan, A., F. Cevallos, and L. D. Shen, "Optimization Models for Prioritizing Bus Stop Facility Investments for Riders with Disabilities," Final Report, Prepared for Federal Transit Administration, U.S. DOT, March 2010.
14. Cevallos, F., Q. Yuan, X. Wang, J. Skinner, and A. Gan, "Feasibility Study on the Use of Personal GPS Devices in Paratransit", Prepared for the Federal Transit Administration, May 2009.
15. Cevallos, F., "Florida Advanced Public Transit Systems Program," Final Report, Prepared for the Florida DOT, Public Transit Office, April 2009.
16. Cevallos, F., "Using Technology to Improve Service Planning," Prepared for Miami-Dade Transit, February 2008.
17. Cevallos, F., "Advanced Public Transportation Systems (APTS) Technical Assistance for VOTRAN," Prepared for the Center for Urban Transportation Research, January 2008.
18. Cevallos, F., "APTS Data Archiving and Mining System (ADAMS)," Final Report, Prepared for the Florida DOT, Public Transit Office, September 2007.
19. Cevallos, F., "MDT Technical Memo: Using CAD/AVL Schedule Adherence Data," Prepared for Miami-Dade Transit, April 2007.
20. Cevallos, F., "Automatic Passenger Counters Technical Memorandum," Prepared for Palm Tran, 2007.
21. Cevallos, F., "Expansion and Automation of the Existing Bus Line Performance System (LPS)," Development of TRIPS Software for the Jacksonville Transportation Authority (JTA), 2006.
22. Gregg, R., and F. Cevallos, "HARTline Intelligent Transportation Systems (ITS) Master Management Program," Final Report, Prepared for HART, December 2005.
23. Cevallos F., "MDT Technical Memorandum: APTS Data," Prepared for Miami-Dade Transit, October 2005.
24. Cevallos F., "Transit Stop/Station Inventory Automation Recommendations," Prepared for the Jacksonville Transportation Authority, 2005.
25. Cevallos, F., "Community Bus Stop Inventory Manual," Prepared for the Service Development Section of Broward County Transit, April 2005.

26. Cevallos F., "APTS Data Mining and Analysis," Final Report, Prepared for the Florida DOT, Public Transit Office, April 2005.
27. Cevallos F., "Automated Passenger Counters (APCs) Technical Specifications," Prepared for Miami-Dade Transit, March 2005.
28. Gan, A. and F. Cevallos, "Development of an Automated Bus Stop Data Collection and Analysis System," Final Report, Prepared for Florida DOT, February 2005.
29. Cevallos F., "APTS Technology: Automatic Vehicle Location (AVL). The Broward Experience," Resource for Advanced Public Transportation Systems (RAPTS), 2003.
30. Gregg, R., F. Cevallos, M. Mistretta, and J. Goodwill, "Overview of the RAPTS Case Studies: Data Development and Integration Perspective," Resource for Advanced Public Transportation Systems (RAPTS), 2003.
31. Cevallos F., and R. Gregg, "The Broward Real-Time Demonstration Project: Evaluation and Recommendations," Final Report, Prepared for Florida DOT, 2003.

Honors and Awards

- Who is Who in America, 2011.
- Graduate Faculty with Dissertation Advisory Status, Florida International University, 2010.
- Who is Who in American Colleges and Universities, 2008.
- Sigma Xi, the Scientific Research Society, 2006.
- Delta Epsilon Iota, Academic Honor Society, 2005.
- Student Paper Award, "Truck Factor: Basic Freeway Segments", ITE District 6, Las Vegas, 1993.
- Dean's List, San Jose State University, 1992.
- Chi Epsilon, National Civil Engineering Honor Society, 1992.

Professional Service and Membership

- Panel Member of TCRP on Synthesis Study SA-39: Managing Extreme Weather at Bus Stops.
- Panel Member of TCRP on Synthesis Study SG-13: Successful Practices for Utility Coordination in Transit.
- Panel Member of TCRP Synthesis Topic SG-12: Optimizing Bus Warranty.
- Member of Steering Committee for the Miami-Dade MPO Bicycle and Pedestrian Safety Plan.
- Panel Member of TCRP Synthesis Topic SA-28: Use of Electronic Passenger Information Signage in Transit.
- Paper Reviewer for Transportation Research Part C.
- Paper Reviewer for the Journal of Urban Planning and Development.

- Paper Reviewer for the Transportation Research Board, National Academy of Sciences.
- Paper Reviewer for the Journal of the Public Transportation, National Center for Transit Research.
- Proposal Reviewer for the University of California Transportation Center (UCTC).
- Member of TRB Committee AP075, Light Rail Transit, Transportation Research Board (TRB), National Academies of Science.
- Sigma Xi Membership Nomination Review.
- Online Judge, Spirit of Innovation Awards, Conrad Foundation.
- Manuscript Reviewer for State and Local Government Review.
- Panel Member of TCRP Synthesis Topic SA-26: Implementation and Outcomes of Fare Free Systems.
- Panel Member of TCRP Synthesis Topic SA-25: Use of Mobile Device Technology for Real-Time Transit Information.
- Panel Member of TCRP Synthesis Topic SA-18: Passenger Counting Systems.
- Panel Member of TCRP Project A-29, Controlling System Costs: Basic and Advanced Scheduling Manuals and Contemporary Issues in Transit Scheduling.
- Panel Member of TCRP Synthesis Topic SH-03: Applications of Geographic Information Systems (GIS) in Transit Planning and Operations.
- Panel Member of TCRP Project H-28 (Uses of Archived AVL/APC Data to Improve Transit Performance and Management).
- Technology/Planning Tools Committee Coordinator. Florida Transit Planning Network (FTPN).
- Report Reviewer, Best Practices for Using Geographic Data in Transit: A Location Referencing Guidebook.
- Author and Article Reviewer, dBASE Developers Bulletin.
- Member, Bus Stop Inventory National Task Force.
- Judge, Florida State Science and Engineering Fair.

Software Systems

- Automated Transit Stop Inventory Model (ATSIM) Version 4: <http://ftis.org/atsim.html>
- APTS Data Archiving and Mining System (ADAMS), Resource for Advanced Public Transportation Systems: <http://technology.lctr.org/Mining/Predict.aspx>.
- Passenger Ridership Data Collection System - TranStats, Developed for Broward County Transit.
- Field Surveyor Assignments Developed for Broward County Transit.
- Transit Complaint System, Developed for Broward County Transit.

- Bus Stop Inventory, Developed for Broward County Transit.

Web Sites

- Automated Stop Inventory System Model (ATSIM): <http://ATSIM.net>
- Light Rail Transit TRB Committee: <http://research.lctr.org/TRBLRT/>
- Florida Advanced Public Transportation Systems (APTS) Program: <http://floridaapts.lctr.org>
- TRANSPO Transit ITS Based Reporting System: <http://research.lctr.org/transitits/>

Expert Reviewer

1. Reviewer of the Google Transit Data Tool for Small Transit Agencies. TRB Transit IDEA program.
2. Improving Reliability in the Montreal Transit System. Natural Sciences and Engineering Research Council of Canada, September 2008.
3. Evaluation of LRT and BRT Impact on Traffic Operations in Salt Lake City Metropolitan Region. Mountain-Plains Consortium (MPC), July 2008.

Proposal Reviewer

1. TransNow - University Transportation Center for Federal Region X at the University of Washington
2. UTRC II - Region 2 University Transportation Research Center

Workshops and Presentations

1. Moderator, *ADA Transition Planning and Emerging Issues*, Southern Transportation Civil Rights Training Symposium, Fort Lauderdale, Florida, August 3-5, 2015.
2. Presenter, *Automated Transit Stop Inventory Model (ATSIM)*, at Palm Tran, Palm Beach, September 27, 2013.
3. Presenter, *Automated Transit Stop Inventory Model (ATSIM)*, at District 2 Florida Department of Transportation, Jacksonville, October 9, 2013.
4. Presenter, *Automated Transit Stop Inventory Model (ATSIM)*, at Lynx, Orlando, October 23, 2013.
5. Presenter, *Automated Stop Inventory System Model (ATSIM)*, Florida Public Transportation Association (FPTA), FPTA Annual Conference, Daytona Beach, Florida, October 29, 2012.
6. Presenter, *Using a web-service to monitor transit on-time performance*, 19th ITS World Congress, Vienna, Austria, October 24, 2012.

7. Presenter, *Florida Transit Information System 2010 Workshop*, Florida Department of Transportation District 2, Jacksonville, Florida, Florida, June 2010.
8. Presenter, *Florida Transit Information System 2010 Workshop*, Florida Department of Transportation District 7, Tampa, Florida, Florida, January 2010.
9. Presenter, *Using transit ITS to help improve transit efficiencies*. Meet the FIU Researchers from the Lehman Center for Transportation Research, Florida International University, April 20, 2010.
10. Presenter, *Use of Personal Global Positioning System (GPS) Devices in Paratransit*, National Transit Institute (NTI) Webinar, February 18, 2010.
11. Presenter, *Transit ITS: Using AVL Data to Monitor On-Time Performance Real Time*, ITS America, Washington, D.C., January 10, 2010.
12. Presenter, "Use of Personal GPS Devices in Paratransit," *Special Interest Session: ITS to Enable Healthy Ageing*, 16th ITS World Congress, Stockholm, Sweden, September 24, 2009.
13. Presenter, *Improving Services for Special Population by Using Transit ITS Data*, 16th ITS World Congress, Stockholm, Sweden, September 25, 2009.
14. Presenter, *Feasibility Study on the Use of Personal GPS Devices in Paratransit*, ITS Regional Conference call, Washington, D.C., June 9, 2009.
15. Presenter, *Florida APTS Program*, 2009 FDOT/FPTA/CUTR Professional Development Workshop, Tampa, Florida, May 20, 2009.
16. Presenter, *Use of Transit ITS Data to Help Improve Services for Special Populations*, 15th World Congress on ITS, New York City, New York, November 19, 2008.
17. Presenter *Automated Transit Stop Inventory Model (ATSIM)*, 2007 CFGIS Workshop, Transportation Session, Orlando, Florida, September 18, 2007.
18. Presenter, *APTS Data Archiving and Mining System (ADAMS)*, Professional Development Workshop, Transit Technology/RAPTS Session, Tampa, Florida, 2007.
19. Moderator, "Bus Stop Inventories," *Florida Transit Planning Network (FTPN)*, 5th Annual Professional Development Workshop, Planning Technical Session #5, Tampa, Florida, 2006.
20. Presenter, *Automated Transit Stop Inventory Model (ATSIM)*, Jacksonville Transportation Authority (JTA), Jacksonville, Florida, March 23, 2006.
21. Presenter, *Automated Transit Stop Inventory Model (ATSIM)*, at District 3 Florida Department of Transportation, Chipley, Florida, March 22, 2006.
22. Presenter, *Automated Transit Stop Inventory Model (ATSIM)*, at District 7 Florida Department of Transportation, Tampa, Florida, March 15, 2006.
23. Presenter, *Automated Transit Stop Inventory Model (ATSIM)*, at District 5 Florida Department of Transportation, Orlando, Florida, March 14, 2006.

24. Presenter, *Automated Transit Stop Inventory Model (ATSIM)*, at District 1 Florida Department of Transportation, Bartow, February 24, 2006.
25. Presenter, *Automated Transit Stop Inventory Model (ATSIM)*, at District 4 Florida Department of Transportation, Fort Lauderdale, February 17, 2006.
26. Presenter, *Minimizing Transfer Times in a Public Transit Network with a Genetic Algorithm*. Transportation Research Board, 85th Annual Meeting. 2006.
27. Presenter, *The Broward Real-Time Demonstration Project*, Florida Public Transportation Association (FPTA), FPTA Annual Conference, Tampa, Florida, 2002.
28. Presenter, *The Broward Automatic Vehicle Location System: Lessons Learned*, Florida Public Transportation Association (FPTA), FPTA Annual Conference, Tampa, Florida, 2001.
29. Presenter, *Essential Transit Software Applications*, FIU ITE Student Chapter, 2000.
30. Presenter, *Broward County Minibus Demonstration Project, Proceedings of Symposium IV on African-American Mobility Issues*, Tampa, Florida, 1997.

Sponsored Research Projects

1. PI: *Transit Stop Inventory Model (ATSIM) Enhancements*, Public Transit Office, Florida Department of Transportation, \$23,934, 2015-2016 (Co-PI: Albert Gan).
2. Co-PI: *Development of 2015 Florida Transit Information System (FTIS)*, Public Transit Office, Florida Department of Transportation, \$53,635, 2014-2015 (PI: Albert Gan).
3. Co-PI: *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 (PI: Albert Gan, Co-PIs: Mohammed Hadi, Priyanka Alluri, Berrin Tansel, Xia Jin, Kirolos Haleem, and Yan Xiao).
4. PI: *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 (Co-PI: Albert Gan).
5. PI: *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 (Co-PI: Albert Gan).
6. PI: *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 (Co-PI: Albert Gan).
7. PI: *Administration of UTC Grant*, National Center for Transit Research, University Transportation Centers (UTC Consortium), \$35,000, 2013-2014 (Co-PI: Albert Gan).

8. PI: *Transit Stop Inventory Model (ATSIM) Training and Technical Support*, Public Transit Office, Florida Department of Transportation, \$34,800, 2012-2013 (Co-PI: Albert Gan).
9. PI: *Web Tool for Managing Human Services Transportation in the Town of Brookhaven*, Town of Brookhaven, New York, \$75,000, 2013 (Co-PI: Albert Gan).
10. PI: *Guidelines for Bus Transit Stops in Highway Construction Work Zones*, Research Center, Florida Department of Transportation, \$122,600, 2013-2014 (Co-PI: Albert Gan).
11. PI: *Automated Transit Stop Inventory Model (ATSIM) Development and Technical Support*, Public Transit Office, Florida Department of Transportation, \$135,000, 2012-2013 (Co-PI: Albert Gan).
12. Co-PI: *Analysis of Movable Bus Stop Boarding and Alighting Areas*, Research Center, Florida Department of Transportation, \$110,677, 2012-2013 (PI: Albert Gan).
13. *Best Practices in the Use of Hybrid Static-Dynamic Signs*, Florida Department of Transportation, \$150,000, 2011-2012 (PI: Albert Gan Co-PI: Kirolos Haleem).
14. PI: *Validation Test for Using Radio-Frequency Identification (RFID) Technology in Special Transportation Service (STS)*, Miami-Dade Transit (MDT), \$48,250, 2011 (Co-PIs: Hai Deng and Zhenmin Chen).
15. PI: *Florida Advanced Public Transportation Systems Program*, Public Transit Office, Florida Department of Transportation, \$135,000, 2010-2011 (Co-PIs: Albert Gan and Mohammed Hadi).
16. PI: *Needs Assessment for Transit and GIS Data Clearinghouse*, Public Transit Office, Florida Department of Transportation, \$73,850, 2010-2011 (Co-PI: Albert Gan).
17. PI: *Conserve by Transit, Florida Department of Transportation*, Public Transit Office, Florida Department of Transportation, \$49,322, 2010-2011 (Co-PI: Albert Gan).
18. Co-PI: *Miami- Elderly Affordable Housing Facility Traffic Impact Study*, Miami-Dade County Public Works Department (PWD), \$12,103, 2011 (PI: Mohammed Hadi).
19. Co-PI: *Animal Shelter Facility Traffic Impact Study*, Miami-Dade County Public Works Department (PWD), \$23,502, 2011 (PI: Mohammed Hadi).
20. 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 (PI: Albert Gan Co-PI: Feng Gui).
21. PI: *Miami-Dade Most Dangerous Locations for Elderly Pedestrians*, Miami-Dade County Public Works Department (PWD), \$50,000, 2008-2009 (Co-PIs: Albert Gan, Dennis McCarthy).
22. PI: *NW 67 Avenue Traffic Study*, Miami-Dade County Public Works Department (PWD), \$29,078, 2008-2009 (Co-PI: Mohammed Hadi).

23. PI: *Technical Assistance for Miami-Dade Transit Service Planning Section*, Miami-Dade Transit (MDT), \$50,000, 2008-2009 (Co-PI: Albert Gan).
24. PI: *Technical Assistance for Miami-Dade Transit Service Planning Section*, Miami-Dade Transit (MDT), \$45,000, 2008-2009 (Co-PI: Albert Gan).
25. PI: *Florida APTS Program*, Public Transit Office, Florida Department of Transportation, \$150,000, 2007-2008 (Co-PI: Albert Gan).
26. Co-PI: *A Methodology for Performance Measurement and Peer Comparison in the Public Transportation Industry*, Transit Cooperative Research Program, \$26,604, 2007-2009 (PI: Albert Gan).
27. PI: *Development of a Web-Based Reporting System to Use Transit ITS Data to Help Improve Services for Special Populations*, Federal Transit Administration, \$140,000, 2006-2008.
28. PI: *Using Data from an Electronic Fare Collection System to Identify the Travel Behavior of Seniors and the Disabled Community*, Federal Transit Administration, \$80,000, 2006-2008.
29. PI: *APTS Technical Assistance to Miami-Dade Transit*, Miami-Dade Transit (MDT), \$105,000, 2006-2007 (Co-PI: Albert Gan).
30. PI: *Attracting Elderly Drivers to Public transportation: Issues and Concerns*, Federal Transit Administration, \$120,000, 2006-2007.
31. PI: *Feasibility Study on the Use of Personal GPS Devices in Paratransit*, Federal Transit Administration, \$80,000, 2006-2007.
32. PI: *South Dade Busway Feeder Study*, Miami-Dade Transit, \$92,000, 2007 (Co-PI: Fang Zhao).
33. PI: *Technical Support to USF/CUTR for VOTRAN Project*, \$7,500, 2006-2007.
34. PI: *Technical Support to USF/CUTR for Palm Tran Project*, \$25,000, 2006-2007.
35. PI: *Technical Support to USF/CUTR for MDT Project*, \$30,000, 2006.
36. PI: *Data Mining Software Development for RAPTS Program*, Public Transit Office, Florida Department of Transportation, \$42,000, 2006-2007 (Co-PI: Albert Gan).
37. PI: *Resource for Advanced Public Transportation Systems (RAPTS) Program*, Center for Urban Transportation Research/University of South Florida, \$200,000, 2006.
38. Co-PI: *Development of Automated Transit Stop Inventory Model*, Public Transit Office, Florida Department of Transportation, \$150,000, 2006-2007 (PI: Albert Gan).
39. Co-PI: *Technical Support for RAPTS Program*, University of South Florida, \$10,000, 2006 (PI: Albert Gan).

Technical Assistance

- Miami-Dade Transit (MDT)
- Broward County Transit (BCT)
- Pam Beach County Transit (Palm Tran)
- Jacksonville Transportation Authority (JTA)
- Hillsborough Area Regional Transit (HART)
- Manatee County Area Transit (MCAT)
- Volusia County's Public Transit System (VOTRAN)

Courses Taught

- Spring 2013 CGN 6905 Independent Study
- Fall 2012 TTE 6506 Mass Transit Planning
- Fall 2011 TTE 6506 Mass Transit Planning
- Summer 2010 CGN 6916 Engineering Project
- Spring 2010 CGN 6916 Engineering Project
- Fall 2009 CGN 6916 Engineering Project
- Spring 2009 CGN 6905 Independent Study: Transit Safety and Security
- Fall 2008 CGN 5930 Transit Planning and Operations

Graduate Students

As Major Professor

- Kollol Shams, Ph.D.
- Vamshi Chaitanya, M.S.
- Sudheer Chinta, M.S.
- Aditya Katragadda, M.E.U.S.
- Abraham Jivanjee, M.E.U.S.

- Xiaobo Wang, M.S.
- Quan Yuan, M.S.

As Committee Member

- Alexandra Lopez, M.S.
- Milos Majstorovic, M.S.
- Elizabeth Muir, M.S.
- Khalilah Ffrench, M.S.
- Alexandra Lopez, M.S.
- Ho Pun Ng, M.S.
- Raghavendra Khadakbhavi, M.S.
- Alejandro Ortega, M.S.
- Miguel Olivares, M.S.
- Marcenel Joseph, M.S.
- Marco Lux, M.S.
- Gaby Espiridon, M.S.
- Meng Ma. M.S.
- Claudia Diaz, M.S.
- Jeffrey Gropper, M.S.
- Anthoni Llau, Ph.D.
- Bernardo Bieler, M.S.
- Sampson Asare, M.S.
- Jankristof Devastey, M.S.
- Praneeth Sagar Rachakonda, M.S.
- Emilio Corrales, M.S.

- Boyuan Guan, M.S.
- Fang Liao, M.S.
- Christine Bettin, M.E.U.S.
- Dylan Lloyd, M.E.U.S.
- Wanyang Wu, Ph.D.
- Emilio Corrales, M.S.
- Martha Garcia, M.E.U.S.
- Tekisha Ivy, M.E.U.S.

Supervised Personnel

- Pankaj Mankotia, B.S., Research Assistant, September 2014-Present.
- Yasamin Amirpour, M.S., Research Assistant, August 2014-Present.
- Junias Aldajuste, M.S., Research Assistant, September 2013-2014.
- Katrina Meneses, B.S., Research Assistant, May 2013-August 2013.
- Kollool Shams, Ph.D., Research Assistant, August 2012-2014.
- Thalia Pickering, B.S., LCTR Coordinator and Web Designer, August 2012-Present.
- Mr., Xiaobo Wang, M.S. Computer Science, Software Engineer, September 2006-July 2012.
- Mr. Sudheer Chinta, M.S., Research Assistant, August 2010-December 2011.
- Ms. Arlene Willis, M.S., Research Assistant, April 2011-December 2012.
- Mr. Aditya Katragadda, M.S.E.U.S, Research Assistant, August 2009-August 2010.
- Ms. Simeng Chen, B.A., Web Designer, January 2010-June 2010.
- Mr. Osmel Matos, A.S., A.A., Web Designer, February 2008-February 2009.
- Jon Skinner, M.S. in Urban and Regional Planning, Research Associate, June 2007-November 2008.

Graduate Research Assistants Supported

- Yasamin Amirpour, M.S., 2014-1015

- Junias Aldajuste, M.S., Sep 2013-2014
- Katrina Meneses, May 2013-Aug. 2013
- Kollol Shams, Aug. 2012-Present
- Sudheer Chinta, Dec. 2008-2011
- Mr. Quan Yuan, Sep. 2006-Dec. 2007
- Long Wang, Aug. 2012-2013
- Ms. Vandana Singh Mar. 2011-Jun. 2011
- Mr. Aditya Katragadda Aug 07-Aug 10
- Ms. Tekisha Ivy, Jan. 2007-Dec. 2007
- Mr. Rossi Gaudio, Jan. 2007-Dec. 2007

Additional Graduate Research Assistants (Volunteers/Mentees)

- Praveen Kumar Varala, Nov-Dec 2008.
- Vamshi Chaitanya, M.S., Apr 08-Aug2010.
- Harish Sarikonda, Feb. 2009-Dec. 2010.
- Uma Tippani, Aug. 2011-Present

Internships

- Supervised 9 Engineering Students from India, June, 2013.