

## VIRGINIA P. SISIPIKU, Ph.D.

Last Update: September, 2017



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Associate Professor of Transportation Engineering  
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### PROFILE

Dr. Virginia Sisiopiku is an Associate Professor in Civil, Construction, and Environmental Engineering at University of Alabama at Birmingham (UAB) and the UAB Transportation Program Director. She has 25 years of professional experience in intelligent transportation systems and traffic operations, transportation safety, simulation and modeling, and sustainable transportation.

Since joining UAB in 2002, she undertook various research, scholarship, and service initiatives that contributed to the success of the University Transportation Center for Alabama (UTCA), the Great Urban Serving Universities Program, the UAB University Transportation Center (UAB UTC), and the National Center for Transportation Systems Productivity and Management (NCTSPM). She now leads the collaboration between UAB and the Southeastern Transportation Research, Innovation, Development and Education Center (STRIDE), a Regional University Transportation Center (UTC) funded through US DOT/RITA in 2012 and directed by the University of Florida. She also actively supports the UAB Sustainable Smart Cities Research Center (SSC) through research and outreach activities. To date, her research work produced a total of 190 refereed books, chapters, journal articles, and peer reviewed conference papers and has been recognized by many professional organizations including the *Institute of Transportation Engineers*, *Federal Highway Administration*, *Illinois Association of Highway Engineers*, *IEEE*, and the *Women's Transportation Seminar*.

Dr. Sisiopiku also contributes greatly to the academic mission as an educator and a mentor. She developed and delivered undergraduate and graduate courses ranging from traditional offerings such as Transportation Engineering to specialized courses on Intelligent Transportation Systems, Non-motorized Transportation Planning and Design, and Sustainability Design and Rating Systems. To date, she served as faculty adviser of 59 Master's and Doctoral students in Transportation and mentored junior faculty members and post-doctoral fellows. She is the founder of the UAB Institute of Transportation Engineers (ITE) Student Chapter and serves as the chapter's faculty advisor since 2002. She is the recipient of the *2010 Dean's Award for Excellence in Mentorship*, and the *2007 Presidential Award for Excellence in Teaching*.

Dr. Sisiopiku maintains also an active professional, institutional, and public service record. She is an elected *Director of Research and Education* for the American Road & Transportation Builders Association (ARTBA) and provides service to the Institute of Transportation Engineers (ITE) and the Transportation Research Board (TRB) in various capacities. Dr. Sisiopiku served as Editor of the *International Journal of Engineering and Industries* and Associate Editor of the *Journal of Transportation of the ITE*. At UAB, she chaired the School of Engineering Academic Affairs Committee, the Equity and Diversity Committee, and the Dupuis Executive Committee and serves on the Faculty Executive Committee. She chaired the Parental Leave Subcommittee of the UAB Commission on the Status of Women and served on the UAB ADVANCE and UAB UTC Advisory Boards. She was Affirmative Action Officer for eight years and served on the Grievance and Termination Hearing Panel. She now serves on the UAB Sustainability Committee, chairs the UAB AAUW Relations Committee, and is the Vice Chair of the UAB Commission on the Status of Women.

In 2014 she was inducted as *Fellow of ITE*, the first woman transportation engineer in the State of Alabama to receive this prestigious distinction.

## EDUCATION

1994	University of Illinois at Chicago	Chicago, IL	Post Doc., Electrical Engineering
1991-1994	University of Illinois at Chicago	Chicago, IL	Ph.D., Civil Engineering
1989-1991	University of Illinois at Chicago	Chicago, IL	M.S., Civil Engineering
1983-1988	Aristotle University of Thessaloniki	Thessaloniki, Greece	B.S., <i>cum laude</i> , Civil Engineering

## PROFESSIONAL INTERESTS

Traffic Operations, Intelligent Transportation Systems, Traffic Safety, Congestion Management, Non-motorized Transportation, Sustainable Transportation.

## POSITIONS HELD

2011 (January to July)	Visiting Professor, University of California Berkeley, Civil and Environmental Engineering; Institute of Transportation Studies and PATH-CCIT (California Partners for Advanced Transit and Highways and California Center for Innovative Transportation), Berkeley, CA
2007-2016	President and CEO, Transportation Research Innovations and Applications (TRIA Inc.), Hoover, AL
2002-present	Associate Professor, Transportation Program Director. The University of Alabama at Birmingham, Department of Civil, Construction, and Environmental Engineering (CCEE), Birmingham, AL
2002-2003	Adjunct Associate Professor, Michigan State University, Department of Civil and Environmental Engineering, E. Lansing, MI
1995-2002	Assistant Professor, Michigan State University, Department of Civil and Environmental Engineering, E. Lansing, MI
1994-1995	Adjunct Assistant Professor, Illinois Institute of Technology, Department of Civil Engineering, Chicago, IL
1994-1995	Associate Research Scientist, University of Illinois at Chicago, Department of Electrical Engineering and Computer Science, Chicago, IL
1994-1995	Transportation Specialist, P/R Michaels Associates, LTD. Chicago, IL
1992-1993	Research Fellow, Federal Highway Administration, McLean, VA
1991-1992	Teaching Assistant, University of Illinois at Chicago, Chicago, IL
1989-1994	Research Assistant, University of Illinois at Chicago and Illinois Department of Transportation, Chicago, IL

## OTHER APPOINTMENTS HELD

2015-present	School of Public Health, Center for Study of Community Health
2012-present	University of Alabama at Birmingham Representative to the Southern Transportation Research, Innovation, Development, and Education (STRIDE) University Transportation Consortium, Gainesville, FL

- 2006-present Senior Scientist, Faculty Appointment at the UAB Injury Control Research Center, Birmingham, AL
- 2003-present Member of the UAB Center for Emerging Infections and Emergency Preparedness (CEIEP), Birmingham, AL
- 2002-present Adjunct Associate Professor, Full Member of Graduate Faculty, University of Alabama in Huntsville, Department of Civil and Environmental Engineering, Huntsville, AL

## FUNDED GRANTS<sup>1</sup>

### PI/CO-PI Responsibilities

#### At UAB

##### Research Grants

1. Technology Influence on Travel Demand and Behaviors, **Sisiopiku V.P.** (PI), Ramadan O., Hadi M., McDonald N. and Steiner R. (co-PIs), USDOT-STRIDE, 03/20/17-03/20/18. Total: \$391,300.
2. Performance Measurement and Management Using Connected and Automated Vehicle Data, Hadi M. (PI), **Sisiopiku V.P.**, Srinivasan S., and Ranka S. (Co-PIs), USDOT-STRIDE, 05/01/17-05/01/18. Total: \$421,774 (UAB subcontract: \$113,250).
3. Work Zone Mobility through Planning, Design, and Operations, Turochy R. (PI), **Sisiopiku V.P.**, Williams B., and Tsai J. (co-PIs), USDOT-STRIDE, 01/01/17-01/01/18. Total: \$431,713 (UAB subcontract: \$118,564).
4. Evaluation of Traffic Control Options in Work Zones, **Sisiopiku V.P.** (PI), and Ramadan O. (co-PI), USDOT-STRIDE, 02/15/16-04/17/17. Total: \$155,876.
5. UAB Commuter Survey, **Sisiopiku V.P.** (PI), Regional Planning Commission of Greater Birmingham, 07/16/15-05/31/16. Total: \$20,278.
6. Birmingham Regional Sustainability Initiatives, Sullivan A. (PI), and **Sisiopiku V.P.** (Co-PI), Regional Planning Commission of Greater Birmingham, 02/01/15-09/30/17. Total: \$225,683.
7. Investigating the Effect of Drivers' Body Motion on Traffic Safety, Barmpoutis A. (PI), **Sisiopiku V.P.**, and Kondyli A. (co-PIs), USDOT-STRIDE, 09/01/13-08/31/17. Total: \$265,944 (UAB subcontract: \$63,386).
8. Teaching Schoolchildren Pedestrian Safety: A Pragmatic Trial Using Virtual Reality, Schwebel D. (PI), **Sisiopiku V.P.**, and Rodriguez D. (co-PIs), USDOT-STRIDE, 09/01/13-08/31/17. Total: \$300,000
9. Empirically-Based Performance Assessment and Simulation of Pedestrian Behavior at Un-signalized Crossings, Schroeder B. (PI), Elefteriadou L., and **Sisiopiku V.P.** (co-PIs), USDOT-STRIDE, 07/1/12-08/31/15. Total: \$636,650 (UAB subcontract: \$160,032).
10. Digital Advertising Billboards and Driver Distraction, **Sisiopiku V.P.** (PI), Gan A., Stavrinou D., and Sullivan A. (co-PIs), USDOT-National Center for Transportation System Productivity and Management, 06/15/12-02/28/16. Total: \$250,000.

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<sup>1</sup> Amounts listed refer to total project funds and may include match.

11. Optimizing EMS through the Use of Intelligent Transportation Systems Technologies, A. Sullivan (PI), Sisiopiku V.P., Hadi M., Griffin R. (co-PIs), USDOT-National Center for Transportation System Productivity and Management, 06/01/12-02/28/16. Total: \$240,000.
12. Regional Data Clearinghouse Activities-Transportation Data Center, Phase II, Sullivan A. (PI), **Sisiopiku V.P.** (Co-PI), Regional Planning Commission of Greater Birmingham, 03/28/12-9/31/14. Total \$303,823.
13. Impact of Transit Integration in a Complete Streets Context, **Sisiopiku V.P.** (PI), University Transportation Center for Alabama, 1/15/11-2/15/12. Total: \$70,298.
14. Assessment of Pedestrian Activity and Behavior: University Blvd and 14<sup>th</sup> St S., **Sisiopiku V.P.** (PI), University of Alabama at Birmingham, 4/9/10-11/30/10. Total: \$6,631.
15. Creating a Regional Transportation Center for Alabama, Sullivan A. (PI), **Sisiopiku V.P.** (Co-PI), Regional Planning Commission of Greater Birmingham, 1/16/10-9/30/11. Total \$91,882.
16. Ride Safe-Reducing Motorcycle Traffic Accidents and Resulting Injuries by Examining How Information on Safety and Health is shared in an Online Motorcycle Community, Cotten S. (PI), **Sisiopiku V.P.** and Hale T. (Co-PIs), UAB Center for the Study of Community Health, 11/1/09-5/31/12. Total \$30,000.
17. Regional Data Clearinghouse Activities, Sullivan A. (PI), **Sisiopiku V.P.** (Co-PI), Regional Planning Commission of Greater Birmingham, 5/29/09-1/15/10. Total \$108,118.
18. Measuring Non-Recurrent Congestion in Alabama Cities, Sullivan A. (PI), **Sisiopiku V.P.** and Sikder S. (co-PI), University Transportation Center for Alabama, 1/15/09-8/31/10. Total: \$86,720.
19. The UAB Hydrogen Fuel Cell Bus— A Transit Initiative, F. Fouad (PI), Sullivan A., **Sisiopiku V.P.**, Goldman J., and Peters R.W. (co-PIs), Federal Transit Administration (FTA), U.S. Department of Transportation, 9/1/08 – 08/31/11. Total: \$1,650,000.
20. Development of a Dynamic Traffic Assignment and Simulation Model for Incident and Emergency Management Applications in the Birmingham Region, **Sisiopiku V.P.** (PI) and Sullivan A., Fouad F.H., Hitchcock W., Mouskos K., Barrett C., Vick T., Keskin B.B., Melouk S.H., Ziliaskopoulos A., and Turner D. (Co-PIs), the UAB University Transportation Center, 9/1/08-8/31/11. Total: \$440,083.
21. Implementing Active Traffic Management Strategies in the U.S., Sullivan A. (PI) and **Sisiopiku V.P.** (co-PI), University Transportation Center for Alabama, 1/1/08-5/31/09. Total: \$72,444.
22. Transit Modeling and Mitigating Traffic Congestion, Melouk S. (PI), Keskin B., Componation P., Harris G., Farrington P., Anderson M., and **Sisiopiku V.P.** (Co-PIs), University Transportation Center for Alabama, 1/1/08-5/31/09. Total: \$159,965.
23. Study of the Impacts from One- to Two-way Street Conversion, **Sisiopiku V.P.** (PI), National Science Foundation (NSF), UAB ADVANCE Scholars Program, 6/4/07-6/30/08. Total: \$30,000.
24. Bridge Weigh-in-Motion (B-WIM) System Testing and Evaluation, Hitchcock W. (PI), Uddin N., **Sisiopiku V.P.**, Kirby J., Abu-Amra T., Richardson J., and Toutanji, H.A. (co-PIs), University Transportation Center for Alabama, 5/1/07-10/31/08. Total: \$289,051.
25. Managed Lanes: Current Status and Future Opportunities, **Sisiopiku V.P.** (PI), Sullivan A. (Co-PI), University Transportation Center for Alabama, 1/1/07-9/30/08. Total: \$268,210.

26. Use of Traffic Responsive Signals to Address Weather Related and Non-Recurring Congestion, Sullivan A. (PI), **Sisiopiku V.P.** and Peters R.W. (co-PIs), University Transportation Center for Alabama, 1/1/07-12/31/07. Total: \$101,567.
27. Traffic Signal Systems on Oversaturated Arterials, Jones S. L. (PI), **Sisiopiku V.P.**, Anderson M. (Co-PIs), University Transportation Center for Alabama, 1/1/07-10/31/08. Total: \$150,000.
28. Development of a Dynamic Traffic Assignment Model to Evaluate Lane Reversal Plans for I-65, **Sisiopiku V.P.** (PI), and Sullivan A. (Co-PI), Alabama Department of Transportation, 8/1/06-12/31/08. Total: \$149,986.
29. Transit System Security: Planning, Design, and Institutional Issues, **Sisiopiku V.P.** (PI), National Science Foundation (NSF), UAB ADVANCE Scholars Program, 6/1/06-8/31/07. Total: \$20,000.
30. Review of Urban Transit Systems in Alabama, Anderson M. (PI), **Sisiopiku V.P.**, Jones S. (Co-PIs), University Transportation Center for Alabama, 6/1/06-11/30/06. Total: \$20,721.
31. Transportation Facilities Management under Emergencies, **Sisiopiku V.P.** (PI), and Peters R.W. (Co-PI), University Transportation Center for Alabama, 1/1/06-12/31/06. Total: \$100,000.
32. Dynamic Traffic Assignment Options, **Sisiopiku V.P.** (PI), National Science Foundation (NSF), UAB ADVANCE Program, 12/15/05-8/31/06. Total: \$10,000.
33. Dynamic Traffic Assignment Applications for Transit, **Sisiopiku V.P.** (PI), Mouskos K. and Parker N. (Co-PIs), Federal Transit Administration through the Great Urban Serving Universities Program, 9/1/05-7/1/07. Total: \$160,073.
34. Alternate Financing Sources for Alabama Highways, McLeod R. (PI), Robbins W., Rizk T., **Sisiopiku V.P.** (Co-PIs), University Transportation Center for Alabama, 1/1/05-5/31/06. Total: \$99,966.
35. Design and Safety of Modern Roundabouts, **Sisiopiku V.P.** (PI), National Science Foundation (NSF), UAB ADVANCE Program, 9/28/04-9/28/05. Total: \$20,000.
36. Exploration of Advanced Technologies for Enhancing Pedestrian Safety, **Sisiopiku V.P.** (PI), University of Alabama at Birmingham, 8/15/04-8/15/05. Total: \$15,926.
37. Applications of Freeway Ramp Metering in Alabama, **Sisiopiku V.P.** (PI), Sullivan A. (Co-PI), University Transportation Center for Alabama, 1/1/04-12/31/04. Total: \$100,000.
38. Development of a Statewide Traffic Signal Design/Timing Manual and Online Guide, Jones S. (PI), Sullivan A., **Sisiopiku V.P.** (Co-PIs), Alabama Department of Transportation, 12/1/03-6/30/05. Total: \$126,602.
39. Multidisciplinary Commercial Motor Vehicle Safety Research Program, Fouad F.H.(PI), **Sisiopiku V.P.**, Peters R.W., Schwebel D., and Uddin N.(Co-PIs), U.S. Department of Transportation, 9/15/03-9/30/05. Total: \$273,255.
40. U.S. Highway 280 Access Management Alternatives Analysis and Visualization, Jones S. (PI), **Sisiopiku V.P.**, Shih A. (Co-PIs), Regional Planning Commission of Greater Birmingham, 8/1/03-7/31/04. Total: \$92,933.
41. Intermodal Management System Update and Integration of Environmental Justice Elements into the Transportation Planning Process, Jones S. (PI), **Sisiopiku V.P.**, Sullivan A. (Co-PIs), Regional Planning Commission of Greater Birmingham, 9/1/03-3/31/05. Total: \$61,956.
42. Determining Aggressive Driver Characteristics and Behaviors in Traffic, Akin D. (PI), **Sisiopiku V.P.** (Co-PI), Turkish Prime Ministry, State Institute of Planning, 4/1/03-12/31/05. Total: \$20,000.

43. Regional Traffic Simulation for Emergency Preparedness, **Sisiopiku V.P.** (PI), Jones S. (Co-PI), University Transportation Center for Alabama, 1/1/03-1/31/04. Total: \$104,110.
44. Global Assessment of Hydrogen Based Technologies, Fouad F.H.(PI), Peters R.W., Jones S., Clark S., **Sisiopiku V.P.** (Co-PIs), U.S. Department of Energy, 8/1/02-8/31/07. Total: \$990,469.

#### Administrative and Service Grants

45. UAB University Transportation Center Workforce and Professional Development, **Sisiopiku V.P.** (PI), USDOT-STRIDE, 01/01/17-06/30/18. Total: \$67,764.
46. Empowering Girls in Science and Engineering, **Sisiopiku V.P.** (PI), USDOT-STRIDE, 01/01/16-09/30/16. Total: \$9,047.
47. Girls in Science and Engineering Day, **Sisiopiku V.P.** (PI) and Paterson, K., AAUW Campus Action Project Grant, 11/23/15-06/20/16. Total: \$3,000.
48. Looking into the Future: Smart Cities and Connected Transportation, **Sisiopiku V.P.** (PI), Red Mountain Project, 04/15/15-04/15/16. Total: \$1,000.
49. Promoting Traffic Safety and Economic Competitiveness in Alabama through STRIDE Related Research, Education, Technology Transfer and Workforce Development Initiatives, **Sisiopiku V.P.** (PI), USDOT-STRIDE, 01/31/14-08/31/17. Total: \$156,742.
50. K-12 Workforce Development Activities, **Sisiopiku V.P.** (PI), USDOT-STRIDE, 01/1/14-03/31/15. Total: \$19,828.
51. Funding Travel to the UTC Conference for the Southeast Region, **Sisiopiku V.P.** (PI), USDOT-STRIDE, 3/15/13-1/31/14. Total: \$2,500.
52. Professional Development: Funding Travel for STRIDE-Affiliated Faculty, Staff, and Students, **Sisiopiku V.P.** (PI), USDOT-STRIDE, 12/1/12-12/31/13. Total: \$4,500.
53. Development of Educational and Professional Training Modules on Green/Sustainability Design and Rating Systems for Neighborhood Development and Transportation, Peters R.W. (PI), **Sisiopiku V.P.**, and Amekudzi A. (co-PIs), USDOT-STRIDE, 07/01/12-09/30/15. Total: \$94,709.
54. Transportation Workforce Development, **Sisiopiku V.P.** (PI), USDOT-STRIDE, 01/01/12-3/31/14. Total: \$13,604.
55. UAB's Role in Promoting Traffic Safety, Livability, and Economic Competitiveness within the STRIDE Regional UTC Consortium, **Sisiopiku V.P.** (PI), USDOT-STRIDE, 1/1/12-1/31/14. Total: \$56,066.
56. Student Funding to Attend TRB Conference, Anderson M. (PI), and Lou Y., **Sisiopiku V.P.** (Co-PIs), University Transportation Center for Alabama, 1/13/12-2/28/12. Total: \$40,175.
57. Student Funding to Attend TRB Conference, Anderson M. (PI), **Sisiopiku V.P.**, and Lou Y. (Co-PIs), University Transportation Center for Alabama, 10/1/09-2/28/10. Total: \$30,000.
58. Student Professional Development Funding, Anderson M. (PI), **Sisiopiku V.P.**, and Turner D. (Co-PIs), University Transportation Center for Alabama, 10/1/09-2/28/10. Total: \$32,238.
59. Funding Student Professional Development Activities, Anderson M. (PI), **Sisiopiku V.P.**, Turner D. (Co-PIs), University Transportation Center for Alabama, 10/1/08-2/28/09. Total: \$14,740.
60. Enhancing Research and Training in Transportation Engineering, **Sisiopiku V.P.** (PI), University of Alabama at Birmingham, 6/11/07-10/1/08. Total: \$10,000.

61. Traffic Counting Services for the Regional Planning Commission, Sullivan A. (PI) and **Sisiopiku V.P.** (co-PI), Regional Planning Commission of Greater Birmingham (RPCGB), 5/8/07-11/30/07. Total: \$15,000.
62. Funding Student Professional Development Activities, Anderson M. (PI), **Sisiopiku V.P.**, Turner D. (Co-PIs), University Transportation Center for Alabama, 7/1/07-2/28/08. Total: \$24,332.
63. Student Funding to Attend TRB Conference, Anderson M. (PI), **Sisiopiku V.P.**, Turner D. (Co-PIs), University Transportation Center for Alabama, 5/1/06-2/28/07. Total: \$24,332.
64. Transportation Engineering Students Professional Development, Anderson M. (PI), **Sisiopiku V.P.**, Turner D. (Co-PIs), University Transportation Center for Alabama, 5/1/05-2/28/06. Total: \$25,772.
65. Student Funding for Professional Development, Anderson M. (PI), **Sisiopiku V.P.**, Turner D. (Co-PIs), University Transportation Center for Alabama, 1/1/04-1/31/05. Total: \$25,701.
66. Access Management Training, **Sisiopiku V.P.** (PI), University Transportation Center for Alabama, 7/15/03-7/15/04. Total: \$20,728.
67. Student Funding for Professional Development, Anderson M. (PI), **Sisiopiku V.P.**, Lindly J. (Co-PI), University Transportation Center for Alabama, 1/1/03-1/31/04. Total: \$24,064.
68. Use of Cell-Phone Location Data in Estimating O-D Matrices in Urban Travel Demand Forecasting, Akin D. (PI), Kucur D., **Sisiopiku V.P.** (Co-PIs), Gebze Institute of Technology, 7/15/02-12/31/03. Total: \$3,500.

#### [At Michigan State University \(MSU\)](#)

69. Promoting Walkable Communities, **Sisiopiku V.P.** (PI), Michigan Department of Community Health, 3/1/02-9/30/02. Total: \$20,000.
70. Building an Active Community Environment, Wilkerson R. (PI), **Sisiopiku V.P.** (Co-PI), Jackson Community Foundation, Consumers Energy Foundation, and Foote Hospital, 1/1/02-9/30/02. Total: \$38,550.
71. Community Walk Alert Program, **Sisiopiku V.P.** (PI), Office of Highway Safety Planning, 10/1/01-9/30/02. Total: \$20,000.
72. Field Test of Variable Speed Limits in Work Zones (in Michigan), Grossklaus J. (PI), Taylor W.C., Lyles R., **Sisiopiku V.P.** (co-PIs), Federal Highway Administration, USDOT, 10/1/01-2/28/03. Total: \$648,403.
73. ATMS Evaluation in South Michigan, Taylor W.C. (PI), **Sisiopiku V.P.** (Co-PI), Michigan Department of Transportation (MDOT), 61-7899, 4/26/01-3/30/02. Total: \$53,170.
74. Safe Ways to School for Michigan Children, **Sisiopiku V.P.** (PI), Office of Highway Safety Planning, 5/4/01-9/30/02. Total: \$18,578.
75. Evaluation of Costs and Revenues from Electronic Red Light Running Enforcement, **Sisiopiku V.P.** (PI), Case Center's Management of Technology and Innovation Program (MSU), 1/1/01-5/15/01. Total: \$12,423.
76. Pedestrian Safety: A Building Block for Safe Communities, **Sisiopiku V.P.** (PI), Office of Highway Safety Planning, 10/15/00-9/30/01. Total: \$25,000.
77. Parking on the State Trunkline System, **Sisiopiku V.P.** (PI), Michigan Department of Transportation (MDOT), 2/1/00-8/30/00. Total: \$30,527.

78. System Community Walk Alert Safety Program, **Sisiopiku V.P.** (PI), Office of Highway Safety Planning, 11/15/99-9/30/00. Total: \$30,000.
79. Walkable Communities Pedestrian Safety Program, **Sisiopiku V.P.** (PI), Office of Highway Safety Planning, 12/15/98-9/30/99. Total: \$31,834.
80. Evaluation of Michigan ITS Deployment (Phase 2), Taylor W.C. (PI), **Sisiopiku V.P.** (Co-PI), Michigan Department of Transportation (MDOT), 61-9438, 1/1/99-12/31/00. Total: \$38,600.
81. Assessment of Wireless Communications Issues With Respect to Advanced Rural Transportation Systems, **Sisiopiku V.P.** (PI), Federal Highway Administration (FHWA), 9/15/98-9/15/99. Total: \$35,212.
82. An Evaluation of Speed Control Techniques in Work Zones, Lyles R.(PI), **Sisiopiku V.P.** (Co-PI), Michigan Department of Transportation, 3/1/98-12/31/98. Total: \$79,913.
83. Grand River Avenue (M-43) Pedestrian Study, **Sisiopiku V.P.** (PI), Michigan Department of Transportation, 1/1/98-12/31/98. Total: \$61,037.
84. Application and Design of Loons at Narrow Median Crossovers, **Sisiopiku V.P.** (PI), Great Lakes Center for Truck and Transit Research, 9/1/97-6/30/98. Total: \$47,764.
85. Work Zone Speed Study, Lyles R. (PI), **Sisiopiku V.P.** (Co-PI), Michigan Department of Transportation, 7/1/97-6/30/98. Total: \$70,086.
86. Evaluation of the Use of Roundabouts, **Sisiopiku V.P.** (PI), All-University Research Initiation Grants Program, 05/15/97-08/15/98. Total: \$14,881.
87. Collection and Analysis of Data to Perform an Assessment of the Effectiveness of the ATMS Deployment in Alleviating Congestion in Southeastern Michigan, Taylor W.C. (PI), **Sisiopiku V.P.** (Co-PI), Michigan Department of Transportation, 4/1/96-4/1/98. Total: \$103,220.
88. Southfield Freeway (M-39) Congestion Analysis, **Sisiopiku V.P.** (PI), Michigan Department of Transportation (MDOT), 61-9406, 10/11/95-12/31/96. Total: \$41,441.
89. International Advances in Transportation Methods and Technologies, **Sisiopiku V.P.** (PI), GAPS Program, International Studies and Programs, Michigan State University, 5/16/96-12/16/96, \$12,000.
90. Commercial Vehicle Operations, **Sisiopiku V.P.** (PI), Federal Highway Administration, 9/1/95-9/1/96. Total: \$34,848.
91. Travel Time Estimation based on Closed-Loop System Detector Output, **Sisiopiku V.P.** (PI), N. Roupail (Co-PI), Federal Highway Administration, 09/01/92-02/28/93. Total: \$14,058.

### **Investigator Responsibilities**

92. A Naturalistic Driving Study Across the Lifespan, Stavrinou D. and L. Ross L. (PIs), **Sisiopiku V.P.** (Investigator), USDOT-STRIDE, 06/15/12-09/30/15. (UAB contract award: \$232,014).
93. Bringing Freight Components into Statewide and Regional Travel Demand Forecasting, Lee D. (PI), **Sisiopiku V.P.** (Investigator), USDOT-National Center for Transportation System Productivity and Management, 06/15/12-02/28/16. (UAB subcontract award: \$56,000).
94. Performance Measurement System (PeMS) Research and Support (V11): Effects of Weather on Freeway Operations and Congestion, Skabardonis A. (PI), **Sisiopiku V.P.** (Investigator); CALTRANS.



95. GO-ing Forward, Fouad M. (PI); **Sisiopiku V.P.** (Investigator); NIH- National Center on Minority Health and Health Disparities, 09/30/09-07/31/12. (UAB contract award: \$564,638).
96. Use of Benchmarking Techniques for Comparisons between Transit Services in Great Cities, Beimborn E. (PI), Greenwald M. (Co-PI); Sisiopiku V.P. (Investigator); Federal Transit Administration, 7/15/03-7/14/04. (UAB subcontract award: \$3,500).
97. Application of Neural Networks to Data Fusion: A Feasibility Study, Nelson P.C. (PI); Sisiopiku V.P. (Investigator); TRB IDEA Program; National Research Council, 9/1/94-8/31/95. Total: \$96,788.
98. Design of an Advanced Driver and Vehicle Advisory Navigation Concept (ADVANCE II), Roupail N.M. (PI); Sisiopiku V.P. (Investigator); Illinois Universities Transportation Research Consortium, 7/1/92-9/30/93. Total: \$397,311.
99. Design of an Advanced Driver and Vehicle Advisory Navigation Concept (ADVANCE I), Boyce D.E. (PI); Sisiopiku V.P. (Investigator); Illinois Universities Transportation Research Consortium, 7/25/91-9/30/92. Total: \$339,000.
100. Calibration and Validation of Capacity Analysis Procedures for Left Turn Lanes in Illinois, Roupail N.M. (PI); Sisiopiku V.P. (Investigator); Illinois Department of Transportation, 7/1/90-12/31/92. Total: \$151,574.
101. Validation of the 1985 HCM Procedures for Capacity and Level of Service of Left-Turn Lanes in Illinois, Roupail N.M. (PI); Sisiopiku V.P. (Investigator); Illinois Department of Transportation, 7/1/89-6/30/90. Total: \$50,000.

### Consulting Activities

102. School Transportation: Development of an Education Module, McDonald N. (PI), **Sisiopiku V.P.** (Consultant); University of North Carolina Chapel Hill, 2013, \$2,880.
103. Costs of School Transportation, McDonald N. (PI), **Sisiopiku V.P.** (Consultant); University of North Carolina Chapel Hill, 2013, \$6,800.
104. Environmental Changes and Health Outcomes across 25 Years: Four US Cities, Gordon-Larsen P. (PI), **Sisiopiku V.P.** (Consultant); University of North Carolina Chapel Hill, 2012, \$8,930.
105. Feasibility Analysis of Converting Certain One-Way Streets to Two-Way Traffic in Birmingham's City Center, Gonzales M. (PI), **Sisiopiku V.P.** (Consultant); City of Birmingham and Gonzalez-Strength & Associates, Inc., 2008, \$26,022.
106. Baseline Performance Analysis of CTA Bus Routes 3 & 79, Michaels R.M. (PI), **Sisiopiku V.P.** (Consultant); US Department of Transportation, Volpe National Transportation Systems Center, 2/1/94-6/30/94. Total: \$24,936.
107. Conduct of Focus Groups to Provide Criteria for Public Education on the Kennedy Expressway Reversible Lane Control System, Michaels R.M. (PI), **Sisiopiku V.P.** (Consultant); Illinois Department of Transportation (IDOT), 3/1/94-8/31/94. Total: \$23,742.

## OTHER FUNDED ACTIVITIES

108. University of Alabama in Greece Program Honorarium (**V.P. Sisiopiku**); University of Alabama, June 2012, \$2,500.
109. 2011 Mervyn H. Sterne Library Faculty Grant for Collection Development (**V.P. Sisiopiku**, PI); University of Alabama at Birmingham, March 2011, \$1,628.
110. Alabama in Greece Program Honorarium (**V.P. Sisiopiku**); University of Alabama, May 2010, \$2,500.
111. International Travel Fellowship (**V.P. Sisiopiku**); Federal Highway Administration, June 2008, \$1,400.
112. Dwight David Eisenhower Faculty Fellowship Grant (**V.P. Sisiopiku**); Federal Highway Administration (FHWA), May 2003, \$2,995.
113. 2003 Mervyn H. Sterne Library Faculty Grant for Collection Development (**V.P. Sisiopiku**, PI), University of Alabama at Birmingham, April 2003, \$1,929.
114. Dwight David Eisenhower Faculty Fellowship Grant (**V.P. Sisiopiku**); Federal Highway Administration (FHWA), DDEFFP-02-X-00303, December 2001, \$2,655.
115. Division of Civil & Mechanical Systems (CMS), NSF Directorate for Engineering (**V.P. Sisiopiku**), WEE 2001, October 2001, \$500.
116. Special Foreign Travel Fund Award (**V.P. Sisiopiku**); International Studies and Programs, Michigan State University, June 2000, \$750.
117. Engineering International Programs Funds (**V.P. Sisiopiku**); Institute for Global Engineering Education, Michigan State University, July 2000, \$780.
118. Engineering International Programs Funds (**V.P. Sisiopiku**); Institute for Global Engineering Education, Michigan State University, June 1998, \$940.
119. Special Foreign Travel Fund Award (**V.P. Sisiopiku**); International Studies and Programs, Michigan State University, October 1998, \$630.
120. Special Foreign Travel Fund Award (**V.P. Sisiopiku**); International Studies and Programs, Michigan State University, June 1998, \$500.
121. Dwight David Eisenhower Faculty Fellowship Grant (**V.P. Sisiopiku**); Federal Highway Administration (FHWA), DDEFFP-95-X-00713, August 1995, \$1,780.

## PUBLICATIONS

### Theses Published

1. **Sisiopiku, V.P.** (1994). *Travel Time Estimation from Loop Detector Data for Advanced Traveler Information Systems Applications*, Ph.D. Thesis.
2. **Sisiopiku, V.P.** (1991). *Capacity Analysis Models for Exclusive Left-Turn Lanes*, M.S. Thesis.
3. **Sisiopiku, V.P.** (1988). *A Feasibility Study on the Application of a Light Rail System in Thessaloniki Metropolitan Area*, B.S. Thesis.

### Books and Book Chapters

4. **Sisiopiku, V.P.**, and Ramadan, O.E., Editors (2015). *Urban Planning and Civil Engineering*, ISBN

978-960-598-009-2, August 2015, 410 pages.

5. **Sisiopiku, V.P.**, and Abro, A.M. (2014). "Establishing the Connection between Livable Community Assets and Public Health", In *Intercultural Dialogue on Health Economics, Management and Policy: Challenges and Chances*, Sabine Bohnet-Joschko and Zoe Boutsoli Editors, ISBN 978-618-5065-26-3, June 2014, pp. 41-54.
6. **Sisiopiku, V.P.** (2012). "Active Traffic Management as a Tool for Addressing Traffic Congestion", In *Intelligent Transportation Systems*, Ahmed Abdel-Rahim Editor, ISBN 979-953-307-420-6, March 2012, pp. 169-188.
7. **Sisiopiku, V.P.**, Sullivan, A., Foster, J., and Fine, P.R. (2011). "Emergency Response and Traffic Congestion: The Dispatchers Perspective". In *Disaster Management and Human Health Risk II. Reducing Risk, Improving Outcomes*, C.A. Brebbia, A.J. Kassab, and E.A. Divo Editors, WIT Press, ISBN 978-1-84564-536-6, 2011, 125-136.

### Journal Papers

8. Zheng, Y., Chase, T., Elefteriadou, L., **Sisiopiku, V.P.**, and Schroeder, B. (2017). "Driver Types and their Behaviors within a High Level of Pedestrian Activity Environment". *Transportation Letters*, Vol. 9 (1), January 2017, pp. 1-11.
9. Kondyli, A., Barmpoutis, A., **Sisiopiku, V.P.**, Zhang, L., Zhaob, L., Islam, M.M., Patil, S.S. and Rostami Hosuri, S. (2017). "A 3D Body Posture Analysis Framework during Merging and Lane Changing Maneuvers". *Journal of Transportation Safety & Security*, pp. 1-18, DOI: 10.1080/19439962.2017.1294226
10. Doustmohammadi, E. and **Sisiopiku, V.P.** (2016). "Modeling Truck Movements: A Comparison between the Quick Response Freight Manual (QRFM) and Tour-based Approaches". *International Journal of Engineering and Science Invention*, Vol. 5 (11), November 2016, pp. 45-51.
11. Stavrinos, D., Mosley, P.R., Wittig, S.M., Johnson, H.D., Decker, J.S., **Sisiopiku, V.P.**, & Welburn, S.C. (2016). "Visual Distraction by Digital Advertising Billboards in Drivers across the Lifespan". *Transportation Research Part F: Traffic Psychology and Behaviour*, Vol. 41, Part A, August 2016, pp. 19-28.
12. Doustmohammadi, E., **Sisiopiku, V.P.**, and Sullivan, A. (2016). "Modeling Freight Truck Trips in Birmingham Using Tour-based Approach", *Journal of Transportation Technologies*, 6, 436-448.
13. Ramadan, O.E., and **Sisiopiku, V.P.** (2016). "Impact of Bottleneck Merge Control Strategies on Freeway Level of Service", *Transportation Research Procedia*, Vol. 15, pp. 583-593.
14. Zheng, Y., Chase, T., Elefteriadou, L., Chase, T., V.P., Schroeder, B., and **Sisiopiku, V.** (2016). "Pedestrian Traffic Operations in Urban Networks", *Transportation Research Procedia*, Vol 15, pp.134-149.
15. **Sisiopiku, V.P.**, Mamidipalli, S., Schroeder, B., and Elefteriadou, L. (2016). "Time-of-day Visibility-based Pedestrian Gap Acceptance Model for Two-way Stop Controlled Crossings", *Journal Procedia Engineering*, 161 (2016), pp. 241-246.
16. Doustmohammadi, E., **Sisiopiku, V.P.**, Anderson, M.D., Doustmohammadi, M., and Sullivan, A. (2016). "Evaluation of Freight Demand Forecasting Models", *International Journal of Traffic and Transportation Engineering*, Vol 5, No. 1, May 2016, pp. 19-26.

17. Ramadan, O. and **Sisiopiku, V.P.** (2016). "Evaluation of Merge Control Strategies at Interstate Work Zones Under Peak and Off-Peak Traffic Conditions", *Journal of Transportation Technologies, Special Issue on Transportation Planning and Management*, Vol 6, No. 3, pp. 118-130.
18. Zheng, Y., Chase, T., Elefteriadou, L., **Sisiopiku, V.P.**, Schroeder, B. (2016). "Driver Types and Their Behaviors within a High Level of Pedestrian Activity Environment". *Transportation Letters: the International Journal of Transportation Research*, Jan. 2016, pp. 1-11.
19. Schwebel, D.C., Combs, T., Rodriguez, D., Severson, J., and **Sisiopiku, V.** (2016). "Community-Based Pedestrian Safety Training in Virtual Environment: A Pragmatic Trial", *Accident Analysis and Prevention*, Jan. 2016; Vol 86, pp. 9-15.
20. Ramadan, O. and **Sisiopiku, V.P.** (2015). "Bottleneck Merge Control Strategies in the United States: A Review of Available Options and Current Practices", *Open Journal of Civil Engineering*, Vol 5, No 4, pp. 428-436.
21. Mamidipalli, S., **Sisiopiku, V.P.**, Schroeder, B., Elefteriadou, L., and Salamati, K. (2015). "A Probit-based Pedestrian Gap Acceptance Model for Mid-Block Crossing Locations", *Transportation Research Record: Journal of the Transportation Research Board*, No. 2519, pp. 128-136.
22. Zheng, Y., Chase, T., Elefteriadou, L., Schroeder, B., and **Sisiopiku, V.P.** (2015). "Modeling Vehicle-Pedestrian Interactions Outside the Crosswalks", *Simulation Modelling Practice and Theory*, Vol. 59, Dec. 2015, pp. 89-101.
23. Barmpoutis, A., **Sisiopiku, V.P.**, Zhao, L., and Kondyli, A. (2015). "Computer Assisted Analysis of Drivers' Body Activity Using a Range Camera", *IEEE Intelligent Transportation Systems Magazine*, 7(3), pp. 18-28.
24. Mamidipalli, S., **Sisiopiku, V.P.**, Schroeder, B., and Elefteriadou, L. (2015). "A Review of Analysis Techniques and Data Collection Methods for Modeling Pedestrian Crossing Behaviors", *Journal of Multidisciplinary Engineering Science and Technology*, Vol. 2 Issue 2, pp. 225-232.
25. **Sisiopiku, V.P.**, Hester, D., Gan, A., Stavrinou, D., and Sullivan, A. (2015). "Digital Roadside Advertising and Traffic Safety", *Urban Planning and Civil Engineering*, August 2015, pp. 43-54.
26. Decker, J.S., Stannard, S.J., McManus, B., Wittig, S.M.O., **Sisiopiku, V.P.**, and Stavrinou, D. (2015). "The Impact of Billboards on Drivers' Visual Attention: A Systematic Literature Review", *Traffic Injury Prevention*, Vol. 16, Issue 3, pp. 234-239.
27. **Sisiopiku, V.P.**, Islam, Md. M., and Sullivan, A. (2014). "Traffic Safety Risks from Digital Advertising Billboards in Alabama", *International Journal of Engineering Research and Development*, Vol. 10, Issue 11, November 2014, pp. 30-36.
28. McDonald, N., R. Steiner, M. Palmer, A. Bullock, **V. Sisiopiku**, B. Lytle. (2014). "Costs of School Transportation: Quantifying the Fiscal Impacts of Encouraging Walking and Bicycling for School Travel". *Transportation*, DOI 10.1007/s11116-014-9569-7, Springer ©, Nov. 2014.
29. **Sisiopiku, V.P.**, and Barbour, N. (2014). "Use of GIS Spatial Analysis to Identify Food Deserts in the State of Alabama", *Athens Journal of Health*, Vol. 1, No. 2, June 2014, pp. 91-103.
30. Hale, T.M., **Sisiopiku, V.P.**, and Cotten, S.R. (2013). "Online Motorcycle Safety Information Seeking and its Relationship to Risk Taking and Protective Behaviors", *Safety Science Monitor*, Vol. 17, Issue 2, pp. 1-14.

31. Stavrinou, D., Jones, J.L., Garner, A.A., Griffin, R., Franklin, C.A., Ball, D., Welburn, S.C., Ball, K.K., **Sisiopiku, V.P.**, and Fine, P.R. (2013). "Impact of Distracted Driving on Safety and Traffic Flow". *Accident Analysis and Prevention*, Dec. 2013, Vol. 61, pp. 63-70 (ScienceDirect Top 25 List; 3<sup>rd</sup> most downloaded article in Accident Analysis and Prevention in 2014).
32. Milner, A., Baker, L., and **Sisiopiku, V.P.** (2013). "Motivations and Barriers to Utilizing Adult Walking Buses: An Examination of Demographic Correlates of Willingness to Participate in a Community-based Walking Program". *Open Journal of Preventive Medicine (OJPM)*, Dec. 2013, Vol.3, No.9, pp. 517-525.
33. Cavusoglu, O., **Sisiopiku, V.P.**, and Ruiz Juri, N. (2013). "The Role of Transit in Carless Evacuation Planning", *ASCE Journal of Natural Hazards Review*, Aug. 2013, Vol. 14, Issue 3, pp. 119-200.
34. **Sisiopiku, V.P.**, Ramadan, O. and McDonald, N.C. (2013). "Development of a Cost Breakdown Structure for Quantifying School Transportation Costs for Various Modes". *European International Journal of Science and Technology*, July 2013, Vol. 2, No. 6, pp. 235-250.
35. **Sisiopiku, V.P.**, Imran, M.S., and Abro, A.M. (2013). "Impacts of Transit-Oriented Development in a Small Community Setting", *International Journal of Engineering and Industries*, June 2013, Vol. 4, No 2, pp. 74-89.
36. **Sisiopiku, V.P.**, and Abro, A.M. (2013). "Livable Community Assets and Public Health". *Journal of ATINER on Economy and Health (Journal of Oikonomia and Hygeia)*, Vol. 3, No 2, pp. 8-20 [Published in Greek].
37. Baskin, M. L., Davis, W. J., Droge, M. J., Evenson, K., Ferranti, S. R., Galbraith, M. G., McDonald, N.C., Meehan, L.A., Mendoz, J.A., Miller, R.E., Patterson, B., Ring, R. Raunault, E., Sallis, J.F., **Sisiopiku, V.P.** and Truch, P. A. (2013). "Exploring Transportation's Role in Reducing Childhood Obesity", *ITE Journal-Institute of Transportation Engineers*, 83(1), pp. 18-19.
38. **Sisiopiku, V.P.**, Kalle, B.R., and Sullivan, A. (2012). "Qualification of Non-Recurring Congestion Using GPS Data", *Journal of Modern Traffic and Transportation Engineering Research (MTTER)*, Vol. 1, Issue 2, pp. 54-60.
39. **Sisiopiku, V.P.** and Islam, S.M. (2012). "A Freeway Travel Time Reliability Study", *International Journal of Engineering Research and Development*, Vol. 3, Issue 10 (Sept 2012), pp. 83-101.
40. **Sisiopiku, V.P.**, and Cavusoglu, O. (2012). "Incident and Emergency Medical Services Management from a Regional Perspective", *International Journal of Environmental Research in Public Health*, 9, No 7: Preparedness and Emergency Response, pp. 2266-2282.
41. **Sisiopiku, V.P.**, and Alnazer, S. (2012). "Determining the Suitability of Freeway Corridors for Managed Lanes Deployment", *International Journal of Engineering Research and Applications (IJERA)*, Vol. 2, Issue 3, May-Jun 2012, pp. 1236-1244.
42. **Sisiopiku, V.P.**, and Cavusoglu, O. (2011). "Evaluating Designated Truck Lane Strategies for an Urban Freeway Corridor", *Journal of Transportation of the ITE- Institute of Transportation Engineers*, Vol. 2, No 1, October 2011, pp. 57-70.
43. Akin, D., **Sisiopiku, V.P.**, Skabardonis, A., and Cristofa, E. (2011). "Impacts of Weather on Traffic Flow Characteristics of Urban Freeways in Istanbul", *Transportation Research Board, Procedia - Social and Behavioral Sciences*, Vol. 16, 2011, pp. 89-99.

44. **Sisiopiku, V.P.**, and Sullivan, A. (2011). "Impacts of Signal System Timings on Rain Related Congestion", *International Journal of Engineering and Industries*, Vol. 2, No. 1, March 2011, pp. 1–12.
45. Turner, D., Evans, W., Kumlachew, M., Wolshon, B., Dixit, V., **Sisiopiku, V.P.**, Islam, S., and Anderson, M., (2010). "Issues, Practices, and Needs for Communicating Evacuation Information with Vulnerable Populations", *Transportation Research Record: Journal of the Transportation Research Board*, No. 2196, Network Modeling 2010, Transportation Research Board of the National Academies, Washington, D.C., December 2010, pp 159-167.
46. **Sisiopiku, V.P.**, and Chemmannur, J. (2010). "Conversion of One- to Two Way Streets in Birmingham, Alabama", *Journal of Civil Engineering and Architecture*, August 2010, Vol. 4, No.8 (Serial No. 33), pp. 27-36.
47. Jones, S.L. and **Sisiopiku, V.P.** (2007). "Safety at Isolated High-Speed Signalized Intersections: Synthesis". *ASCE Journal of Transportation Engineering*, Vol. 133, No. 9, Sept. 2007, pp. 523-528.
48. **Sisiopiku, V.P.**, Byrd, J.E., and Chittoor, A. (2007). "Application of Level of Service Methods for the Evaluation of Operations at Pedestrian Facilities". *Journal of the Transportation Research Board, Transportation Research Record (TRR): No. 2002*, Transportation Research Board of the National Academies, Washington, D.C., pp. 117-124.
49. **Sisiopiku, V.P.**, Li, X., Mouskos, K. C., Kamga, C., Barrett, C., and Abro, A.M. (2007). "Dynamic Traffic Assignment Modeling for Incident Management". *Journal of the Transportation Research Board, Transportation Research Record (TRR): No. 1994*, Transportation Research Board of the National Academies, Washington, D.C., pp. 110-116.
50. **Sisiopiku, V.P.** (2007). "Application of Traffic Simulation Modeling for Improved Emergency Preparedness Planning". *ASCE Journal of Urban Planning*, Vol. 133, No. 1, March Issue, pp. 51-60.
51. **Sisiopiku, V.P.**, Rousseau, A., Fouad, F.H., and Peters, R.W. (2006). "Technology Evaluation of Hydrogen Light-Duty Vehicles". *ASCE Journal of Environmental Engineering*, Vol. 132, No. 6, June Issue, pp. 568-574.
52. Tao, R., Wei H., Wang Y., and **Sisiopiku, V.P.** (2005). "Modeling Speed Disturbance Absorption Following State-Control Action-Expected Chains: Integrated Car-Following and Lane-Changing Scenarios". *Journal of the Transportation Research Board, Transportation Research Record (TRR): No. 1934*, Transportation Research Board of the National Academies, Washington, D.C., pp. 83-93.
53. **Sisiopiku, V.P.**, and Elliot, J.R. (2005). "Active Warning Systems: A Synthesis", *ASCE Journal of Transportation Engineering*, Vol. 131, No. 3, March 2005, pp. 205-210.
54. **Sisiopiku, V.P.**, and Akin, D. (2003). "Pedestrian Behaviors at and Perceptions towards Various Pedestrian Facilities: An Examination Based on Observation and Survey Data", *Transportation Research, Part F, Vol. 6, Issue 4*, December 2003, pp. 249-274.
55. **Sisiopiku, V.P.**, and Oh, H. (2001). "Evaluation of Roundabout Performance Using SIDRA", *ASCE Journal of Transportation Engineering*, Vol. 127, No. 2, March/April Issue, pp. 143-150.
56. **Sisiopiku, V.P.**, and Oh, H. (2001). "Stay on These Roads -ITS Applications for Winter Maintenance in the USA", *Traffic Technology International*, June/July 2001, Surrey, UK, p. 78-83.

57. Yang, Q., **Sisiopiku, V.P.**, Arnold, J.A., Pisano, P., and Nelson, G. (2000). "Assessment of Rural ITS Wireless Communications Solutions", *Journal of the Transportation Research Board, Transportation Research Record (TRR): No 1739*, Transportation Research Board of the National Academies, Washington, D.C., pp. 51-58.
58. **Sisiopiku, V.P.**, and Patel, H. (1999). "Study of the Impact of Police Enforcement on Motorists Speeds", *Journal of the Transportation Research Board, Transportation Research Record (TRR): No 1693*, Transportation Research Board of the National Academies, Washington, D.C., pp. 31-36.
59. **Sisiopiku, V.P.**, Taylor, W., Patel H. (1998). "Effects of Police Presence in an Increased Speed Zone", *ITE Journal, Vol. 68, Issue 3*, pp. 12.
60. Zhou, M., and **Sisiopiku, V.P.** (1997). "On the Relationship between Volume to Capacity Ratios and Accident Rates", *Transportation Research Record 1581*, Washington, D.C., pp. 47-52.
61. **Sisiopiku, V.P.**, Roupail, N.M., and Santiago, A. (1994). "Analysis of the Correlation between Arterial Travel Time and Detector Data from Simulation and Field Studies", *Journal of the Transportation Research Board, Transportation Research Record (TRR): No 1457*, Transportation Research Board of the National Academies, Washington, D.C., pp. 166-173.
62. **Sisiopiku, V.P.**, and Roupail, N.M. (1994). "Towards the Use of Detector Output for Arterial Link Travel Time Estimation: A Literature Review", *Journal of the Transportation Research Board, Transportation Research Record (TRR): No 1457*, Transportation Research Board of the National Academies, Washington, D.C., pp. 158-165.

[Conference Proceedings Papers \(Refereed, 3 to 5 reviewers\)](#)

63. Kondyli, A., Barmpoutis, A., and **Sisiopiku, V.P.** (2016). "Safety-Related Analysis of the 3D Driver Body Posture Using Naturalistic Data", Proceedings of the TRB 95<sup>th</sup> Annual Meeting, Washington, D.C.
64. **Sisiopiku, V.P.**, Peters, R.W., and Ramadan, O. (2015). "Introducing Sustainability Design and Assessment Methods into the Civil Engineering Curriculum", Proceedings of the 122<sup>nd</sup> Annual Conference & Exposition of the American Society of Engineering Education (ASEE), Seattle, WA.
65. **Sisiopiku, V.P.**, Islam, Md, Haleem, K., Gan, A., and Alluri, P. (2015). "Investigation of Potential Relationship between Crash Occurrence and Presence of Digital Advertising Billboards in Alabama and Florida", Proceedings of the 94<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C.
66. Mamidipalli, S., **Sisiopiku, V.P.**, Schroeder, B., Elefteriadou, L., and Salamati, K. (2015). "A Probit-based Pedestrian Gap Acceptance Model for Mid-Block Crossing Locations", Proceedings of the 94<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C.
67. Hunter, E., Salamati, K., Elefteriadou, L., **Sisiopiku, V.**, Roupail, N., Phillips, B., and Schroeder, B. (2015). "Driver Yielding at Unsignalized Midblock Crossings", Proceedings of the 94<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C.
68. Zheng, Y., Chase, T., Elefteriadou, L., Schroeder, B., and **Sisiopiku, V.P.** (2015). "Where Do Pedestrians Jaywalk and How Do Drivers React? -- A Study within a Campus Environment", Proceedings of the 94<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C.

69. Kondyli, A., **Sisiopiku, V.P.**, and Barmpoutis, A. (2013). "A 3D Experimental Framework for Exploring Driver's Body Activity using Infrared Depth Sensors", Proceedings of the IEEE International Conference on Connected Vehicles, Las Vegas, NV. **Recipient of Merit Award Certificate.**
70. Seeherman, J., **Sisiopiku, V.P.**, and Skabardonis, A. (2012). "Assessment of the Impact of Weather on Freeway Operations in California", Proceedings of the 91<sup>st</sup> Transportation Research Board Annual Meeting, Washington, D.C.
71. Hale, T., **Sisiopiku, V.P.**, Cotten, S. (2012). "The Relationship of Internet Safety Information Seeking on Risky Riding Behavior and Use of Protective Gear among an Online Motorcycle Community", Proceedings of the 91<sup>st</sup> Transportation Research Board Annual Meeting, Washington, D.C.
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73. Zhong, C., **Sisiopiku, V.P.**, Ksaibati K., and Zhong, T. (2011). "Crash Prediction on Rural Roads", Proceedings of the 3rd International Conference on Road Safety and Simulation, Indianapolis, IN.
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77. Turner, D., Wolshon, B., Dixit, V., Evans, W., **Sisiopiku, V.P.**, Islam, S., and Anderson M. (2010). "Transportation-Oriented Communications with Vulnerable Populations During Major Emergencies: Current Challenges and Best Practices", Proceedings of the 89<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C.
78. Waid, J.C., Turochy, R., and **Sisiopiku, V.P.** (2009). "Innovative Financing Sources for State Highways: Alabama Revenue from a Vehicle Mileage Road User Fee", Proceedings of the 88<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C.
79. **Sisiopiku, V.P.**, and Fadel, G. (2009). "Analysis of Impacts from Temporary Left- and Right-Shoulder Lane Use as an Active Traffic Management Strategy", Proceedings of the 2009 Huntsville Simulation Conference, Huntsville, AL.
80. **Sisiopiku, V.P.**, Acharya, A., Anderson, M., and Turner, D. (2009). "Evaluation of Traffic Signal Performance under Oversaturated Conditions Using VISTA". Proceedings of the 2009 Transportation Simulation Symposium (TSS 09), Spring Simulation Multiconference 2009, San Diego, CA.
81. **Sisiopiku, V.P.**, and Cavusoglu, O. (2007). "Implementation of High Occupancy Vehicle Lanes". Proceedings of the 2007 Huntsville Simulation Conference, Huntsville, AL.



82. **Sisiopiku, V.P.**, Peters, R.W., and Fouad, F.H. (2007). "Emissions Associated with Various Driving Cycles for Light-Duty Vehicles", Proceedings of the 2007 Huntsville Simulation Conference, Huntsville, AL.
83. **Sisiopiku, V.P.**, and Waid, J.C. (2007). "The Potential of Vehicle Mileage Road User Fee as Alternate Financing Option for State Highways", Proceedings of the 86<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C.
84. **Sisiopiku, V.P.**, Li, X., Mouskos, K.C., Kamga, C., Barrett, C., and Abro, A.M. (2007). "Dynamic Traffic Assignment Modeling for Incident Management" Proceedings of the 86<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C.
85. Akin, D., and **Sisiopiku, V.P.** (2007). "Pedestrian Crossing Compliance Characteristics At-grade Signalized Crosswalks: Case study in a Downtown-university Campus Environment", Proceedings of the 86<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C.
86. **Sisiopiku, V.P.**, Byrd, J.E., and Chittoor, A. (2007). "Application of Level of Service Methods for the Evaluation of Operations at Pedestrian Facilities", Proceedings of the 86<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C.
87. Akin, D., and **Sisiopiku, V.P.** (2007). "Modeling Interactions between Pedestrians and Turning-vehicles at Signalized Crosswalks Operating under Combined Pedestrian-Vehicle Interval", Proceedings of the 86<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C.
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25. **Sisiopiku, V.P.**, Sullivan, A., Fouad, F.H. (2010). *Capacity Building, Education, and Technology Transfer*, UAB UTC Domain 2 Final Report, Part 1.
26. **Sisiopiku, V.P.** and Abro, A.M. (2010). *Evaluation of a Pedestrian Scramble at the Intersection of University Blvd and 14<sup>th</sup> Street South*, Final Report to the University of Alabama at Birmingham.
27. Sullivan A., and **Sisiopiku, V.P.** (2010) *Emergency Dispatchers' Survey*, UAB UTC Domain 2 Final Report, Part 3.
28. Anderson, M., **Sisiopiku, V.P.**, and Lou, Y. (2010). *Seminar and TRB Conference Attendance: Year 7*, Final Report to the University Transportation Center for Alabama.
29. **Sisiopiku, V.P.**, Sullivan, A., Abro, A.M., Shinouda, M., Mouskos, K., and Barrett, C. (2010). *Development of a Dynamic Traffic Assignment Model to Evaluate Lane Reversal Plans for I-65*, Final Report to the Alabama Department of Transportation and the University Transportation Center for Alabama.
30. **Sisiopiku, V.P.** (2010). *Pedestrian Study at University Blvd and 14th St S*, Final Report to the University of Alabama at Birmingham.
31. Sullivan, A., **Sisiopiku, V.P.**, and Surhabi, S.R. (2009). *Impacts of Signal System Timings on Rain Related Congestion*, Final Report to the University Transportation Center for Alabama.
32. Anderson, M., Turner, D., and **Sisiopiku, V.P.** (2009). *Seminar and TRB Conference Attendance: Year 6*, Final Report to the University Transportation Center for Alabama.
33. **Sisiopiku, V.P.**, Sullivan, A., Cavusoglu, O., Sikder, S., Mouskos, K., and Barrett, C. (2009). *Managed Lanes: Current Status and Future Opportunities*, Final Report to the University Transportation Center for Alabama.
34. **Sisiopiku, V.P.**, Sullivan, A., Fadel, G., and Sikder, S. (2009). *Implementing Active Traffic Management Strategies in the U.S.*, Final Report to the University Transportation Center for Alabama.
35. Jones S.L., Turner, D., Wang, L, **Sisiopiku, V.P.**, Anderson, M., Berryman R., and Acharya, A. (2009). *Traffic Signal Systems on Oversaturated Arterials*, Final Report to the University Transportation Center for Alabama.
36. **Sisiopiku, V.P.** (2008). *Enhancing Research and Training Opportunities in Transportation Engineering*, Final Report to the Office of Associate Provost for Faculty Development and Faculty Affairs, University of Alabama at Birmingham.
37. **Sisiopiku, V.P.** and Chemmannur, J. (2008). *Study of the Impacts from One- to Two-Way Street Conversion*, Final Report to the UAB ADVANCE Program of the Office for the Advancement of Women in Science and Engineering.

38. Anderson, M., Turner, D., and **Sisiopiku, V.P.** (2008). *Seminar and TRB Conference Attendance: Year 5*, Final Report to the University Transportation Center for Alabama.
39. Fouad, F. H, Peters, R.W., **Sisiopiku, V.P.**, and Sullivan, A.J. (2007). "Global Assessment of Hydrogen Technologies: Promoting a Southeast Hydrogen Consortium". Report to the Department of Energy, Task 6.
40. Fouad, F. H, Peters, R.W., **Sisiopiku, V.P.**, and Sullivan, A.J. (2007). "Global Assessment of Hydrogen Technologies: Use of Fuel Cell Technology in Electric Power Generation". Report to the Department of Energy, Task 5.
41. Fouad, F. H, Peters, R.W., **Sisiopiku, V.P.**, and Sullivan, A.J. (2007). "Global Assessment of Hydrogen Technologies: Economic, Energy, and Environmental Analysis of Hydrogen Production and Delivery Options in Select Alabama Markets: Preliminary Case Studies". Report to the Department of Energy, Tasks 3 & 4.
42. Fouad, F. H, Peters, R.W., **Sisiopiku, V.P.**, and Sullivan, A.J. (2007). "Global Assessment of Hydrogen Technologies: Comparison of Performance and Emissions from Near-Term Hydrogen Fueled Light Duty Vehicles". Report to the Department of Energy, Task 2.
43. **Sisiopiku, V.P.**, Rousseau, A., Fouad, F. H, Peters, R.W., and Sullivan, A.J. (2007). "Global Assessment of Hydrogen Technologies: Technology Evaluation of Hydrogen Light Duty Vehicles". Report to the Department of Energy, Task 1.
44. **Sisiopiku, V.P.** (2007). *Transit Systems Security: Planning, Design, and Institutional Issues*, Final Report to the UAB ADVANCE Program of the Office for the Advancement of Women in Science and Engineering.
45. **Sisiopiku, V.P.**, Abro, A.M., Mouskos, K., Parker, N., and Barrett, C. (2007). *Dynamic Traffic Assignment Applications to Transit*, Final Report to the Federal Transit Administration and the Urban Serving Universities Program.
46. **Sisiopiku, V.P.**, Li, X., Abro, A.M., and Peters, R.W. (2007). *Transportation Facilities Management under Emergencies*, Final Report to the University Transportation Center for Alabama.
47. Anderson, M., Berryman, R., Jones, S.L., and **Sisiopiku, V.P.** (2007). *Review of Urban Transit Systems in Alabama*, Final Report to the University Transportation Center for Alabama.
48. Anderson, M., Turner, D., and **Sisiopiku, V.P.** (2007). *Seminar and TRB Conference Attendance: Year 4*, Final Report to the University Transportation Center for Alabama.
49. **Sisiopiku, V.P.** (2006). *Dynamic Traffic Assignment Options and Opportunities*, Final Report to the UAB ADVANCE Program of the Office for the Advancement of Women in Science and Engineering.
50. **Sisiopiku, V.P.**, Waid J., Rizk, T., McLeod, R., and Robins, W. (2006). *Alternate Financing Sources for Alabama Highways*, Technical Report to the University Transportation Center for Alabama.
51. Anderson, M., Turner, D., and **Sisiopiku, V.P.** (2006). *Seminar and TRB Conference Attendance: Year 3*, Final Report to the University Transportation Center for Alabama.
52. Jones, S.L, Sullivan, A.J., Shinde, S., and **Sisiopiku, V.P.** (2006). *Statewide Traffic Signal Design and Timing Manual*, Technical Report to the Alabama Department of Transportation.
53. **Sisiopiku, V.P.** (2005). *Design and Safety of Modern Roundabouts*, Final Report to the UAB ADVANCE Program of the Office for the Advancement of Women in Science and Engineering.

54. **Sisiopiku, V.P.** (2005). *Exploration of Advanced Technologies for Enhancing Pedestrian Safety*, Final Report to the Graduate School, the University of Alabama at Birmingham.
55. **Sisiopiku, V.P.**, Das, A., and Sullivan, A. (2005). *Applications of Freeway Ramp Metering in Alabama*, Technical Report to the University Transportation Center for Alabama.
56. Anderson, M., Turner, D., and **Sisiopiku, V.P.** (2005). *Student Seminar and TRB Conference Attendance II*, Final Report to the University Transportation Center for Alabama.
57. **Sisiopiku, V.P.**, Jones, S., Sullivan, A., Patharkar, S., and Tang, X. (2004). *Regional Traffic Simulation for Emergency Preparedness*, Technical Report to the University Transportation Center for Alabama.
58. Anderson, M., Lindley, J., and **Sisiopiku, V.P.** (2004). *Student Seminar and TRB Conference Attendance*, Final Report to the University Transportation Center for Alabama.
59. **Sisiopiku, V.P.** (2003). *Access Management Training*, Technical Report to the University Transportation Center for Alabama.
60. **Sisiopiku, V.P.** (2002). *Promoting Walkable Communities*, Final Report to the Michigan Department of Community Health.
61. Wilkerson, R. and **Sisiopiku, V.P.** (2002). *Building an Active Community Environment*, Final Report to the Jackson Community Foundation.
62. **Sisiopiku, V.P.**, Elwart, J., and Zhang, X. (2001). *Red Light Traffic Camera Technology, User Manual*.
63. **Sisiopiku, V.P.**, Cruzado, I., and Morales, H. (2000). *Parking on the State Trunkline System*, Technical Report to the Michigan Department of Transportation.
64. Lyles, R.W., and **Sisiopiku, V.P.** (1999). *An Evaluation of Speed Control Techniques in Work Zones*, Technical Report to the Michigan Department of Transportation.
65. **Sisiopiku, V.P.**, and Akin, D. (1999). *Grand River Avenue (M-43) Pedestrian Study*, Technical Report to the Michigan Department of Transportation.
66. Taylor, W.C., **Sisiopiku, V.P.**, Abbasi, M., Saif, M., and Wang, Y. (1999) *Evaluation of the ATMS Deployment in Southeastern Michigan*.
67. **Sisiopiku, V.P.**, and Oh, H. (1998). *Evaluation of the Use of Roundabouts*, Technical Report to the Office of Research and Graduate Studies, Michigan State University.
68. Lyles, R.W., **Sisiopiku, V.P.**, Abbasi, M., Akin, D., Krunz, M., and Yang, Q. (1998). *1998 Work Zone Speed Study*, Technical Report to the Michigan Department of Transportation.
69. Aylsworth-Bonzelet, L., and **Sisiopiku, V.P.** (1998). *The Operation and Design of Loops at Narrow Median Crossovers*, Technical Report to the Great Lake Center for Truck and Transit Research.
70. Lyles, R.W., **Sisiopiku, V.P.**, Akin, D., Krunz, M., and Abbasi, M. (1997). *Work Zone Speed Study*, Technical Report to the Michigan Department of Transportation.
71. **Sisiopiku, V.P.** (1996). *Congestion Analysis of Southfield Freeway*, Technical Report to the Michigan Department of Transportation.
72. Berka, S., Tarko, A., Roupail, N.M., **Sisiopiku, V.P.**, and Lee, D. (1995). *Data Fusion Algorithm for ADVANCE Release 1.5*, ADVANCE Working Paper Series #37 Report, Tasks TRF-DF-106 and TRF-DF-108.
73. **Sisiopiku, V.P.**, Roupail, N.M., and Tarko, A. (1994). *Estimating Travel Times on Freeway Segments*, ADVANCE Working Paper Series #32 Report, Task TRF-DF-101.

74. Michaels, R.M., **Sisiopiku, V.P.**, and Sriraj, P.S. (1994). *Baseline Performance Analysis of Chicago Transportation Authority (CTA) Bus Routes 3 and 79*, Technical Report to the Volpe National Transportation Systems Center, Cont. No. 45-6166.
75. **Sisiopiku, V.P.**, and Roupail, N.M. (1994). *Travel Time Estimation from Loop Detector Data for Advanced Traveler Information Systems Applications*, Technical Report to the Illinois Department of Transportation in Support of the ADVANCE Project.
76. Sisiopiku, V.P., Palacharla, P., and Nelson, P.C. (1994). *Fuzzy Reasoning Model for Converting Loop Detector Data into Travel Times*, ADVANCE Working Paper Series #38 Report.
77. **Sisiopiku, V.P.** (1993). *Arterial Link Travel Time Estimation Based on Loop Detector Output*, Technical Report to the Federal Highway Administration, No. FHWA/ DTFH61-92-P-40029.
78. Roupail, N., Tarko, A., and **Sisiopiku, V.P.** (1993). *Proposed Data Fusion for ADVANCE Release 1.5*, ADVANCE Working Paper Series #30 Report.
79. **Sisiopiku, V.P.**, and Roupail, N.M. (1993). *Exploratory Analysis of the Correlations between Arterial Link Travel Times and Detector Data from Simulation and Field Studies*, ADVANCE Working Paper Series #25 Report.
80. Roupail, N.M., and **Sisiopiku, V.P.** (1993). *Travel Time and Loop Detector Output Analysis on Dundee Road Closed-Loop Signal System*, ADVANCE Working Paper Series #24 Report.
81. **Sisiopiku, V.P.**, and Roupail, N.M. (1993). *Review of Alternative Procedures for Using Loop Detector Output to Estimate Arterial Link Travel Times*, ADVANCE Working Paper Series #23 Report.
82. Roupail, N.M., Magnuson, M., and **Sisiopiku, V.P.** (1991). *Validation of 1985 HCM Procedures for Capacity and LOS of Left Turn Lanes in Illinois*, Technical Report to the Illinois Department of Transportation, No. FHWA/IDOT/RC-012, Springfield.

## SELECTED CONFERENCE PRESENTATIONS <sup>2</sup>

1. "Congestion Monitoring in the Birmingham Region". 2017 Gulf Region Intelligent Transportation Society (GRITS) Annual Meeting, Florence, AL, 2017
2. "Requirements, Benefits and Challenges Associated with Deployment of Connected Vehicles". 2017 Gulf Region Intelligent Transportation Society (GRITS) Annual Meeting, Florence, AL, 2017
3. "Evaluation of Traffic Control Options in Work Zones", STRIDE 2017 Webinar Series: Transforming Research into Practice, Gainesville, FL, 2017
4. "Travel Patterns and Preferences of Urban University Students", 7th Annual International Conference on Urban Studies & Planning, Athens, Greece, 2017
5. "Understanding Travel Behavior and Mode Choice of Urban University Campus Employees", 58th Annual Meeting, Transportation Research Forum, Chicago, IL, 2017
6. "Performance Measurement using the National Performance Management Research Data Set", 2017 Annual Meeting of ALSITE, Columbia, South Carolina, 2017
7. "Performance Based Work Zone Scheduling in Central Alabama," 2017 Annual Meeting of ALSITE, Columbia, South Carolina, 2017, **Best Member Technical Paper Award, Runner-up.**

<sup>2</sup> Only presentations delivered by Dr. Sisiopiku and her advisees are listed here. Numerous additional oral and poster co-authored presentations delivered by colleagues or other students are omitted due to space limitations.

8. "Analysis of Student Travel Patterns and Transportation Choices within a University Campus Setting", Active Living Research Conference 2017, Clearwater Beach, FL, 2017
9. "Digital Billboards and Traffic Safety Risks", 96th Transportation Research Board Annual Meeting, Washington, D.C., 2017.
10. "Active Transportation Initiatives", Gulf States Health Policy Center (GSHPC) - Birmingham Coalition Meeting, Birmingham, AL, 2016.
11. "Time-of-day Visibility-based Pedestrian Gap Acceptance Model for Two-way Stop Controlled Crossings", World Multidisciplinary Civil Engineering, Architecture, Urban Planning Symposium – WMCAUS, Prague, 2016.
12. "Impact of Bottleneck Merge Control Strategies on Freeway Level of Service", International Symposium on Enhancing Highway Performance (ISEHP), Berlin, Germany, 2016.
13. "Analysis of Employee Commuting Patterns at the University of Alabama at Birmingham Campus", 2016 UTC Conference for the Southeastern Region, Knoxville, TN, 2016.
14. "Green/Sustainability Design and Rating Systems: Development of an Educational Module", 2016 UTC Conference for the Southeastern Region, Knoxville, TN, 2016.
15. "Analysis of Crash Causes, Costs, and Countermeasures in Alabama Work Zones", 2015 Road Safety and Simulation International Conference, Orlando, FL, 2015.
16. "Introducing Sustainability Design and Assessment Methods into the Civil Engineering Curriculum", 122nd Annual Conference & Exposition of the American Society of Engineering Education (ASEE), Seattle, WA, 2015.
17. "Merge Control Strategies at Interstate Work Zones: Review of Practice", 2015 Southern District ITE Annual Meeting, Biloxi, MS, 2015.
18. "Modeling Pedestrian Gap Acceptance at Mid-block Crossings in the Southeast", 2015 Southern District ITE Annual Meeting, Biloxi, MS, 2015.
19. "Investigating Safety Aspects of Digital Advertising Billboards in the Southeastern Region", 2015 UTC Conference for the Southeastern Region, Birmingham, AL, 2015.
20. "Comparison of Freight Demand Forecasting Models", 2015 UTC Conference for the Southeastern Region, Birmingham, AL, 2015.
21. "Visibility Sensitive Pedestrian Gap Acceptance Models for Two Way Stop Controlled Sections", 2015 UTC Conference for the Southeastern Region, Birmingham, AL, 2015.
22. "Comparison between Trip-Based and Tour-Based Truck Travel Demand Forecasting Models in Birmingham, AL", 56<sup>th</sup> Annual Transportation Research Forum, Atlanta, GA, 2015.
23. "Transportation Research at UAB", ALSITE Meeting, Montevallo, AL, 2015.
24. "Investigation of Potential Relationship between Crash Occurrence and Presence of Digital Advertising Billboards in Alabama and Florida", 94<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C., 2015.
25. "A Probit-based Pedestrian Gap Acceptance Model for Mid-Block Crossing Locations", 94<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C., 2015.
26. "Perceived and Real Impacts of Digital Advertising Billboards on Driving Performance", 5<sup>th</sup> International Conference on Applied Human Factors and Ergonomics (AHFE 2014), Kraków, Poland, 2014.

27. "Use of GIS Spatial Analysis to Identify Food Deserts in the State of Alabama", 4<sup>th</sup> Annual International Conference on Urban Studies and Planning, Athens, Greece, 2014.
28. "Traffic Safety Impacts of Digital Roadside Advertising in Alabama and Florida", 2<sup>nd</sup> Annual University Transportation Center (UTC) Conference for the Southeastern Region, Atlanta, GA, 2014.
29. "Modeling Pedestrian Gap Acceptance Behavior at Mid-Block Locations", 2<sup>nd</sup> Annual University Transportation Center (UTC) Conference for the Southeastern Region, Atlanta, GA, 2014.
30. "STRIDE K-12 Transportation Workforce Development - A Collaborative Effort", 2<sup>nd</sup> Annual University Transportation Center (UTC) Conference for the Southeastern Region, Atlanta, GA, 2014.
31. "Validation of a Data Acquisition Device in the Senior and Adolescent Naturalistic Driving Study (SANDS)", 93<sup>rd</sup> Annual Meeting of the Transportation Research Board, Washington, DC, 2014.
32. "Sustainability Design and Rating Systems for Transportation: A Synthesis of Practice". 93<sup>rd</sup> Annual Meeting of the Transportation Research Board, Washington, DC, 2014.
33. "Roadside Advertising and Traffic Safety", 3<sup>rd</sup> Annual International Conference on Civil Engineering, Athens, Greece, 2013.
34. "Modeling Pedestrian Behavior at Crossing Locations", SDITE 2013 Annual Meeting, Charlotte, NC, 2013.
35. "Impacts of Transit Integration in a Complete Streets Context", SDITE 2013 Annual Meeting, Charlotte, NC, 2013.
36. "Impacts of Digital Advertising Billboards on Traffic Safety", UTC Conference for the Southeastern Region, Orlando, FL, 2013.
37. "UAB Transportation Engineering Workforce Development Programs", UTC Conference for the Southeastern Region, Orlando, FL, 2013.
38. "Quantifying the Costs of School Transportation: Identifying Cost Items", 92<sup>nd</sup> Annual Meeting of the Transportation Research Board, Washington, DC, January, 2013.
39. "Green Design and Rating Systems for Neighborhood Development", 92<sup>nd</sup> Annual Meeting of the Transportation Research Board, Washington, DC, January, 2013.
40. "Roadside Advertising and Traffic Safety", CATSS-UTC Symposium, Orlando, FL, 2013.
41. "Pedestrian Scramble: Feasibility Analysis". AlaSim 2012 Conference, Huntsville, AL, 2012.
42. "Traffic Micro-Simulation Modeling for an Urban Chemical Disaster". AlaSim 2012 Conference, Huntsville, AL, 2012.
43. "Motorcycle Safety in the State of Alabama". SDITE/GLDITE Joint Annual Meeting, Lexington, KY, 2012.
44. "Screening Candidate Corridors for Managed Lane Implementation: Methodology and Findings from an Alabama Case Study". SDITE/GLDITE Joint Annual Meeting, Lexington, KY, 2012.
45. "Application of Transit Oriented Development in a Small Community". SDITE/GLDITE Joint Annual Meeting, Lexington, KY, 2012.
46. "Transit Evacuation of Carless Populations due to Flooding - A Birmingham, Alabama Case Study". 2012 National Evacuation Conference, New Orleans, LA, 2012.
47. "The Relationship of Internet Safety Information Seeking on Risky Riding Behavior and Use of Protective Gear among an Online Motorcycle Community", 91<sup>st</sup> Transportation Research Board Annual Meeting, Washington, D.C., 2012.

48. "Establishing the Connection between Livable Community Assets and Public Health", 10<sup>th</sup> International Conference on Health Economics, Management and Policy, Athens, Greece, 2011.
49. "Emergency Response and Traffic Congestion: The Dispatchers Perspective", Conference on Disaster Management and Human Health: Reducing Risk, Improving Outcomes, Orlando, FL, 2011.
50. "Assessment of a University Campus Intersection from the Pedestrian Perspective", SDITE 2011 Annual Meeting, Lafayette, LA, 2011.
51. "Can Vehicle Mileage Travelled Fee Replace Traditional Gas Tax?" 52<sup>nd</sup> Annual Transportation Research Forum, Long Beach, CA, 2011.
52. "Modeling Incidents and Emergencies in the Birmingham Area Using VISTA", Transportation Research Board 90<sup>th</sup> Annual Meeting, ANB10 (4) – TRB Subcommittee on Emergency Evacuation, Washington, D.C., 2011.
53. "A Holistic Approach to Incident Management", Invited presentation to the INFORMS 2010 Southern Regional Conference, Huntsville, AL, 2010.
54. "High Occupancy Vehicle Lane Performance Assessment through Operational, Environmental Impacts, and Cost-Benefit Analyses", EAIA 2010 Conference, Orlando, FL, 2010.
55. "Conversion of One- to Two-Way Streets in Birmingham Downtown: A Feasibility Study", 2010 SimAUD Conference, Orlando, FL, 2010.
56. "Contra Flow Operations for Hurricane Evacuation: Lessons Learned from an Alabama Case Study", National Evacuation Conference, New Orleans, LA, 2010.
57. "Emergency Response and Traffic Congestion: Dispatchers' Perspectives", National Evacuation Conference, New Orleans, LA, 2010.
58. "Analysis of Impacts from Temporary Left- and Right- Shoulder Lane Use as an Active Traffic Management Strategy", 2009 Huntsville Simulation Conference, Huntsville, AL, 2009.
59. "Feasibility of Street Conversions in the Birmingham City Center", 2009 SDITE Annual Meeting, Birmingham, AL, 2009.
60. "Active Traffic Management Options", 2009 SDITE Annual Meeting, Birmingham, AL, 2009.
61. "Active Traffic Management Opportunities and Challenges for Implementation", 2009 ITE Technical Conference and Exhibit, Phoenix, AZ, 2009.
62. "Traffic Management Strategies for Hurricane Evacuations in the Southeastern United States", 2008 TSITE/ALSITE Joint Fall Meeting, Chattanooga, TN, 2008.
63. "Operational Impacts from Managed Lanes Implementation in Birmingham", 2008 ITE Annual Meeting and Exhibit, Anaheim, CA, 2008.
64. "Modeling Traffic Incidents in VISTA". Traffic Simulation Workshop, Graz, Austria, 2008.
65. "Lane Reversal Operations for Hurricane Evacuations", 10<sup>th</sup> International Conference on Application of Advanced Technologies in Transportation (AATT), Athens, GR, 2008.
66. "The U.S. Experience with New Generation Weigh-In-Motion Systems", 10<sup>th</sup> International Conference on Application of Advanced Technologies in Transportation (AATT), Athens, GR, 2008.
67. "Evaluation of Transit Operations Using a Regional Dynamic Traffic Assignment and Simulation Approach", 10<sup>th</sup> International Conference on Application of Advanced Technologies in Transportation (AATT), Athens, GR, 2008.



68. "Downtown Birmingham One- to Two-Way Street Conversion Pilot Study", Transport Chicago 2008 Conference, Chicago, IL, 2008.
69. "Modeling of Oversaturated Conditions on Arterial Networks", Transport Chicago 2008 Conference, Chicago, IL, 2008.
70. "Development of a Dynamic Traffic Assignment Model to Evaluate Lane Reversal Plans for Hurricane Evacuations on I-65". 2008 SDITE Annual Meeting, Charleston, S.C., 2008.
71. "Conversion of One-way Street Pairs to Two-way Operations in Downtown Birmingham". 2008 SDITE Annual Meeting, Charleston, S.C., 2008.
72. "The University of Alabama at Birmingham School of Engineering Projects", ALSITE Spring 2008 Meeting, Birmingham, AL, 2008.
73. "Implementation of Managed Lanes in Birmingham, Alabama". 2007 Huntsville Simulation Conference, Huntsville, AL, 2007.
74. "Emissions Associated with Various Driving Cycles for Light-Duty Vehicles", 2007 Huntsville Simulation Conference, Huntsville, AL, 2007.
75. "Comparison of Traffic Simulation Delay to Actual Delay". 2007 Huntsville Simulation Conference, Huntsville, AL, 2007.
76. "Bridge Weigh-in-Motion Application in Alabama", Research Issues in Freight Transportation Conference, Washington, D.C., 2007.
77. "Traditional and Innovative Approaches for Financing Highways", 66<sup>th</sup> Annual Meeting of the Southeastern Association of State Highway and Transportation Officials, Huntsville, AL, 2007.
78. "Transit System Operations under Emergency Conditions". Transport Chicago 2007 Conference, Chicago, IL, 2007.
79. "Implementation of Transit Capacity and Quality of Service Manual Procedures for Transit Systems Evaluation in Alabama". Transport Chicago 2007 Conference, Chicago, IL, 2007.
80. "Dynamic Traffic Assignment and the VISTA Model". Alabama Chapter of the American Planning Associations (APA) Annual Conference, Auburn, AL, 2007.
81. "New Technologies for Engineering Tomorrow's Transportation Infrastructure", Society of Women Engineers 2007 Region D Conference, Tuscaloosa, AL, 2007.
82. "Level of Service Methodologies for Sidewalk Assessment", Alabama Section Institute of Transportation Engineers Spring Meeting, Montgomery, AL, 2007.
83. "The Potential of Vehicle Mileage Road User Fee as Alternate Financing Option for State Highways", 86<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C., 2007.
84. "Pedestrian Crossing Compliance Characteristics At-grade Signalized Crosswalks: Case study in a Downtown-university Campus Environment", 86<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C., 2007.
85. "Application of Level of Service Methods for the Evaluation of Operations at Pedestrian Facilities", 86<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C., 2007.
86. "Alternate Financing Sources for Alabama Highways: The Heavy-Truck Road User Fee", 86<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C., 2007.
87. "Transit Operations in Birmingham, Alabama and the Potential Impact of Signal Priority Implementation", UTCA Research Symposium, Tuscaloosa, AL, 2006.

88. "Development of a Dynamic Traffic Assignment Model to Evaluate Lane Reversal Plans for I-65", UTCA Research Symposium, Tuscaloosa, AL, 2006.
89. "Assessment of Transit Operations in Birmingham, Alabama". Huntsville Simulation Conference, Huntsville, AL, 2006.
90. "Available Options for Financing Highways", Institute of Transportation Engineers, Alabama and Deep South Section Annual Meeting 2006, Gulf Shores, AL, 2006.
91. "Dynamic Traffic Assignment Applications for Incident Management". 1<sup>st</sup> International Symposium of Freeway and Tollway Operations, Athens, Greece, 2006.
92. "Analysis of Benefits and Costs from Ramp Metering Implementation". 1<sup>st</sup> International Symposium of Freeway and Tollway Operations, Athens, Greece, 2006.
93. "Overview of Dynamic Traffic Assignment Options", Transportation Simulation Symposium, Spring Simulation Multiconference 2006, Huntsville, AL, 2006.
94. "Comparison of Level of Service Methodologies for Pedestrian Sidewalks", 85<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C., 2006.
95. "An Assessment of Vehicular Energy Use by Hydrogen and Gasoline Powertrains for a Mid-Size Passenger Car", 85<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C., 2006.
96. "Comparative Analysis of Roundabouts and Conventional Intersection Designs", 82<sup>nd</sup> Annual Meeting of the Alabama Academy of Science, Birmingham, AL, 2005.
97. "Advanced Technology Options for Enhancing Pedestrian Safety", 53<sup>rd</sup> Annual Meeting of the Institute of Transportation Engineers District 5, Savannah, GA, 2005.
98. "Modern Roundabouts: Design and Safety Considerations", 2005 ITE Annual Meeting and Exhibit, Las Vegas, NV, 2005.
99. "Assessment of Ramp Metering Strategies", 2<sup>nd</sup> Annual UTCA Transportation Research Symposium, Birmingham, AL, 2004.
100. "Integration of Urban Transit Modes for Creating a Sustainable Transportation System in Large Cities of Developing Countries". WCTR 2004 Conference, Istanbul, Turkey, 2004.
101. "A Statistical Approach in Modeling Interactions between Pedestrians and Turning-Vehicles at Signalized Crosswalks", WCTR 2004 Conference, Istanbul, Turkey, 2004.
102. "Regional Simulation Model for Emergency Preparedness". WCTR 2004 Conference, Istanbul, Turkey, 2004.
103. "Access Management Techniques and Issues". Transport Chicago 2004 Conference, Chicago, IL, 2004.
104. "Traffic Simulation Modeling for Emergency Preparedness Planning", 2004 ITS Safety and Security Conference, Miami, FL, 2004.
105. "Intelligent Transportation Systems Applications for Increased Pedestrian Safety", 2004 ITS Safety and Security Conference, Miami, FL, 2004.
106. "Access Management Training", 1<sup>st</sup> Annual UTCA Transportation Research Symposium, Birmingham, AL, 2003.
107. "The Role of Intelligent Transportation Systems in Addressing Homeland Security Challenges", 2003 Society of Women Engineers National Conference, Birmingham, AL, 2003.

108. "Engineering Methods for Designing Safe Pedestrians Facilities", 15<sup>th</sup> Workshop of the International Cooperation on Theories and Concepts in Traffic Safety (ICTCT), Vancouver, Canada, 2003.
109. "Estimating Origin-Destination Matrices Using Location Data from Cell Phones", 49<sup>th</sup> Annual North American Meeting of the Regional Science Association International, San Juan, PR, 2002.
110. "Pedestrian Level of Service and Quality of Operations Assessment Methods", 81<sup>st</sup> Transportation Research Board Annual Meeting, Washington, D.C., 2002.
111. "On-Street Parking on State Roads", ITE International Conference, Chicago, IL, 2001.
112. "Application of Intelligent Transportation Systems for Winter Maintenance", Transportation Research Board Annual Meeting, Washington, D.C., 2001.
113. "A Modified ALINEA Ramp Metering Model", 80<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C., 2001.
114. "Assessment of Rural ITS Wireless Communications Solutions", 80<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C., 2001.
115. "Estimating Crossing Compliance at Pedestrian Crosswalks", 70<sup>th</sup> ITE Annual Meeting, Nashville, TN, 2000.
116. "Creating Walkable Communities: The Michigan Example", 70<sup>th</sup> ITE Annual Meeting, Nashville, TN, 2000.
117. "Study of Pedestrians' Perceptions and Preferences", 2000 ITE International Conference, Irvine, CA, 2000.
118. "Study of the Impact of Police Enforcement on Motorists Speeds", 78<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C., 1999.
119. "Assessment of Advanced Rural Transportation Systems Wireless Communications Requirements", 6<sup>th</sup> World Congress on Intelligent Transport Systems, Toronto, Canada, 1999.
120. "Analysis of Adaptive Signal Control Strategies in Urban Corridors", 6<sup>th</sup> World Congress on Intelligent Transport Systems, Toronto, Canada, 1999.
121. "Review and Evaluation of Incident Detection Methods", 5<sup>th</sup> World Congress on Intelligent Transport Systems, Seoul, Korea, 1998.
122. "Communication Issues in Commercial Vehicle Operations", 31<sup>st</sup> International Symposium on Automotive Technology and Automation (ISATA), Dusseldorf, Germany, 1998.
123. "Congestion Analysis of Southfield Freeway -- A Case Study", Traffic Congestion and Traffic Safety in the 21<sup>st</sup> Century ASCE Conference, Chicago, Illinois, 1997.
124. "Intermodalism Issues in the Freight Transportation Industry", 8<sup>th</sup> IFAC Symposium on Transportation Systems '97, Chania, Greece, 1997.
125. "School Bus Safety at Railroad Crossings", 1996 Michigan Traffic Safety Summit, Lansing, Michigan, 1996.
126. "Performance Assessment of FRESIM Model in Simulating Ramp Metering Schemes", 66<sup>th</sup> Annual Meeting of the Institute of Transportation Engineers, Minneapolis, Minnesota, 1996.
127. "Intelligent Transportation Systems Initiatives for Commercial Vehicle Safety Enhancement in the U.S.A.", 29<sup>th</sup> International Symposium on Automotive Technology and Automation, Florence, Italy, 1996.

128. "Analysis of the Correlation between Arterial Travel Time and Detector Data from Simulation and Field Studies", 74<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C., 1995.
129. "Towards the Use of Detector Output for Arterial Link Travel Time Estimation: A Literature Review", 74<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C., 1995.

## HONORS AND AWARDS

- Winner of the **2017 Best Member Technical Paper Runner-up Award**, Southern District of Institute of Transportation Engineers (SDITE), March 2017.
- Selected as **2015 ALSITE Transportation Engineering Educator** nominee for the SDITE Excellence in Transportation Engineering Education Award, January 2016.
- Named **Fellow** of the Institute of Transportation Engineers, September 2014.
- Recipient of 2013 **Best Paper Merit Certificate**, 2013 International Conference on Connected Vehicles and Expo (ICCVE/IEEE), December 2013.
- Winner of the **Best Research Paper Award**, Southern District of Institute of Transportation Engineers (SDITE), June 2012.
- Winner of the 2010 **Dean's Award for Excellence in Mentorship**, UAB Graduate School, April 2010.
- Winner of the UAB **Presidential Award for Excellence in Teaching**, April 2007.
- Recipient of the NSF-sponsored UAB ADVANCE **Senior Research Award**, May 2007.
- Recipient of the NSF-sponsored UAB ADVANCE **Scholar Award**, May 2006.
- Recipient of the NSF-sponsored UAB ADVANCE **Faculty Research Award**, December 2005.
- Winner of the **Best Sponsored Technical Paper Award**, Southern District of Institute of Transportation Engineers (SDITE), April 2005.
- Faculty member of **Tau Beta Pi**, the Engineering Honors Society, inducted April 2005.
- Recipient of the NSF-sponsored UAB ADVANCE **Junior Faculty Research Award**, September 2004.
- Recipient of **Acknowledgement Award**, NIH/NIDDC-Charles R. Drew University, August 2004.
- Faculty member of the **Chi Epsilon**, the Civil Engineering Honors Society, inducted April 2004.
- Recipient of the **Dwight David Eisenhower Faculty Fellowship Award**, Federal Highway Administration (FHWA), Washington, D.C., 2003, 2002, and 1995.
- Featured in Who's Who in America; Who's Who in Science and Engineering; Who's Who in the World; Who's Who of American Women; Who's Who in Engineering Education (multiple listings)
- Winner of the 1993-94 **Illinois Section ITE Technical Paper Award**; Illinois Section Institute of Transportation Engineers, Chicago, Illinois, April 1994.
- Winner of the 1992 **Grant Show Memorial Scholarship**; Illinois Association of Highway Engineers, Palatine, Illinois, June 1992.
- Recipient of a 1992 **Federal Highway Administration Grant for Research Fellowship**, McLean, Virginia, May 1992.
- Winner of the **Outstanding Student Paper National Award**, Institute of Transportation Engineers, Washington D.C., September 1991.
- Winner of the **ITE District IV Student Paper Award**; North Central Section Institute of Transportation Engineers, Minneapolis, Minnesota, June 1991.

- Recipient of the Helen Overly Scholarship; **Women's Transportation Seminar National Scholarship**, Seattle, Washington, April 1991.
- Winner of the **Women's Transportation Seminar Scholarship**, Greater Chicago Chapter, Chicago, Illinois, March 1991.

## TEACHING EXPERIENCE

### Course Developer and Instructor for:

- **Transportation Engineering**, Undergraduate, Multiple Offerings
- **Highway Operations**, Undergraduate, Multiple Offerings
- **Traffic Flow Theory**, Graduate, Multiple Offerings
- **Non-Motorized Transportation Design and Planning**, Graduate, Multiple Offerings
- **Highway and Traffic Safety**, Graduate, Multiple Offerings
- **Simulation Models for Transportation Applications**, Graduate, Multiple Offerings
- **Intelligent Transportation Systems**, Graduate, Multiple Offerings
- **Public Transportation Systems**, Graduate, Multiple Offerings
- **Transportation Engineering Studies**, Undergraduate/Graduate (Developed)
- **Sustainability Design and Rating Systems**, Undergraduate/Graduate, Fall 2014, team-taught with R.W. Peters.
- **Civil Engineering Analysis I**, Undergraduate, Fall 2016, team-taught with R.W. Peters.

### Facilitator for:

#### **Alabama in Greece Study Away, Undergraduate**

A 3-week long study abroad program in collaboration with the University of Alabama (UA). Summers of 2012 and 2010.

#### **Transportation Engineering Seminar, Graduate**

Current issues and research developments in transportation engineering, traffic operations, transportation planning and systems analysis.

#### **Distance Learning (IITS) Courses in Transportation, Graduate**

Highway Safety, Transportation Systems Analysis, Traffic Engineering Operations, Geometric Design of Roadways, Urban and Transportation Planning, Planning and Design of Airport Facilities, Pavement Design and Construction, Pavement Rehabilitation, Traffic Safety and Security, Traffic Systems Analysis, Urban Transportation Modeling and Traffic Signal Design.

### Independent Studies Directed:

- Islam, Md Ahsanul (MS Student). "Requirements and Challenges Associated with Deployment of Connected Vehicles". Spring 2017 (UAB)
- Salman, Furat (PhD Student). "Shared Mobility: Current Status and Future Prospects". Spring 2017 (UAB).
- Nimje, Sonam (MS Student). "Planning and Design for Non-Motorized Transportation near School Sites". Spring 2016 (UAB).

- Alberty, Ivan (MS Student). "Bicycle Parking". Summer 2015 (UAB).
- Sontakke, Vinay (MS Student). "Ride-Sharing: Options, Benefits, Opportunities, and Barriers". Summer 2015 (UAB).
- Mohammed Eltaher, Ismail (MS Student). "Work Zone Safety". Summer 2014 (UAB).
- Barbour, Natalia (MS Student). "Transportation Workforce Development". Spring 2014 (UAB).
- Doustmohammadi, Ehsan (PhD Student). "Freight Transportation Modeling: Opportunities and Challenges". Summer 2013 (UAB).
- Ramadan, Ossama (PhD Student). "The Role of Crash Modification Factors in Safety Management". Summer 2013 (UAB).
- Hasbun, Jose (MS Student). "LEED Green Building and Neighborhood Development Ranking Methodologies", Summer 2013 (UAB).
- Terdalkar, Sunil (MS Student). "Naturalistic Study of Driving Behavior". Spring 2013 (UAB)
- Pezzillo, Katherine (MS Student). "Intelligent Transportation Systems". Spring 2012 (UAB).
- Terdalkar, Sunil (MS Student). "Advanced Transportation Engineering and Design". Spring 2012 (UAB).
- Robinson, Tashundra (MS Student). "Evaluation of Highway Crash Trends in Alabama Involving the Transport of Hazardous Materials". Summer 2011 (UAB).
- Zhong, Cheng (Ph.D. Student). "Creative Strategies for Financing Transportation Projects". Summer 2010 (UAB).
- Dondapati, Mary Catherine (Ph.D. Student). "Evacuation Management and ITS in Medium Sized Urban Communities", Spring 2010 (UAB).
- Chitikesi, Santosh (M.S. Student). "Methodologies for Quantifying Recurrent and Non-Recurrent Congestion", Summer 2009 (UAB).
- Cavusoglu, Ozge (Ph.D. Student). "Dynamic Traffic Assignment: Background and Applications", Fall 2008 (UAB).
- Bagighni, Suhil (Ph.D. Student). "Intelligent Transportation Systems: The Present and the Future", Spring 2008 (UAB).
- Chemmannur, Jugnu (M.S. Student). "Comparison of Traditional and Emerging Vehicle Weighing Systems", Summer 2007 (UAB).
- Cavusoglu, Ozge (M.S. Student). "Transportation Engineering", Summer 2007 (UAB).
- Kumar, Santosh (M.S. Student). "Benefits and Limitations from the Deployment of Dedicated Truck Lanes", Fall 2006 (UAB).
- Waid, Johnnie (Ph.D. Student). "Evaluation of Evacuation Strategies", Fall 2006 (UAB).
- Chittoor, Asha (M.S. Student). "Pedestrian Level of Service Analysis at Intersections", Summer 2006 (UAB).
- Anderson, Walter T. (Ph.D. Student). "Grade-separated pedestrian crossings", Spring 2006 (UAB).
- Andurlekar, Apurva (M.S. Student). "Freeway Bottleneck Identification, Analysis, and Removal", Fall 2005 (UAB).
- Anderson, Walter T. (Ph.D. Student). "An Analysis of Disaster Preparedness, Planning, and Transportation Evacuation for Hurricanes", Fall 2005 (UAB).

- Li, Xuping (M.S. Student). "Fuel Cell Propulsion Systems for Transit Vehicles", Summer 2005 (UAB).
- Patil, Vishal (M.S. Student). "Emerging Traffic Control Devices in MUTCD 2003 for Improvement of Pedestrian Safety", Summer 2004 (UAB).
- Byrd, Jonathan (M.S. Student). "Modeling Urban Interchanges", Spring 2004 (UAB).
- Jasti, Sreenu (M.S. Student). "ITS Options for Security Preparedness in Public Transportation Systems", Spring 2003 (UAB).
- Kholodova, Nadia (M.S. Student). "Intelligent Transportation Systems", Fall 2000 (MSU).
- Morales, Heather (B.S. Student). "Crash Prediction Models", Summer 2000 (MSU).
- Haider, Farhan (M.S. Student). "Protective Devices for Motorcycle Users", Fall 1998 (MSU).
- Ghumman, Haseeb (M.S. Student). "The Analysis of Signalized Intersections on a Major Arterial for Both Existing Conditions and Future Growth Impacts", Fall 1998 (MSU).
- Krunz, Ma'in (M.S. Student). "Traffic Impact Studies", Summer 1998 (MSU). Yang, Qingyan (M.S. Student). "Route Selection Algorithms for Dynamic Route Guidance Systems", Fall 1998 (MSU).
- Krunz, Ma'in (M.S. Student). "Work Zone Speed Study", Summer 1998 (MSU).
- Tao, Ruihua (Ph.D. Student). "Intermodal Transportation Safety", Summer 1998 (MSU).
- Oh, Heungun (Ph.D. Student). "A Study on the Operational Characteristics of Roundabouts", Fall 1997 (MSU).
- Park, Jong Suk (M.S. Student). "Traffic and Transportation Planning Models Applications", Fall 1997 (MSU).
- Patel, Hitesh (M.S. Student). "Effect of Police Presence on Freeway Speed Choices", Summer 1996 (MSU).
- Abbasi, Mousa (Ph.D. Student). "Roundabouts: a Literature Review", Summer 1995 (MSU).
- Aylsworth, Laura (Ph.D. Student). "Modeling Changeable Message Signs with FRESIM Model", Spring 1995 (MSU).
- Park, Jong Suk (M.S. Student). "Investigating the Potential Application of Catastrophe Theory to Traffic Flow Theory", Fall 1995 (MSU).

## GRADUATE ADVISING

### Post-Doctoral Researchers and Visiting Scholars. Mentor Responsibilities

1. **Zhi Li**, Ph.D., October 2017 to present.
2. **Ossama Ramadan**, Ph.D., May 2016 to present.
3. **Ozge Cavusoglu**, Ph.D., August 2014 to October 2015.
4. **Saiyid Sikder**, Ph.D., October 2008 to September 2009.

### Ph.D. Advisees Graduated. Chairperson Responsibilities

1. **Ehsan Doustmohammadi**, Fall 2016. UAB.  
PhD Dissertation: Forecasting Regional Truck Freight Movements Using Tour-Based Approach.

2. **Ossama Ramadan**, Spring 2016. UAB.  
PhD Dissertation: Evaluation of Merge Control Strategies for Interstate Work Zones and Their Impacts on Construction Planning and Scheduling Decisions.
3. **Shrikanth Mamidipalli**, Fall 2015. UAB.  
PhD Dissertation: Robust Discrete Choice Models for Pedestrian-Vehicle Interactions at Unsignalized Locations
4. **Ozge Cavusoglu**, Fall 2011, UAB.  
PhD Dissertation: Modeling Incident and Emergency Management from a Regional Perspective.
5. **Charles Robinson**, Fall 2006, UAB.  
Ph.D. Dissertation: Managerial Decision-Making Models and their Applicability to the Transportation Project Selection and Prioritization Process (Dr. S. Jones, Co-Advisor).
6. **Ruihua Tao**, Spring 2003, MSU.  
Ph.D. Dissertation: Speed Disturbance Absorption and Traffic Stability.
7. **Heung-Un Oh**, Spring 2000, MSU.  
Ph.D. Dissertation: Study of Freeway Merge Bottlenecks and Development of New Local Traffic Responsive Ramp Metering Strategy.
8. **Darcin Akin**, Spring 2000, MSU.  
Ph.D. Dissertation: Evaluation of Pedestrian Crosswalks in an Urban Environment.
9. **Abbasi Mousa**, Spring 1998, MSU.  
Ph.D. Dissertation: Development and Testing of a Freeway Recurring Congestion Measure.

#### M.S.C.E. Advisees Graduated. Chairperson Responsibilities

10. **Shaghayegh Rostami Hosuri**, Spring 2017 UAB  
M.S. Thesis: Congestion Quantification Using the National Performance Management Research Data Set
11. **Sonam Nimje**, Summer 2016 UAB.  
M.S. Project: School Transportation Issues.
12. **Ahmed H. Al-Sabban**, Spring 2016 UAB.  
M.S. Project: Effects of Radio Frequency Identification (RFID) Use for Improving Transportation Logistics in Support of Accelerated Construction.
13. **Ivan Alberty**, Spring 2016 UAB.  
M.S. Project: Campus Parking: Planning, Design, and Implementation Considerations.
14. **Vinay Kumar Sontakke**, Spring 2016 UAB.  
M.S. Project: Rideshare: Current Status and Future Opportunities.
15. **Mostafa Emeira**, Spring 2015 UAB.  
M.S. Project: Pedestrian Safety in the State of Alabama
16. **Md. Mozahidul Islam**, Spring 2015 UAB.  
M.S. Thesis: A Comprehensive Assessment of Possible Links between Digital Advertising Billboards and Traffic Safety.
17. **Mohammed I Eltaher Ismail**, Fall 2014 UAB.  
M.S. Project: Traffic Safety in Work Zones.



18. **Natalia Barbour**, Spring 2014 UAB.  
M.S. Project: Use of GIS Spatial Analysis to Identify Food Deserts in the State of Alabama.
19. **Jose Hasbun**, Fall 2013 UAB.  
M.S. Project: A Sustainable Approach for Congestion Reduction at Peak Hours.
20. **Imran Md. Shah**, Spring 2012 UAB.  
M.S. Thesis: Assessment of Transit Oriented Development Impacts.
21. **Walter Anderson**, Spring 2012 UAB.  
M.S. Project: Transportation Sustainability: Opportunities and Challenges.
22. **Islam Md. Saidul**, Spring 2012 UAB.  
M.S. Thesis: Travel Time Reliability under Varying Freeway Operating Conditions.
23. **Sara Alnazer**, Fall 2011 UAB.  
M.S. Thesis: Identifying Candidate Roads for Managed Lanes in Alabama.
24. **Bharat Kumar Kallem**, Fall 2011 UAB.  
M.S. Thesis: Measuring Non-Recurring Congestion in Small to Medium Sized Urban Areas.
25. **Santosh Chitikesi**, Spring 2010 UAB.  
M.S. Thesis: Assessment of Motorcycle Safety in Alabama.
26. **Sujit Rathi**, Fall 2009 UAB.  
M.S. Project: Pedestrian Quality of Service Assessment at Select Sites within an Urban University Setting.
27. **Michael Shinouda**, Summer 2009 UAB.  
M.S. Thesis: Study of Contaflow Operations for Hurricane Evacuation.
28. **Germin Fadel**, Summer 2009 UAB.  
M.S. Thesis: Active Traffic Management: A Case Study on the Use of Shoulder Lanes.
29. **Shrikanth Mamidipalli**, Spring 2009 UAB.  
M.S. Project: Development of Framework for Transportation Data Management.
30. **Jugnu Chemmannur**, Fall 2008 UAB.  
M.S. Thesis: Study of the Impacts from One- to Two-way Street Conversion.
31. **Suman R. Surabhi**, Fall 2008 UAB.  
M.S. Thesis: Traffic Responsive Signals Systems and Rain Related Congestion.
32. **Abhishek Acharya**, Summer 2008 UAB.  
M.S. Thesis: Modeling of Oversaturated Conditions in Arterial Networks.
33. **Ozge Cavusoglu**, Spring 2008 UAB.  
M.S. Thesis: Assessment of Managed Lanes Options.
34. **Amar S. Chaukar**, Fall 2007 UAB.  
M.S. Thesis: Transit Operations under Emergency Conditions.
35. **Abdul M Abro**, Spring 2007 UAB.  
M.S. Thesis: Impact of Signal Preemption on Transit Performance.
36. **Asha Chittoor**, Fall 2006 UAB.  
M.S. Project: Design, Safety and Performance of HOV Lanes.
37. **Santosh Shanmugam**, Fall 2006 UAB.  
M.S. Project: Alternatives Analysis of a Congested Suburban Arterial Using AIMSUN.

38. **Xuping Li**, Summer 2006, UAB.  
M.S. Thesis: Dynamic Traffic Assignment for Incident Management
39. **Johnnie C. Waid**, Spring 2006, UAB.  
M.S. Thesis: Alternative Financing Sources for Alabama Highways.
40. **Veera Gunda**, Fall 2005, UAB.  
M.S. Thesis: Design and Safety of Modern Roundabouts.
41. **Kapilkumar P. Sharma**, Fall 2005, UAB.  
M.S. Thesis: Implementation of Assess Management around Interstate Interchanges.
42. **Vishal Patil**, Summer 2005, UAB.  
M.S. Thesis: Experimental Tanker Truck Design for Increased Safety.
43. **Xiaohong Tang**, Spring 2005, UAB.  
M.S. Thesis: Evaluation of Safety Benefits of Intelligent Transportation Systems for Commercial Motor Vehicle Operations.
44. **Jonathan Byrd**, Spring 2005, UAB.  
M.S. Thesis: Assessment of Pedestrian Facilities on the Basis of Level of Service.
45. **Anirban Das**, Spring 2005, UAB.  
M.S. Thesis: Assessment of Ramp Metering Strategies.
46. **Sreenu Prakash S. Jasti**, Fall 2004, UAB.  
M.S. Thesis: Performance Evaluation of Hydrogen Vehicle Technology.
47. **Sameer Patharkar**, Spring 2004, UAB.  
M.S. Project: Regional Traffic Simulation for Emergency Preparedness.
48. **Alauddin Khan**, Fall 2002, MSU.  
M.S. Project: Improving Pedestrian Safety at Unsignalized Road Crossings.
49. **Xuesong (Jason) Zhang**, Spring 2002, MSU.  
M.S. Project: Methods for Improving Pedestrian Safety.
50. **Nadia Kholodova**, Spring 2001, MSU.  
M.S. Project: Application of ITS Technologies for Improving Traffic Circulation in the Vicinity of a Work Zone.
51. **Qingyan Yang**, Fall 1999, MSU.  
M.S. Thesis: Assessment of Rural ITS Wireless Communications' Solutions.
52. **Haseeb Ghumman**, Fall 1999, MSU.  
M.S. Project: The Analysis of Signalized Intersections on a Major Arterial for Both Existing Conditions and Future Growth Impacts.
53. **Farhan Haider**, Spring 1999, MSU.  
M.S. Project: Evaluation of Effectiveness of Motorcycle Safety Equipment.
54. **Krunz Main**, Fall 1998, MSU.  
M.S. Project: Study of Motorists Speeds at Work Zones.
55. **Jong-Suk Park**, May 1997, MSU.  
M.S. Project: Investigating the Potential Application of Catastrophe Theory to Traffic Flow Theory.
56. **Hitesh Patel**, December 1996, MSU.  
M.S. Project: Effect of Police Presence on Freeway Speed Choices.

### Current Advising. Chairperson Responsibilities

- 57. Sunil Terdalkar** (M.S., expected graduation Fall 2017)  
M.S. Thesis: Active Transportation and its Potential for Transforming Urban Universities into Green Campuses
- 58. Md. Ahsanul Islam** (M.S., expected graduation Spring 2018)  
M.S. Thesis: Intergrading Connected Vehicle Data into the Transportation Performance Measurement Process
- 59. Troyee Saha** (M.S., expected graduation: Spring 2019)
- 60. Furat Salman** (Ph.D., expected graduation: Spring 2020)

### Student Advisees/Mentees Honors and Awards (Limited to UAB only)

#### Scholarship Awards

- 2017, Islam, Md Ahsanul, 2017 Gulf Region Intelligent Transportation Society Scholarship
- 2017, Salman, Furat, 2017 GAFFP Scholarship, UAB Graduate School and CCEE
- 2016, Ramadan, Ossama, 2016 UAB Excellent Peer Postdoc Award
- 2016, Ramadan, Ossama, 1<sup>st</sup> Place STRIDE Student Poster Award
- 2015, Thompson, Rachael, 2015 ALSITE Billy T. Jones Memorial Scholarship
- 2015, Ramadan, Ossama, 2015 GAFFP Scholarship, UAB Graduate School and CCEE
- 2015, Ramadan, Ossama, UAB International Graduate Student Academic Excellence Award
- 2015, Ramadan, Ossama, Caroline and Charles W. Ireland International Student Scholarship
- 2015, Thompson, Rachael, Critical Language Scholarship (CLS), U.S. Department of State, Bureau of Educational and Cultural Affairs
- 2015, Jeromy Huang, Sustainability Investment Fund Award
- 2015, Thompson, Rachael, 2014-2015 UAB Civil Engineering Student of the Year
- 2015, Milner, Adrienne, 2014-2015 NASPA Excellence Award
- 2014, Alexander, Gauen, 2014 ALSITE Billy T. Jones Memorial Scholarship
- 2014, Mamidipalli, Shrikanth, 2014 GAFFP Scholarship,
- 2014, Ramadan, Ossama, Outstanding Graduate Student Engineer in Civil, Construction, and Environmental Engineering
- 2014, Mathews, Jamieson, New Face of Civil Engineering from ASCE
- 2013, Mathews, Jamieson, ALSITE Alexander Scholarship
- 2013, Zhong, Cheng, 2013 GAFFP Scholarship, UAB Graduate School and CCEE
- 2013, Doustmohammadi, Ehsan, 2013 GAFFP Scholarship, UAB Graduate School and CCEE
- 2012, Alnazer, Sara, 2012 Best Technical Paper Award, Southern District Institute of Transportation Engineers (SDITE)
- 2012, Imran, Shah Md, GAFFP Scholarship, UAB Graduate School and CCEE
- 2012, Imran, Shah Md, 1<sup>st</sup> Place Student Paper Award, Southern District Institute of Transportation Engineers (SDITE)
- 2012, Abro, Abdul Muqueet, 2012 GAFFP Scholarship, UAB Graduate School and CCEE
- 2011, Cavusoglu, Ozge, Third Place Team Finish, Southern District ITE Traffic Bowl Final

2011, Kallem, Bharath, Third Place Team Finish, Southern District ITE Traffic Bowl Final  
 2011, Zhong, Cheng, Third Place Team Finish, Southern District ITE Traffic Bowl Final  
 2011, Zhong, Cheng, GAFP Scholarship, UAB Graduate School and CCEE  
 2010, Zhong, Cheng, Graduate Paper Honorable Mention, Southern District ITE Student Paper Competition  
 2009, Cavusoglu, Ozge, UAB University Transportation Center Student of the Year Award  
 2009, Cavusoglu, Ozge, GAFP Scholarship, UAB Graduate School and CE Department  
 2007, Waid Johnnie, 1<sup>st</sup> place award presentation at the 2007 UAB Graduate Research Days  
 2007, Waid Johnnie, NSF graduate research fellowship award  
 2007, Waid Johnnie, Dwight D. Eisenhower Fellowship Recipient, TRB  
 2006, Waid Johnnie, Student of the Year Award, University Transportation Center for Alabama  
 2006, Abro, Abdul Muqueet, Outstanding Graduate Student of the Year, Department of Civil, Construction and Environmental Engineering at UAB.  
 2006, Waid Johnnie, Goodridge Foundation in Engineering Scholarship  
 2006, Waid Johnnie, UAB 2006 Future Faculty Fellowship  
 2005, Mamidipalli, Shrikanth, 2<sup>nd</sup> place in state level paper presentation competition- INSEARCH

#### Student Travel Awards

Forty-two of my advisees at UAB were selected to receive travel awards to attend and present at local, regional and international conference (2003-present).

### **PROFESSIONAL SERVICE**

2017-present Chair, American Association of University Women (AAUW) Birmingham (AL) Branch College/University Relations Committee  
 2017-present Scientific Committee Member, International Conference on Traffic Engineering (ICTE'18), April 8 - 10, 2018, Budapest, Hungary  
 2016-present Chair, Conference Organizing Committee, 3<sup>rd</sup> Annual International Conference on Transportation, June 5 - 8, 2017, Athens, Greece  
 2017 Co-Chair and Host, Local Arrangements Committee, ALSITE Spring Meeting, March 8, 2017, Birmingham, AL  
 2016-2017 Scientific Committee Member, International Conference on Traffic Engineering (ICTE'17), April 3 - 4, 2017, Barcelona, Spain  
 2016-present Member, Women's Transportation Seminar (WTS)  
 2015-present Editor, Athens Journal of Technology & Engineering  
 2015-present Elected Director, Research and Education Division, American Road & Transportation Builders Association (ARTBA)  
 2015-present Member, American Association of University Women (AAUW)  
 2015-present Advisor to Greek Ministry of Education and Religious Affairs, Greek Research and Technology Network  
 2015-present Member, Alabama Network for Women Leaders in Higher Education, American Council for Education (ACE)

2015-2016 Chair, Conference Organizing Committee, 2<sup>nd</sup> Annual International Conference on Transportation, June 6- 9, 2016, Athens, Greece

2015-present Head, Transportation Engineering Research Unit, ATINER

2015-2016 Scientific Committee Member, International Conference on Traffic Engineering (ICTE'16), March 30 - 31, 2016, Prague, Czech Republic

2015-present State of Alabama Representative, SDITE Young Programs Committee

2015 Proposal Review Panelist, National Science Foundation (NSF), Civil Infrastructure Systems

2014-2015 Conference Organizing Committee Chair, Annual International Conference on Transportation, 8-11 June 2015, Athens, Greece

2014-2015 Conference co-Chair and Local Host, 2015 University Transportation Center (UTC) Conference for the Southeastern Region, March 26-27, 2015, Birmingham, AL

2014-2015 SHREC 2015 Track Organizing Committee Member

2014-2015 Book Editor, "Planning & Civil Engineering"

2014 Technical Proposal Reviewer, NILS Science and Sustainability Programme, operated by Universidad Complutense de Madrid and funded by the EEA Grants

2013-present Bold Goals Coalition, Transportation Work Group

2013-2015 State of Alabama Representative, SDITE Education Fund Committee

2013-present Research Proposal Evaluator, University of California Transportation Center

2012-present Research Proposal Evaluator, National Center for Intermodal Transportation for Economic Competitiveness

2012-present Research Proposal Evaluator, Southeastern Transportation, Research, Innovation, Development, and Education Center

2012-present Associate Editor, *The International Journal of the Constructed Environment*.

2012-present Charter Member, TRB Taskforce on Emergency Evacuation (ANB10T)

2011-2013 Member of the International Scientific Advisory Committee of Disaster Management 2013

2011-present Associate Editor, *Journal of Transportation of the Institute of Transportation Engineers*

2011-2013 Technical Advisory Committee (TAC) Member, Institute of Transportation Engineers (ITE)/Robert Wood Johnson Foundation (RWJF)

2011-present New York Academy of Sciences

2011-present Evaluator, Greek Ministry of Education

2011-present Academic Member, Athens Institute for Education and Research (ATINER)

2010-2012 Scientific Officer, Research Program 'Archimedes III', Greek Ministry of Education, Lifelong Learning and Religious Affairs and the European Commission (EC)

2010-present Editor, *International Journal of Engineering and Industries (IJEI)*

2010-2012 Research Proposal Evaluator, Transportation Northwest University Transportation Research Center

2010-present Member, The Society of Modeling and Simulation International

2010-2012 Active Living Task Force

2009-2011 Advisory Board Member, Sit Tight-Caring for Kids in Cars Inc.

2008-present Member, National Association of Professional Women

2007-2012 Advisory Board Member, UAB University Transportation Center

- 2007-2009 Member, ALSITE Meeting Arrangements, Technical Program & Site Selection Committee
- 2007-2010 Member, ALSITE Student Services and Education Committee
- 2006-present Member, Society for Modeling and Simulation International
- 2005 Workshop Organizer and Host, Dynamic Traffic Assignment Workshop, Birmingham, AL
- 2005-2007 Member, Alabama Academy of Science, Engineering and Computer Sciences Section
- 2005-present Member, Joint Traffic Simulation Subcommittee, Transportation Research Board
- 2004-2010 Member, Access Management Committee, Research Subcommittee, Transportation Research Board
- 2004 Conference Organizer, 2004 Spring ALSITE Meeting, Birmingham, AL
- 2003-present Member, Bicycle/Pedestrian Advisory Committee, RPCGB
- 2002-2011 Member, UTCA Technology Transfer Steering Committee
- 2002-present Member, Alabama ITE Student Chapter Task Force
- 2000-2002 Chair, Non-Motorized Transportation Action Group for the State of Michigan
- 1997- 2000 Chair, Pedestrian Safety Action Group, Michigan Safety Management System
- 1998-1999 Chair, Students Affairs Committee, Intelligent Transportation Society of Michigan
- 1997-present Member, Highway Capacity and Quality of Service Committee, Pedestrians Subcommittee, Transportation Research Board
- 1999-2002 Member, Evaluation Committee, Consortium for ITS Training and Education
- 1998-2002 Member, Michigan Safety Management System Steering Committee
- 1995-2002 Member, Intelligent Transportation Society of Michigan
- 1995-2002 Member, 2-Wheeled and Special Use Vehicle Group, MI Safety Management System
- 1994-1995 Member, ITS Technical Committee-ITE Illinois Section
- 1991-1996 Member, Women's Transportation Seminar
- 1990-present Member, Institute of Transportation Engineers (Fellow since 2014)
- 1996-1999 Member, American Society of Engineering Education
- 1996-1998 Member, Faculty-Professional Women's Association
- 1991-present Member, Hellenic Institute of Transportation Engineers
- 1996-1998 Member, Sigma Xi, the Scientific Research Society
- 1996-present Invited reviewer for the following publications:
- Transportation Research Part F: Traffic Psychology and Behaviour
  - Accident Analysis & Prevention
  - Transportation Research Part A: Policy and Practice
  - Sage Open
  - Ethnicity & Disease
  - IEEE Intelligent Transportation Systems Transactions and Magazine
  - Springer Publishing
  - PWS Publishing Company
  - Microcomputers in Civil Engineering
  - Journal of Computer-Aided Civil & Infrastructure Engineering
  - Vehicle Systems Dynamics
  - Journal of Computing in Civil Engineering

- Journal of Transportation Research Board
- Transportation Research, Part C: Emerging Technologies
- IEEE- ITS Transactions
- ASCE Journal of Transportation Engineering
- Journal of ITS- Planning, Operations and Technology
- Transportation Science
- International Journal of Modelling and Simulation
- Journal of Intelligent Transportation Systems
- International Symposium on Transportation and Traffic Theory
- HKIE Transactions
- Transportation Research, Part E: Logistics and Transportation Review
- Society for Modeling & Simulation International
- Journal of Advanced Transportation
- International Journal of the Constructed Environment
- International Journal of Engineering and Industries
- Moravian Geographical Reports Journal
- Journal of Transportation of the Institute of Transportation Engineers
- Transportmetrica A: Transport Science

## INSTITUTIONAL SERVICE

2016-2017	Member, Tenure Review Committee for Dr. Foley, Department of Materials Science and Engineering
2016-2017	Member, Promotion and Tenure Review Committee for Dr. Genau, Department of Materials Science and Engineering
2016-present	Vice Chair, Commission for the Status of Women
2015-present	Appointed School of Engineering Representative to the UAB Sustainability Committee
2016-present	Appointed School of Engineering Representative to the Commission for the Status of Women
2015-present	STEM Representative, UAB American Association for University Women (AAUW) Relations Committee
2014-2015	Chair, Departmental Peer Review Committee for Dr. Waldron
2014-present	Member, UAB-wide Grievance and Termination Hearing Panel
2014-2016	Departmental Representative, UAB School of Engineering Faculty Executive Committee
2013-2014	Member, Department of Civil Engineering Search Committee for faculty hire in Structures
2013-2014	Member, Department of Civil Engineering Search Committee for faculty hire in Transportation
2013	Member, Pre-tenure 2 <sup>nd</sup> Interim Review for Dr. Waldron, Department of Civil, Construction, and Environmental Engineering
2013-2017	Chair, STRIDE Student of the Year Task Force

2012-2014 Faculty Mentor, Dr. Adrienne Milner, Sociology, UAB

2012-present Member, Graduate Student Application Review Committee

2012 Member, Department of Civil Engineering Search Committee for faculty hire

2012-present UAB Representative, Internal Steering Committee, STRIDE Regional University Transportation Consortium

2012 Member, Faculty Recruitment Committee, Department of Mechanical Engineering

2012-present Undergraduate Student Academic Co-Advisor, Department of Civil, Construction, and Environmental Engineering

2012 Member, Promotion and Tenure Review Committee for Dr. Salama, Department of Civil, Construction, and Environmental Engineering

2012 Member, Department of Mechanical Engineering Search Committee for faculty hire

2012 Member, Academic Affairs Committee, School of Engineering, The University of Alabama at Birmingham

2010-present Member, UAB Diabetes, Obesity & Metabolism (DO&M) Research Workgroup

2010-present Member, CCEE Departmental Scholarship Committee

2010-2015 Affiliate Member, UAB Commission on the Status of Women

2010-present Member, UAB Civil Engineering ABET Coordinating Committee

2010 Member, Pre-tenure 1<sup>st</sup> Interim Review for Dr. Du, Department of Civil, Construction, and Environmental Engineering

2010 Member, Pre-tenure 1<sup>st</sup> Interim Review for Dr. Waldron, Department of Civil, Construction, and Environmental Engineering

2010 Member, Department of Mechanical Engineering Search Committee for faculty hire

2010 Chair, Pre-tenure 2<sup>nd</sup> Interim Review for Dr. Salama, Department of Civil, Construction, and Environmental Engineering

2010 Chair, Pre-tenure 2<sup>nd</sup> Interim Review for Dr. Kirby, Department of Civil, Construction, and Environmental Engineering

2009 Member, Department of Mechanical Engineering Search Committee for faculty hire

2008-2010 Chair, Parental Leave Subcommittee, UAB Commission on the Status of Women

2008 Member, Department of Electrical and Computer Engineering Search Committee for faculty hire

2008 Member, Department of Mechanical Engineering Search Committee for faculty hire

2008-2010 Faculty Mentor, Dr. Du, Civil, Construction, and Environmental Engineering, UAB

2008 Member, Department of Electrical and Computer Engineering Search Committee for faculty hire

2007-2010 School of Engineering Representative, UAB Commission on the Status of Women

2007-2011 Chair, Dupuis Scholarship Committee, University of Alabama at Birmingham

2007-2008 Member, 2008 ADVANCE Symposium Advisory Committee

2007-2008 Faculty Mentor, Dr. Jennifer Harper, Civil, Construction, and Environmental Engineering, UAB

2007-2009 Chair, Equity and Diversity Committee, School of Engineering, UAB



2007-2010 Member, School of Engineering Search Committee for Chair of Electrical and Computer Engineering

2007-2008 Member, Department of Civil, Construction, and Environmental Engineering Interim Review Committee for Drs. Salama and Kirby

2007-2008 Member, Department of Civil, Construction, and Environmental Engineering Search Committee for faculty hire

2007-2012 Advisory Board Member, UAB University Transportation Center

2006-2014 Affirmative Action Officer, School of Engineering, University of Alabama at Birmingham

2006-2010 Diversity Contact, School of Engineering, The University of Alabama at Birmingham

2006-2008 Chair, Academic Affairs Committee, School of Engineering, University of Alabama at Birmingham

2006-2007 Faculty co-Advisor, UAB Society of Women Engineers (SWE)

2005-2007 Member, Dupuis Executive Committee, The University of Alabama at Birmingham

2004-2009 Member, UAB ADVANCE Advisory Board, The University of Alabama at Birmingham

2004-2005 Member, Academic Affairs Committee, School of Engineering, The University of Alabama at Birmingham

2004 Member, Search Committee for Faculty in Transportation Engineering, Civil, Construction, and Environmental Engineering, The University of Alabama at Birmingham

2004-2010 Member, Diversity Committee, School of Engineering, The University of Alabama at Birmingham

2004-2008 Coordinator, Civil and Environmental Engineering Certificate Programs, Department of Civil, Construction, and Environmental Engineering, The University of Alabama at Birmingham

2003-present Director, Transportation Laboratory, Department of Civil, Construction, and Environmental Engineering, The University of Alabama at Birmingham

2003-2013 Web Administrator, Department of Civil, Construction, and Environmental Engineering, The University of Alabama at Birmingham

2003-present Member, The University of Alabama at Birmingham, Center for Disaster Preparedness Department of Emergency Medicine, School of Medicine, Birmingham, AL

2002-present Coordinator, Transportation Program Curriculum, Department of Civil, Construction, and Environmental Engineering, The University of Alabama at Birmingham

2002-present Faculty Advisor and Founder, UAB Institute of Transportation Engineers Student Chapter

2002-2006 Member, Academic Affairs Committee, School of Engineering, The University of Alabama at Birmingham

2000-2001 Member, Search Committee for Faculty in Civil Engineering, Department of Civil and Environmental Engineering, Michigan State University

2000-2002 Member, University Committee on Academic Governance, Michigan State University

2000-2002 Member, Academic Council, Michigan State University

2000-2002 Member, Faculty Council, Michigan State University

1999-2002	Member, Diversity Initiatives Advisory Committee, College of Engineering, Michigan State University
1995-2002	Member, Women's Advisory Committee to the Dean of Engineering, College of Engineering, Michigan State University (Chairperson 1997-1999)
1996-1998	Member, Graduate Studies Committee, Department of Civil and Environmental Engineering, Michigan State University (Chairperson 1998-1999)
1996-1999	Member, Affirmative Action Advisory Committee, College of Engineering, Michigan State University
1995	Member, Automotive Research Initiative, College of Engineering, Michigan State University
1995-2002	Faculty Advisor, Hellenic and Cypriot Association, Michigan State University
1995-1996	Member, Search Committee for Faculty in Civil Engineering, Department of Civil and Environmental Engineering, Michigan State University
1995	Member, Search Committee for Highway Traffic Safety Programs Director, MSU

## COMMUNITY ENGAGEMENT

2017	UAB Habitat House Build 2017, Volunteer, Birmingham, AL
2017	Teen Driving Summit, Volunteer, Oxford, AL
2016-2017	2017 UAB Girls in Science and Engineering Day, Chair, Birmingham, AL
2015-2016	2016 UAB Girls in Science and Engineering Day, Chair, Birmingham, AL
2015-present	Birmingham Firehouse Shelter, Birmingham, AL
2014	Kids in Engineering Day, Volunteer, Birmingham, AL
2014	Teen Driving Safety Summit, Volunteer, Birmingham, AL
2014	2014 UAB Girls in Science and Engineering Day, Volunteer, Birmingham, AL
2014	Trace Crossing Elementary Career Day, Birmingham, AL
2013	Kids in Engineering Day, Birmingham, AL
2013	Pop-Up Project, Avondale, AL
2013-2014	3rd Grade Home Mom, Trace Crossings Elementary, Hoover, AL
2012	Teen Driving Safety Summit, Pelham, AL
2012	Rainwater Collection Project for an Elementary School Campus Garden, Hoover, AL
2012-2015	Volunteer, Hoover High School, Hoover, AL
2012-2014	Society of Women Engineers (SWE), MathCounts
2007-2011	Fundraiser, March of Dimes
2007-2011	Philoptochos Scholarship Committee, Birmingham, AL
2007-2009	Nicholas Sarris Scholarship Foundation, Birmingham, AL
2004-present	Volunteer, Greek Orthodox Cathedral of Birmingham, AL
2001-2002	Treasurer, Odyssey School of Greek Culture and Language, Lansing, MI

## PROFESSIONAL REGISTRATION

Registered Professional Engineer since 1989- Greece P.E. TEE # 54542

## PERSONAL

### Marital Status:

Married (Dr. Yiannis Argyropoulos), two children (Danae 1997; Christos 2005)

### Citizenship:

U.S. (Naturalized, 2001)

### Languages:

English, Greek, French, German.