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EDUCATION

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| Ph.D., 2009 | Civil & Coastal Engineering, University of Florida, Gainesville, Florida. |
| M.S., 2005 | Civil & Coastal Engineering, University of Florida, Gainesville, Florida. |
| Diploma, 2003 | Rural and Surveying Engineering, (five year program) National Technical University of Athens, Athens, Greece. |

EMPLOYMENT

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| 8/2014 – present | Assistant Professor , University of Kansas, Lawrence, Kansas. |
| 8/2019 – 8/2020 | Chair’s Council Assistant Professor , University of Kansas, Lawrence, Kansas. |
| 11/2012 – 8/2014 | Postdoctoral Associate , University of Florida, Gainesville, Florida. |
| 1/2011 – 1/2013 | Transportation Researcher , National Technical University of Athens, Athens, Greece. |
| 8/2009 – 11/2012 | Transportation Engineering Consultant , collaboration with ANKA Consulting, Athens, Greece. |

HONORS & AWARDS

- **Chair’s Council Assistant Professor**, Department of Civil, Environmental, and Architectural Engineering, University of Kansas, 2019-2020.
- **ASCE ExCEED Teaching Fellow**, 2015.
- **Best Practices Institute Fellow**, University of Kansas Center for Teaching Excellence, 2015.
- **Best Paper Award Finalist** for the paper “A 3D Experimental Framework for Exploring Drivers’ Body Activity Using Infrared Depth Sensors” during the 2nd International Conference on Connected Vehicles & Expo (ICCVE 2013), Las Vegas, NV, 2013.
- **Best Student Poster Award** for the poster “Driver Behavior at Freeway-Ramp Merging Areas: Focus Group Findings” during the ITS-TRANSPO Conference, Orlando, Florida, 2008.
- **Outstanding Student Award**, University of Florida International Center, 2006.

RESEARCH ACTIVITY

1. **Co-PI** on project “Providing Crash Data Analysis Services for the Kansas Department of Transportation”. Project funded through Kansas DOT (2019-2021). Project budget: \$98,032. PI: Steven Schrock, PhD, University of Kansas.
2. **PI** on project “Calibration of a Driver Behavior Framework for Automated and Manually Driven Vehicles”. Project funded through the University of Kansas Center for Research, General Research Fund (2019-2020). Project budget: \$9,995.
3. **PI** on project “Enhancing Course Transformation for CE 480 – Intro to Transportation Engineering”. Project funded through the University of Kansas Center for Teaching

- Excellence and the TRESTLE Course Transformation Grant (2018-2019). Project budget: \$1,500.
4. **PI** on project “Modeling Driver Aggressiveness and its Impact on Safety Using Biobehavioral Methods – Phase II”. Project funded through MATC/US DOT (2018-2019). Project budget: \$84,128.
 5. **PI** on project “Effectiveness of Entertaining Non-Traffic Related Messages on Dynamic Message Signs”. Project funded through Kansas DOT (2018-2020). Project budget: \$94,800.
 6. **PI** on project “Alternative Designs to Alleviate Freeway Bottlenecks at Merge/Diverge and Weaving Areas”. Project funded through FHWA Saxton Lab (2017-2019). Project budget: \$300,000. KU portion: \$30,000. PI: David Hale, PhD, Leidos.
 7. **PI** on project “Promoting the Transportation Systems Management & Operations Program in Kansas”. Project funded through Kansas DOT (2017-2019). Project budget: \$71,500.
 8. **PI** on project “Modeling Driver Aggressiveness and its Impact on Safety Using Biobehavioral Methods – Phase I”. Project funded through MATC/US DOT (2017-2018). Project budget: \$84,128.
 9. **Co-PI** on project “2016 Work Zone and Guardrail Safety Training Grant”. Project funded through FHWA (2017-2022). Project budget: \$1,500,000. KU co-PI/ KU portion: \$187,500. PI: Peter Savolainen, PhD, Iowa State University.
 10. **Co-PI** on project “Providing Crash Data Analysis Services for the Kansas Department of Transportation”. Project funded through Kansas DOT (2017-2018). Project budget: \$107,617. PI: Steven Schrock, PhD, University of Kansas.
 11. **PI** on project “Narrowing Freeway Lanes and Shoulders to Create Additional Travel Lanes”. Project funded through FHWA Saxton Lab (2016-2018). Project budget: \$400,000. KU portion: \$39,200. PI: David Hale, PhD, Leidos.
 12. **Co-PI** on project “Exploring the Factors Influencing Property Value Changes and Neighborhood Health in Johnson County, Kansas”. Project funded through Johnson County, Kansas (2016-2017). Project budget: \$39,746. PI: Ting Lei, PhD, University of Kansas.
 13. **PI** on project “Driver Body Posture Modeling in a Driving Simulator Environment”. Project funded through the New Faculty General Research Fund, the University of Kansas (2016-2017). Project budget: \$8,000.
 14. **PI** on project “Improving the Accuracy and Applicability of Kansas Traffic Data”. Project funded through Kansas DOT (2016-2018). Project budget: \$60,000.
 15. **PI** on project “Evaluation of Ramp Metering Effectiveness Along the I-35 Corridor in the Kansas City Metropolitan Area”. Project funded through Kansas DOT (2015-2019). Project budget: \$59,983.
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16. **Co-PI** on project “Investigating the Effect of Drivers’ Body Motion on Traffic Safety”. Project funded through the STRIDE (Southeastern Transportation Research, Innovation, Development & Education) Center (2013-2015). Project budget: \$132,973. PI: Angelos Barmpoutis, PhD, University of Florida.
 17. **Project manager** for the FDOT funded project “Comparison of Methods for Measuring Travel Time at Florida Freeways and Arterials” (2013-2014). PI: Lily Elefteriadou, PhD, University of Florida.
 18. **Project manager** for the FDOT funded project “Estimation of Capacities on Florida Freeways” (2013-2014). PI: Lily Elefteriadou, PhD, University of Florida.

19. **Project participant** in the project “Investigation of Performance Characteristics of On-line Calibration Algorithms for Dynamic Traffic Assignment of Large Scale Networks” (January 2011 – January 2013). PI: Constantinos Antoniou, PhD, National Technical University of Athens.
20. **Project manager** of the NCHRP 3-87 “Proactive Ramp Management Under the Threat of Freeway Flow Breakdown” (2006-2009). PI: Lily Elefteriadou, PhD, University of Florida.
21. **Project participant** in the project funded by Southeastern Transportation, Research, Innovation, Development and Education Center (STRIDE) “Investigation of ATDM Strategies to Reduce the Probability of Breakdown” (2012-2014). PI: Mohammed Hadi, PhD, Florida International University, co-P.I. Lily Elefteriadou, PhD, University of Florida.
22. **Project participant** in the project funded by FDOT “Lifting High-Occupancy-Vehicle Lane Eligibility and Shoulder Use Restrictions for Traffic Incident Management” (2013-2014). PI: Yafeng Yin, PhD, University of Florida.
23. **Project participant** in the FDOT-funded project “Impact of Trucks on Arterial LOS and Freeway Work Zone Capacity”. PIs: Lily Elefteriadou, PhD/Scott Washburn, PhD, University of Florida.
24. **Project participant** in the FDOT-funded project: “Development of Guidelines for Driveway Location and Median Configuration in the Vicinity of Interchanges” (2004-2005). PI: Scott Washburn, PhD, University of Florida.
25. **Project participant** in the development of the NCHRP 3-60 Final Report: “Capacity and Quality of Service of Interchange Ramp Terminals” (2001-2004). PI: Lily Elefteriadou, PhD, University of Florida.

JOURNAL PUBLICATIONS (peer-reviewed)

1. **Kondyli, A.**, D. Hale, M. Asgharzadeh*, B. Schroeder, A. Jia, J. Bared, “Evaluating the Operational Effect of Narrow Lanes and Shoulders for the Highway Capacity Manual”. *Transportation Research Record: Journal of the Transportation Research Board*, May 2019 (published online). (<https://doi.org/10.1177/0361198119849064>)
2. Shehada, M.*, **A. Kondyli**, “Evaluation of Ramp Metering Impacts on Travel Time Reliability and Traffic Operations through Simulation”. *Journal of Advanced Transportation*, Vol. 2019, Article ID 8740158, 12 pages. (<https://doi.org/10.1155/2019/8740158>)
3. Kummetha, V.C.*, **A. Kondyli**, S.D. Schrock, “Analysis of the Effects of Adaptive Cruise Control on Driver Behavior and Awareness Using a Driving Simulator.” *Journal of Transportation Safety and Security*, published online December 2018. ([10.1080/19439962.2018.1518359](https://doi.org/10.1080/19439962.2018.1518359))
4. Asgharzadeh, M.*, **A. Kondyli**, “Comparison of Highway Capacity Estimation Methods” *Transportation Research Record: Journal of the Transportation Research Board*, Vol. 2672(15), 2018, pp. 75-84. ([10.1177/0361198118777602](https://doi.org/10.1177/0361198118777602))
5. **Kondyli, A.**, A. Barmpoutis, V. P. Sisiopiku, L. Zhang, L. Zhao, M. M. Islam, S. S. Patil*, S. Rostami Hosuri, “A 3D Body Posture Analysis Framework During Merging And Lane Changing Maneuvers” *Journal of Transportation Safety and Security*, 10(5), pp. 411-428, 2018. ([10.1080/19439962.2017.1294226](https://doi.org/10.1080/19439962.2017.1294226))

6. **Kondyli, A.**, B. St. George, L. Elefteriadou, G. Bonyani, "Defining, Measuring, and Modeling Capacity for the Highway Capacity Manual" *ASCE Journal of Transportation Engineering, Part A: Systems*, Vol 143(3), March 2017. ([10.1061/JTEPBS.0000017](https://doi.org/10.1061/JTEPBS.0000017))
7. Zhang, Y., D.J. Sun, **A. Kondyli**, "An Empirical Framework for Intersection Optimization Based on Uniform Design" *Journal of Advanced Transportation*, Vol. 2017, Article ID 7396250, 10 pages, 2017. ([10.1155/2017/7396250](https://doi.org/10.1155/2017/7396250))
8. Sajjadi, S., **A. Kondyli**, "Macroscopic and Microscopic Analysis of Managed Lanes on Freeway Facilities in South Florida" *Journal of Traffic and Transportation Engineering (English Edition)*, Vol 4(1), pp. 61-70, January 2017. ([10.1016/j.jtte.2016.12.002](https://doi.org/10.1016/j.jtte.2016.12.002))
9. **Kondyli, A.**, B. St. George, L. Elefteriadou, "Comparison of Travel Time Measurement Methods Along Freeway and Arterial Facilities" *Transportation Letters: The International Journal of Transportation Research*, October 2016 ([10.1080/19427867.2016.1245259](https://doi.org/10.1080/19427867.2016.1245259))
10. Hale, D., J. Ma, **A. Kondyli**, J. Hu, Z. Huang, P. Su, "Right-Turn-On-Red Flow Profile Impacts on Urban Street Capacity Analysis" *Transportation Research Record: Journal of the Transportation Research Board* Vol. 2553, Transportation Research Board of the National Academies, Washington, DC, 2016 ([10.3141/2553-04](https://doi.org/10.3141/2553-04))
11. **Kondyli, A.**, V. Sisiopiku, A. Barmpoutis, "Computer Assisted Analysis of Drivers' Body Activity Using a Range Camera" *IEEE Intelligent Transportation Systems Magazine*, 7(3), pp. 18-28, July 2015. ([10.1109/MITS.2015.2439179](https://doi.org/10.1109/MITS.2015.2439179))
12. Hill, C., L. Elefteriadou, **A. Kondyli**, "Exploratory Analysis of Lane Changing Behavior on Freeways based on Driver Behavior" *ASCE Journal of Transportation Engineering*, 141(4), 2015. ([10.1061/\(ASCE\)TE.1943-5436.0000758](https://doi.org/10.1061/(ASCE)TE.1943-5436.0000758))
13. Li, Z., L. Elefteriadou, **A. Kondyli**. "Quantifying Weather Impacts on Traffic Operations for Implementation into a Travel Time Reliability Model" *Transportation Letters: The International Journal of Transportation Research*, December 2014. ([10.1179/1942787514Y.0000000050](https://doi.org/10.1179/1942787514Y.0000000050))

14. Modi V., **A. Kondyli**, S. S. Washburn, D. S. McLeod. "A Freeway Capacity Estimation Method for Planning Applications" *ASCE Journal of Transportation Engineering*, 140(9), 2014. ([10.1061/\(ASCE\)TE.1943-5436.0000699](https://doi.org/10.1061/(ASCE)TE.1943-5436.0000699))
15. Soria, I., L. Elefteriadou, **A. Kondyli**, "Assessment of Car-Following Models by Driver Type and under Different Traffic, Weather Conditions using Data from an Instrumented Vehicle" *Simulation Modelling Practice and Theory* (40), Elsevier, pp. 208-220, 2014. ([10.1016/j.simpat.2013.10.002](https://doi.org/10.1016/j.simpat.2013.10.002))
16. Elefteriadou L., **A. Kondyli**, W. Brilon, F. Hall, B. Persaud, S. Washburn, "Enhancing Ramp Metering Algorithms with the Use of Probability of Breakdown Models" *ASCE Journal of Transportation Engineering*, 140(4), 2014. ([10.1061/\(ASCE\)TE.1943-5436.0000653](https://doi.org/10.1061/(ASCE)TE.1943-5436.0000653))
17. **Kondyli A.**, L. Elefteriadou, W. Brilon, F. Hall, B. Persaud, S. Washburn, "Development and Evaluation of Methods for Constructing Breakdown Probability Models" *ASCE Journal of Transportation Engineering*, 139(9), pp. 931-940, 2013. ([10.1061/\(ASCE\)TE.1943-5436.0000574](https://doi.org/10.1061/(ASCE)TE.1943-5436.0000574))
18. Yannis G., **A. Kondyli**, X. Georgopoulou, "Investigation of the Impact of Low Cost Engineering Measures on Road Safety in Urban Areas" *The International Journal of Injury Control and Safety Promotion*, May 2013. ([10.1080/17457300.2013.796387](https://doi.org/10.1080/17457300.2013.796387))

19. Yannis G., **A. Kondyli** and N. Mitzalis, "Effect of Road Lighting Conditions on the Frequency and Severity of Road Accidents" *Proceedings of the Institution of Civil Engineers: Transport*, Vol 166(5), pp. 271-281, March 2013. ([10.1680/tran.11.00047](#))
20. Antoniou C., **A. Kondyli**, G. Lykogianni, E. Gyftodimos, "Exploratory Assessment of the Limiting Extended Kalman Gain Matrix Properties" *Journal of Transportation and Communication*, Vol 14(1), pp. 1-12, March 2013. ([10.2478/ttj-2013-0001](#))
21. **Kondyli A.**, and L. Elefteriadou, "Driver Behavior At Freeway-Ramp Merging Areas Based On Instrumented Vehicle Observations" *Transportation Letters: The International Journal of Transportation Research* Vol 4(3), pp. 129-141, July 2012. ([10.3328/TL.2012.04.03.129-141](#))
22. **Kondyli A.**, I. Soria, A. Duret, and L. Elefteriadou, "Sensitivity Analysis of CORSIM with Respect to the Process of Freeway Flow Breakdown" *Simulation Modelling Practice and Theory* (22), Elsevier, pp. 197-206, 2012. ([10.1016/j.simpat.2011.12.008](#))
23. **Kondyli, A.**, and L. Elefteriadou. "Modeling Driver Behavior at Freeway-Ramp Merges" *Transportation Research Record: Journal of the Transportation Research Board* Vol. 2249, Transportation Research Board of the National Academies, Washington, DC, pp. 29-37, 2011. ([10.3141/2249-05](#))
24. Sun, D.J., and **A. Kondyli**. "Modeling Vehicle Interactions During Lane Changing Behavior on Arterial Streets" *Computer-Aided Civil and Infrastructure Engineering*, Vol 25(8), pp. 557-571, November 2010. ([10.1111/j.1467-8667.2010.00679.x](#))
25. **Kondyli, A.**, and L. Elefteriadou. "Driver Behavior at Freeway-Ramp Merging Areas: Focus Group Findings" *Transportation Research Record: Journal of the Transportation Research Board* Vol. 2124, Transportation Research Board of the National Academies, Washington, DC, pp. 157 - 166, 2009. ([10.3141/2124-15](#))
26. Heaslip, K., **A. Kondyli**, D. Arguea, L. Elefteriadou, and F. Sullivan. "Estimation of Freeway Work Zone Capacity Using Simulation and Field Data" *Transportation Research Record: Journal of the Transportation Research Board* Vol. 2130, Transportation Research Board of the National Academies, Washington, DC, pp. 16 - 24, 2009. ([10.3141/2130-03](#))

* Student author

BOOKS AND BOOK CHAPTERS

1. *Network Design and Optimization for Smart Cities*. "Congestion and Traffic Management at Urban Networks: State-of-the-Art Approaches and Challenges". Series on Computers and Operations Research Vol. 8, Eds. K. Gakis and P. Pardalos. World Scientific. ISBN: 978-981-3200-00-5. March 2017.

JOURNAL PAPERS UNDER REVIEW (pending decision)

1. Ghiasi, A., J. Bared, **A. Kondyli**, D. Hale, "An Integrated Ramp and Mainline Metering Control to Alleviate Freeway Bottlenecks at Merge Areas". Submitted for presentation and publication to the Transportation Research Board Annual Meeting, Washington, DC, August 2019.
2. Kummetha, V. C.*, **A. Kondyli**, "Investigating the Relationship between Workload, Situation Awareness, and Driving Performance, as a Function of Task Demand: A Simulator-Based Study". Submitted for presentation and publication to the Transportation Research Board Annual Meeting, Washington, DC, August 2019.

3. Asgharzadeh*, M., **A. Kondyli**, “Lane-Based Cell Transmission Model for Traffic Flow Simulation”. Submitted for presentation to the Transportation Research Board Annual Meeting, Washington, DC, August 2019.
4. Alsharari, A.* , M. Asgharzadeh*, **A. Kondyli**, “Estimation of the Effect of Rain and Incidents on Freeway Capacity and Free-Flow Speed”. Submitted for presentation and publication to the Transportation Research Board Annual Meeting, Washington, DC, August 2019.
5. Guerra, A. H.* , M. Asgharzadeh*, **A. Kondyli**, “Discretionary Lane Changing Decisions for Connected Automated Vehicles Based on Fuzzy Logic”. Submitted for presentation and publication to the Transportation Research Board Annual Meeting, Washington, DC, August 2019.
6. Asgharzadeh, M.* , P. Gubbala*, **A. Kondyli**, S.D. Schrock, “Effect of On-Ramp Demand and Flow Distribution on Capacity at Merge Bottleneck Locations”. Submitted to Transportation Letters: the International Journal of Transportation Research, under re-review, July 2019.
7. Asgharzadeh, M.* , **A. Kondyli**, “Evaluating the Effect of Geometry and Control on Freeway Merge Bottleneck Capacity”. Submitted to ASCE - Journal of Transportation Engineering Part A, May 2019.

* Student author

CONFERENCE PROCEEDINGS (peer-reviewed)

1. Johnson, M.* , Y. Li*, A. Pope*, A. Subirana*, T. Woodruff*, V.C. Kummetha*, **A. Kondyli**, T. DeAgostino, and C. Depcik. “Integration of an Anti-lock Braking System into a National Advanced Driving Simulator”. Accepted for presentation at the Road Safety and Simulation Conference, Iowa City, IA, October, 2019.
2. McVey, M., **A. Kondyli**, C. Melgares*. “Assessment of Flipped Classroom and Team-based Learning Techniques in a Transportation Engineering Introductory Course”. In Proceedings of the American Society for Engineering Education Annual Conference & Exposition, Tampa, FL, June 2019.
3. **A. Kondyli**, D. Hale, M. Asgharzadeh*, B. Schroeder, A. Jia, J. Bared, “Evaluating the Operational Effect of Narrow Lanes and Shoulders for the Highway Capacity Manual”. In Proceedings of the 98th Annual Meeting of the Transportation Research Board, Washington, DC, January 2019.
4. Asgharzadeh, M.* , **A. Kondyli**, “Evaluating the Effect of Geometry and Control on Freeway Merge Bottleneck Capacity”. In Proceedings of the 98th Annual Meeting of the Transportation Research Board, Washington, DC, January 2019.
5. Manjunatha, P., V.C. Kummetha*, **A. Kondyli**, L. Elefteriadou, “Validating the Task-Capability Extension to the Intelligent Driver Model (IDM) Using Driving Simulator Data”. Extended abstract. In Proceedings of the 98th Annual Meeting of the Transportation Research Board, Washington, DC, January 2019.
6. D. Hale, L. Button, J. Argote, X. Zhang, C. Joshi, **A. Kondyli**, R. James, J. Bared, “Calibration of Microsimulation Car-Following Models for Narrow Freeway Lanes”. Extended abstract. In Proceedings of the 98th Annual Meeting of the Transportation Research Board, Washington, DC, January 2019.

7. Ghiasi, A., D. Hale, J. Bared, **A. Kondyli**, J. Ma, "A Dynamic Signal Control Approach for Integrated Ramp and Mainline Metering." In Proceedings of the 21st IEEE International Conference on Intelligent Transportation Systems, Maui, Hawaii, November 2018.
 8. **Kondyli, A.**, M. McVey, "Implementation of Flipped Classroom and Active Learning Techniques in a Transportation Engineering Introductory Course." In Proceedings of the American Society of Engineering Education, Midwest section conference, Kansas City, MO, September 2018.
 9. Asgharzadeh, M.*, **A. Kondyli**, "Comparison of Highway Capacity Estimation Methods." In Proceedings of the 97th Annual Meeting of the Transportation Research Board, Washington DC, January 2018.
 10. Hale, D., G. Chrysikopoulos*, **A. Kondyli**, "Evaluation of Data-Driven Performance Measures for Comparing and Ranking Traffic Bottlenecks." Extended abstract. In Proceedings of the 97th Annual Meeting of the Transportation Research Board, Washington DC, January 2018.
 11. Manjunatha, P., **A. Kondyli**, L. Elefteriadou, "How Has Driver Behavior Been Considered in Traffic Microsimulation Models and How Can we Use Cognitive Sciences and Psychology Studies to Enhance Them?". In Proceedings of the 96th Annual Meeting of the Transportation Research Board, Washington DC, January 2017.
 12. Sajjadi, S., **A. Kondyli**, "Analysis of Managed Lanes on Freeway Facilities in South Florida: Macroscopic and Microscopic Approaches". In Proceedings of the 96th Annual Meeting of the Transportation Research Board, Washington DC, January 2017.
 13. **Kondyli, A.**, P. Gubbala*, L. Elefteriadou, "The Contribution of Ramp Demand in the Capacity of Merge Bottleneck Locations". In Transportation Research Procedia, International Symposium on Enhancing Highway Performance (ISEHP) 2016, Berlin, June 2016, 10.1016/j.trpro.2016.06.029.
 14. **Kondyli, A.**, A. Barmpoutis, V. Sisiopiku, "Safety-Related Analysis of the 3D Driver Body Posture Using Naturalistic Data". In Proceedings of the 95th Annual Meeting of the Transportation Research Board, Washington DC, January 2016.
 15. **Kondyli, A.**, A. Barmpoutis, V. Sisiopiku, L. Zhang, Zhao, L., M. Islam, S. Patil*, and S. Hosuri, "Analyzing 3D Body Posture Activity during Merging and Lane Changing Maneuvers". Road Safety and Simulation International Conference, Orlando, FL, October 2015.
 16. **Kondyli, A.**, B. St. George, L. Elefteriadou, "An Investigation of the Freeway Capacity Definition and Values at Various Types of Bottlenecks". In Proceedings of the 94th Annual Meeting of the Transportation Research Board, Washington, DC, January 2015.
 17. Hale, D., **A. Kondyli**, F. T. Creasey, J. Ma, "Suggested RTOR Methodology Improvements for Urban Street Segments in the HCM". In Proceedings of the 94th Annual Meeting of the Transportation Research Board, Washington, DC, January 2015.
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18. **Kondyli, A.**, V. Sisiopiku, A. Barmpoutis, "Comparative Analysis of Driving Maneuvers Using 3D Body Posture Data". In Proceedings of the 5th International Conference on Applied Human Factors and Ergonomics (AHFE 2014), Kraków, Poland, July, 2014.
 19. Li, Z., L. Elefteriadou, **A. Kondyli**. "Modeling Weather Impacts on Traffic Operations: Implementation into Florida's Travel Time Reliability Model". In Proceedings of the 93rd Annual Meeting of the Transportation Research Board, Washington, DC, January 2014.
 20. **Kondyli, A.**, V. Sisiopiku, A. Barmpoutis, "A 3D Experimental Framework for Exploring Drivers' Body Activity Using Infrared Depth Sensors" (Best Paper Award Finalist). In

- Proceedings of the 2nd International Conference on Connected Vehicles & Expo (ICCVE 2013), Las Vegas, NV, December 2013.
21. Antoniou C., G. Lykogianni, E. Gyftodimos, **A. Kondyli**, “A Preliminary Exploration of the Limiting Extended Kalman Gain Matrix Properties”. (Abstract peer-reviewed). In Proceedings of the 12th International Conference Reliability and Statistics in Transportation and Communication, Riga, Latvia, October 1012.
 22. **Kondyli, A.**, I. Spyropoulou, C. Antoniou, and B. Psarianos, “Investigation of Traffic Flow Characteristics on Greek Freeways Under Dense Traffic Conditions”. In Proceedings of the 3rd Pan-Hellenic Conference in Roadway Design, Athens, Greece, February 2012.
 23. Elefteriadou L., W. Brilon, F. Hall, B. Persaud, S. Washburn and **A. Kondyli**, “Proactive Ramp Metering Based on Breakdown Probabilities”. In Proceedings of the 6th ISHC World Congress, Stockholm, Sweden, July 2011.
 24. **Kondyli, A.**, I. Soria, A. Duret, and L. Elefteriadou, “How Well Does CORSIM Replicate the Process of Freeway Breakdown?” In Proceedings of the 90th Annual Meeting of the Transportation Research Board, Washington, DC, January 2011.
 25. Elefteriadou L., **A. Kondyli**, W. Brilon, F. Hall, B. Persaud, S. Washburn, “Ramp Metering Enhancements For Postponing Freeway-flow Breakdown”. In Proceedings of the 90th Annual Meeting of the Transportation Research Board, Washington, DC, January 2011.
 26. **Kondyli, A.**, and L. Elefteriadou, “Driver Behavior at Freeway-Ramp Merging Areas”. In Proceedings of the 5th International Congress on Transport Research, Volos, Greece, September 2010.
 27. **Kondyli, A.**, and L. Elefteriadou, “Driver Behavior at Freeway-Ramp Merging Areas Based on Instrumented Vehicle Observations”. In Proceedings of the 89th Annual Meeting of the Transportation Research Board, Washington, D.C., January 2010.
 28. Sun, J., **A. Kondyli**, and L. Elefteriadou, “Modeling Vehicle Interactions During Lane Changes Under Congested Conditions on Arterial Streets”. In Proceedings of the 10th International Conference on Applications of Advanced Technologies in Transportation, Athens, Greece, May 2008.
 29. **Kondyli, A.**, A. Duret, and L. Elefteriadou, “Evaluation of CORSIM and AIMSUN for Freeway Merging Segments Under Breakdown Conditions”. In Proceedings of the 86th Annual Meeting of the Transportation Research Board, Washington, D.C., January 2007.
 30. **Kondyli, A.**, L. Elefteriadou, and S. Washburn, “Development of an Arterial Travel Time Model with Consideration of Mid-Block Effects”, In Proceedings of the 5th International Symposium in Highway Capacity, Yokohama, Japan, July 2006.
 31. Lin P., L. Elefteriadou, and **A. Kondyli**, “A Ramp-Metering Algorithm Based On Probabilistic Breakdown”. In Proceedings of the 1st International Symposium on Freeway and Tollway Operations, Athens, Greece, June 2006.
 32. Elefteriadou L., C. Fang, R. Roess, E. Prassas, and **A. Kondyli**, “A Methodology for Evaluating the Operational Performance of Interchange Ramp Terminals”, In Proceedings of the 2nd Pan-Hellenic Conference in Roadway Design, Volos, Greece, May 2005.

* Student author

CITATION METRICS

Google Scholar Indices

Citations: 497

h-index: 13

i10-index: 16

ResearchGate Index

RG Score: 19.41

RESEARCH REPORTS

1. **Kondyli, A.** "Driver Body Posture Modeling in a Driving Simulator Environment". KU Center for Research, University of Kansas, Final Report, January 2019.
2. **Kondyli, A.,** E. G. Chrysikou, C. H. Ramey, V. C. Kummetha. "Modeling Driver Behavior and Aggressiveness Using Biobehavioral Methods – Part I". (Report No. 25-1121-0005-153-1). Lincoln, Nebraska: Mid-America Transportation Center, University of Nebraska-Lincoln. December 2018.
3. Hale, D., **A. Kondyli,** J. Argote, A. Zhang, B. Schroeder, L. Button, J. Atkinson, D. Stock, A. Cheema, S. Sajjadi, M. Aycin, M. Brackstone, Canayon, J. Casas, A. Lenorzer, H. Jia, C. Joshi. "Narrowing Freeway Lanes and Shoulders to Create Additional Travel Lanes". Prepared for FHWA, Final Report, October 2018.
4. Hale, D., A. Ghiasi, P. Volet, B. Cesme, **A. Kondyli,** B. Schroeder, S. Sethi, M. Aycin. "Alternative Designs to Alleviate Freeway Bottlenecks at Merge/Diverge and Weaving Areas". Prepared for FHWA, Final Report, September 2018.
5. **Kondyli, A.,** S. D. Schrock, G. Chrysikopoulos. "Improving the Accuracy and Applicability of Kansas Traffic Data". Prepared for the Kansas Department of Transportation, Final Report, March 2018.
6. Ho, A.T., J. Koncur, T. Lei, **A. Kondyli,** E. Sutley. "Harnessing Big Data to Evaluate the Impacts of Tax Incentive Districts on Residential Property Values in Johnson County". Prepared for Johnson County, Kansas, Draft Final Report, May 2017.
7. Barmpoutis, A., **A. Kondyli,** and V. P. Sisiopiku. "Investigating the Effect of Drivers' Body Motion on Traffic Safety". Southeastern Transportation Research, Innovation, Development and Education (STRIDE) Center, Draft Final Report, November 2015.
8. Hadi, M., L. Elefteriadou, Y. Xiao, **A. Kondyli,** A. Darroudi, C. Letter. "Investigation of ATDM Strategies to Reduce the Probability of Breakdown". Southeastern Transportation Research, Innovation, Development and Education (STRIDE) Center, Final Report, August 2015.
9. Elefteriadou, L., **A. Kondyli,** and B. St. George. "Estimation of Capacities on Florida Freeways". Prepared for FDOT, Final Report, September 2014.
10. Elefteriadou, L., **A. Kondyli,** and B. St. George. "Comparison of Methods for Measuring Travel Time at Florida Freeways and Arterials". Prepared for FDOT, Final Report, July 2014.
11. Yin, Y., L. Elefteriadou, Z. Song, N. Shirmohammadi, G. Carrick, and **A. Kondyli.** "Lifting HOV/HOT Lane Eligibility and Shoulder Use Restrictions for Traffic Incident Management". Prepared for FDOT, Final Report, December 2013.
12. Antoniou, C., **A. Kondyli,** and E., Gyftodimos. "Investigation of Performance Characteristics of On-line Calibration Algorithms for Dynamic Traffic Assignment of Large Scale Networks". Prepared for the National Technical University of Athens, Final Report, January 2013.

13. Elefteriadou, L., **A. Kondyli**, F. Hall, B. Persaud, L. Jacobson, and S. Washburn. "Proactive Ramp Management Under The Threat of Freeway-Flow Breakdown". Prepared for the National Cooperative Highway Research Program 3-87, Final Report, December 2009.
14. Elefteriadou, L., D. Arguea, **A. Kondyli**, K. Heaslip, "Impact of Trucks on Arterial LOS and Freeway Work Zone Capacity - Part B: Freeway Work Zone Capacity". Prepared for the FDOT, Final Report, July 2007.
15. Washburn S., and **A. Kondyli**, "Development of Guidelines for Driveway Location and Median Configuration in the Vicinity of Interchanges". Prepared for the FDOT, Final Report, March 2006.
16. Elefteriadou, L., C. Fang, R. Roess, E. Prassas, J. Yeon, X. Cui, **A. Kondyli**, H. Wang, J. Mason, "Capacity and Quality of Service of Interchange Ramp Terminals". NCHRP 3-60, Final Report, March 2005.

PRESENTATIONS

1. **Kondyli, A.** "Improving the Accuracy and Applicability of Kansas Traffic Data". **Invited talk:** Kansas Department of Transportation – Research Program Council Meeting, Topeka, KS, September 2018.
2. **Kondyli, A.** "Towards Realistic Models of Driver Behavior". **Invited talk:** Department of Civil and Environmental Engineering, University of Arkansas, Fayetteville, AR, September 2018.
3. Hale, D. K., Button, L., Argote, J., Joshi, C., Zhang, X., **Kondyli, A.**, James, R., Bared, J. "Development of a Microsimulation Car-Following Model for Narrow Freeway Lanes." Traffic Flow and Characteristics Committee (TRB AHB-45) Summer Meeting, Woods Hole, MA, August, 2018.
4. **Kondyli, A.** "Towards Realistic Models of Driver Behavior". **Invited talk:** IVT Group, ETH Zürich, Switzerland, January 2018.
5. **Kondyli, A.** "Ramp Metering and the Probability of Breakdown". Invited talk: School of Civil Engineering, National Technical University of Athens, Greece, December 2017.
6. **Kondyli, A.** "Self-Driving Vehicles". **Invited talk:** University of Kansas, Red Hot Research Series - People and AI: Promise or Peril? Lawrence, KS, May 2017.
7. **Kondyli, A.** "Connected and Automated Vehicles". **Invited talk:** University of Kansas, Red Hot Research Series – Smart Cities, Lawrence, KS, September 2016.
8. **Kondyli, A.** "HCM 6th Edition. What's New in the HCM?" **Invited talk:** Kansas City Institute of Transportation Engineers (KCITE), Overland Park, KS, July 2016.
9. **Kondyli, A.**, B. Schroeder, K. Lemke. "HCM 6th Edition – Freeway Facilities Workshop". International Symposium on Enhancing Highway Performance (ISEHP) 2016, Berlin, June 2016.
10. Sajjadi, S., **A. Kondyli**, K. Bright, "Driver Behavior Model Calibration at the Basic Managed Lanes Segments – South Florida Case Study". 15th International Conference on Managed Lanes, Miami, FL, May 2016.
11. Ho, A., E. Sutley, **A. Kondyli**, B. Johnson, "Building an Adaptive System for Multiple Policy Goals in Cities". In Proceedings of the IEEE Smart Cities Workshop, Kansas City, MO, February 2016.

12. **Kondyli, A.**, A. Barmpoutis, V. Sisiopiku, “Safety-Related Analysis of the 3D Driver Body Posture Using Naturalistic Data”. **Invited talk:** University of Iowa – National Advanced Driving Simulator (NADS), Iowa City, IA, February 2016.

13. **Kondyli, A.**, A. Barmpoutis, and V. Sisiopiku. “A 3D Experimental Framework for Exploring Drivers’ Body Activity Using Infrared Depth Sensors”. 2nd Annual Postdoctoral Symposium of the University of Florida, Gainesville, FL, April 2014.
14. **Kondyli, A.**, A. Barmpoutis, and V. Sisiopiku. “Investigation of the Effect of Drivers' Body Motion on Traffic Safety”. 2nd Annual UTC Conference for the Southeastern Region, Atlanta, GA, March 2014.
15. Darroudi, A., M. Hadi, Y. Xiao, C. Letter, **A. Kondyli**, and L. Elefteriadou. “Adaptive Variable Speed Limit Strategy to Reduce Shockwave Upstream of Bottlenecks”. 2nd Annual UTC Conference for the Southeastern Region, Atlanta, GA, March 2014.
16. Letter, C., **A. Kondyli**, and L. Elefteriadou. “Incorporating the Probability of Breakdown for Ramp Metering and VSL Applications”. AHB20 Freeway Operations Committee of the Transportation Research Board Midyear Meeting, Atlanta, GA, June 2013.
17. **Kondyli, A.** “Driver Behavior at Freeway-Ramp Merging Areas”. 1st Annual Postdoctoral Symposium of the University of Florida, Gainesville, FL, April 2013.
18. Hadi, M., L. Elefteriadou, **A. Kondyli**, Y. Xia, C. Letter, and A. Darroudi. “Investigation of ATDM Strategies to Reduce the Probability of Breakdown”. 1st Annual UTC Conference for the Southeastern Region, Orlando, FL, April 2013.
19. **Kondyli, A.** “Safe Transport of Heavy Vehicles”. **Invited talk:** 1-Day training seminar for heavy vehicle drivers organized by Projectyou and the Greek Council for the Safe Transport of Dangerous Goods, Athens, December 4, 2011.
20. **Kondyli, A.** “Modeling Driver Behavior at Freeway Ramp Merges”. **Invited talk:** Webinar presentation invited by the Traffic Flow and Characteristics Committee (AHB-45) of the Transportation Research Board, September 30, 2011.
21. **Kondyli, A.** “How Well Does CORSIM Replicate the Process of Freeway-Flow Breakdown?” **Invited Speaker:** Webinar presentation invited by the Traffic Flow and Characteristics Committee (AHB-45) of the Transportation Research Board, May 6, 2011.
22. **Kondyli, A.** “Low-Cost High-Efficiency Measures for Improving Traffic and Parking Operations”. Conference on Transportation Issues of Municipalities of the Attica Region, Hellenic Institute of Transportation Engineers, Athens, Greece, February 9, 2011.
23. **Kondyli, A.** “Sensitivity Analysis of CORSIM and AIMSUN with Respect to Freeway Flow Breakdown”. **Invited Researcher/Speaker:** MULTITUDE Project Meeting, funded by the European Union COST Action TU0903, Naples, Italy, February 7-8, 2011.
24. **Kondyli, A.** “Road Safety for Young Drivers”. **Invited talk:** 2-day workshop on Road Safety organized by the Police Department of Naypaktos, Naypaktos, Greece, November 2010.
25. **Kondyli, A.** “Driver Behavior at Freeway-Ramp Merging Areas: Focus Group Findings”. 2nd Annual Student Conference. Center for Multimodal Solutions for Congestion Mitigation, University of Florida, Gainesville, FL, March 2009.
26. **Kondyli, A.** “Breakdown Probability Model at Freeway-Ramp Merges Based on Driver Behavior”. 88th Transportation Research Board Annual Meeting, Doctoral Student Research in Transportation Operations and Traffic Control, Washington, D.C., January 2009.

27. **Kondyli, A.** “Driver Behavior at Freeway-Ramp Merging Areas: Focus Group Findings” (*Best Student Poster Award*). ITS-TRANSP0 Conference, Orlando, FL, September 2008.
28. **Kondyli, A.** “Breakdown Probability Model at Freeway-Ramp Merges Based on Driver Behavior”. 1st Annual Student Conference. Center for Multimodal Solutions for Congestion Mitigation, University of Florida, Gainesville, FL, March 2008.

TEACHING ACTIVITY

| Course Number & Title | Sem/Year | # Enrolled | Evaluation |
|---|-------------|------------|------------|
| CE 480 Introduction to Transportation Engineering | Spring 2019 | 46 | 4.14/5 |
| E 781 Traffic Flow Characteristics | Spring 2019 | 9 | 4.0/5 |
| CE 895 Traffic Simulation Modeling and Analysis | Fall 2018 | 5 | 5.0/5 |
| CE 480 Introduction to Transportation Engineering | Spring 2018 | 38 | 4.21/5 |
| CE 781 Traffic Flow Characteristics | Fall 2017 | 9 | 4.59/5 |
| CE 480 Introduction to Transportation Engineering | Spring 2017 | 40 | 4.69/5 |
| CE 895 Traffic Simulation Modeling and Analysis | Spring 2017 | 6 | 4.33/5 |
| CE 881 Traffic Engineering Operations | Fall 2016 | 7 | 4.57/5 |
| CE 480 Introduction to Transportation Engineering | Spring 2016 | 38 | 4.12/5 |
| CE 240 Geomatics | Fall 2015 | 28 | 3.58/5 |
| CE 480 Introduction to Transportation Engineering | Fall 2014 | 28 | 3.81/5 |

STUDENT ADVISING

Undergraduate students

| | |
|-------------|-------------|
| Fall 2014 | 9 students |
| Spring 2015 | 9 students |
| Fall 2015 | 10 students |
| Spring 2016 | 10 students |
| Fall 2016 | 9 students |
| Spring 2017 | 8 students |
| Fall 2017 | 11 students |
| Spring 2018 | 12 students |
| Fall 2018 | 12 students |

Ph.D. students

1. Irtiza Khan – Spring 2022 (expected), TBD.
2. Punyaanek Srisurin – Spring 2020 (expected), A Simulation Model for CAVs.
3. Vishal Kummetha – Spring 2020 (expected), Incorporating Biobehavioral Architecture into Car-Following Models: A Driving Simulator Study.
4. Mohammadamin Asgharzadeh – Fall 2019 (expected), A Lane-Based Cell Transmission Model for Macroscopic Freeway Evaluation.

M.S. students

1. Georgios Chrysiopoulos – Fall 2019 (expected), A Car-Following Behavioral Framework for CV/AVs.

2. Akshay Patel – Fall 2019 (expected), Estimating Capacity Adjustment Factors for CAVs on Freeway Segments.
3. Abdulmajeed Alsharari – Spring 2019, Estimation of the Effect of Rain and Incidents on Freeway Capacity and Free-Flow Speed.
4. Agustin Guerra – Spring 2019, Modeling Discretionary Lane Changing Decisions for Connected Vehicles Based on Fuzzy Logic.
5. Mohammad Shehada – Spring 2018, Evaluation of Ramp Metering Algorithms Using Microsimulation.
6. Vishal Kummetha – Fall 2017, Analysis of the Effects of Adaptive Cruise Control (ACC) on Driver Behavior and Awareness Using a Driving Simulator.
7. Phani Gubbala – Spring 2017, Effect of On-Ramp Demand on Capacity at Merge Bottleneck Locations.

STUDENT AWARDS

1. Vishal Kummetha (Ph.D.) – Spring 2017, Spring 2018 Bert and Dorothy Steves Memorial Scholarship (\$1,200), Department of Civil, Environmental and Architectural Engineering, University of Kansas.
2. Mohammadamin Asgharzadeh (Ph.D.) – Spring 2018 Bert and Dorothy Steves Memorial Scholarship (\$1,100), Department of Civil, Environmental and Architectural Engineering, University of Kansas.
3. Adeyoyin Imam – Spring 2018 WTS International Sharon D. Banks Memorial Undergraduate Fellowship, Kansas City Chapter (\$1,000), CEAE, KU.

STUDENT SUPERVISING

1. Zeyad Dessouki (May 2019 – present) Civil, Environmental, and Architectural Engineering undergraduate student (junior), University of Kansas.
2. Caroline Gatti (September 2018 – May 2019) Civil, Environmental, and Architectural Engineering undergraduate student (senior), University of Kansas.
3. Adeyoyin Imam (September 2015 – May 2019): Civil Engineering Undergraduate student, University of Kansas.
4. Vishal Kummetha (January 2017 – present) Transportation Engineering PhD student, University of Kansas.
5. Mohammadamin Asgharzadeh (September 2016 – present): Transportation Engineering PhD student, University of Kansas.
6. Georgios Chrysikopoulos (January 2016 – present): Transportation Engineering PhD student, University of Kansas.
7. Mohammad Shehada (September 2015 – Spring 2018): Transportation Engineering MS student, University of Kansas.
8. Sai Yerradoddi (September 2016 – May 2017): Civil, Environmental, and Architectural Engineering undergraduate student (senior), University of Kansas.
9. Patricia Harumi Arakaki Mascarenhas (May 2015 – July 2015): Visiting Civil Engineering Undergraduate student, Wayne State University/Brazilian Scientific Mobility Program.
10. Phani Gubbala (January 2015 – May 2017): Transportation Engineering MS student, University of Kansas.

11. Shivraj Patil (January 2015 – May 2015): Transportation Engineering MS student, University of Kansas.
12. Zifeng Li (September 2014 – December 2014): Civil Engineering Undergraduate student, University of Kansas.

PROFESSIONAL ACTIVITIES

- **Member** of the Kansas Statewide AV/CV Task Force (since 2019)
- **Member** of the Institute of Transportation Engineers (ITE) (since 2017)
- **Associate Member** of the ASCE – T&DI Street and Highway Operations Committee (since 2016)
- **Associate Member** of the ASCE – T&DI Transportation Safety Committee (since 2016)
- **Chair** of the Freeways/Multilane Highways Subcommittee of the Highway Capacity & Quality of Service TRB Committee AHB40 (since 2014)
- **Associate Member** of American Society of Civil Engineers (ASCE) (since 2014)
- **Member** of the Women’s Transportation Seminar (WTS) International (since 2013)
- **Affiliate member** of the National Postdoctoral Association (NPA) (2013-2014)
- **Member** of the Highway Capacity and Quality of Service TRB Committee AHB40 (since 2016)
- **Substitute member** of the Management Committee of the COST Action TU0903 – MULTITUDE (Methods and tools for supporting the use calibration and validation of traffic simulation models) (2011-2013)
- **Member** of the Traffic and Parking Committee of the Hellenic Institute of Transportation Engineers (2010-2012)
- **Member** of the Hellenic Institute of Transportation Engineers (since 2009)
- **Member** of the Chi Epsilon Honor Society (since 2006)
- **Member** of Technical Chamber of Greece – Registered Rural and Surveying Engineer (since 2003)

SERVICE TO THE CEAE DEPARTMENT (KU)

- Graduate studies, member, CEAE, University of Kansas (since 2019).
- Sabbatical committee, member, CEAE, University of Kansas (2019-2020).
- KU STEM Analytics working group member, CEAE, University of Kansas (since 2017).
- Undergraduate recruiting committee member, CEAE, University of Kansas (since 2014).
- Undergraduate retention committee member, CEAE, University of Kansas (since 2015).
- Professional Development Series – Kansas City, March 2016.

SERVICE TO THE SCHOOL OF ENGINEERING (KU)

- Order of the Engineer Ceremony (December 2017).
- Fundamentals of Engineering Exam Review Series, Lecturer (2017)
- Interviewer for the Self Fellowship at the School of Engineering (2015, 2017, 2018, 2019).
- Panel member of the Academic Misconduct Hearing for H. An (April 2017).

SERVICE TO THE UNIVERSITY OF KANSAS

- Graduate Teaching Assistants Follow-Up Sessions “Teaching as a Grader”. KU Center for Teaching Excellence, September 2016.

REVIEW ACTIVITIES

Journal Reviews

- **Applied Ergonomics**
- **ASCE** – Journal of Transportation Engineering
- **CACIE** Journal
- **ICE Transport**
- **IEEE** – ITS Transactions
- **IET Intelligent Transport Systems**
- **Journal of Advanced Transportation**
- **Transportation Letters** – the International Journal of Transportation Research
- **Transportation Research Part C** – Emerging Technologies
- **Transportmetrica A** – Transport Science
- **Travel Behaviour and Society Journal**
- **ATS** – Advances in Transportation Studies
- **TRR** – Transportation Research Record Journal of the Transportation Research Board

Panel Reviews

- **Panel Member** for the National Defense Science and Engineering Graduate (NDSEG) Fellowship, from the Department of Defense and the American Society for Engineering Education (2016, 2017, 2018).

EDITOR ACTIVITIES

- **Editorial Board Member** for Transportation Letters – The International Journal of Transportation Research, Taylor and Francis Group (since 2019)
- **Guest Editor** for Special Issue in Journal of Traffic and Transportation Engineering (English Edition) on “Driver Behavior, Highway Capacity and Transportation Research” (2016).

CONFERENCE ACTIVITIES

- **Scientific Committee Member:** Road Safety and Simulation (RSS) Conference, Iowa City, October, 2019.
- **Paper Reviewer:** 2018 IEEE 21st International Conference on Intelligent Transportation Systems, Maui, Hawaii, November 2018.
- **Scientific Committee:** 8th International Congress on Transportation Research (ICTR), Thessaloniki, Greece, September 2017.
- **Session Chair:** International Symposium on Enhancing Highway Performance (ISEHP) 2016, Berlin, June 2016.
- **Session Chair:** 2nd International Conference on Connected Vehicles & Expo (ICCVE 2013), Las Vegas, NV, December 2013.
- **Organizing Committee:** Conference on Transportation Issues of Municipalities of the Attica Region, sponsored by the Hellenic Institute of Transportation Engineers, Athens, Greece, February, 2011.
- **Paper Reviewer:** 2015 IEEE 18th International Conference on Intelligent Transportation Systems, 2015.
- **Paper Reviewer:** ICTR 2013 – 6th International Congress in Transportation Research Conference, 2013.

- **Paper Reviewer:** ICCTP – 11th International Conference of Chinese Transportation Professionals, August 2011.
- **Paper Reviewer:** TRB – Annual Meeting (Traffic Flow Theory and Characteristics Committee, Highway Capacity and Quality of Service Committee, Freeway Operations Committee).