

Achilleas Kourtellis, Ph.D.

Assistant Program Director and
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 University of South Florida

Contact Information

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EDUCATION

Formal

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| 2007 – 2009 | Ph.D. in Civil Engineering with concentration in Transportation , University of South Florida, USA |
| 2004 – 2006 | Master of Civil Engineering with concentration in Transportation , University of South Florida, USA |
| 2002 – 2004 | Bachelor's in Civil Engineering with concentration in Transportation , University of South Florida, USA |
| 1997 – 2000 | Diploma of Civil Engineering Technician , Higher Technical Institute, Nicosia, Cyprus |

RESEARCH INTERESTS

- Driver behavior changes in response to telematics devices
- Intelligent transportation systems implementation
- Vehicle crash avoidance systems
- Data collection utilizing controlled driving tests
- Pedestrian, bicycle and motorcycle safety
- Connected vehicles and automated vehicle research
- Naturalistic studies

RESEARCH EXPERIENCE

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|--------------|---|
| 2020-current | “Corridor-Wide Surveillance Using Unmanned Aircraft Systems”, funded by NICR. (Co-PI) |
| 2021-current | “Utilizing AI with Vision-Based Systems for Monitoring Trespassing – Best Practices”, funded by FTA. (PI) |
| 2020-current | “Identifying Sources and Risks on Cybersecurity to Connected Transportation Infrastructures”, funded by FDOT. (Co-PI) |
| 2020-current | “Pedestrian and Bicycle Crash Typing and Analysis”, funded by FDOT. (Co-PI) |
| 2017-current | “Statewide Pedestrian & Bicyclist Focus Education” funded by FDOT and NHTSA. (Co-PI) |
| 2019-current | “Mitigation for Trespasser and Suicide Fatalities and Injuries” (Technical Support for FTA Transit Safety Standards Group), funded by FTA. (Co-PI) |
| 2019-current | “Development of Low Voltage/Extended Runtime Signalized Intersection Using Backup Power after the Loss of Utility Power due to Hurricanes”, funded by FDOT. (Co-PI) |
| 2016-current | “Connected Vehicle Implementation Pilot (Tampa)” funded by USDOT. (Co-PI) |
| 2017-2019 | “Understanding Interactions Between Drivers and Pedestrian Features at Signalized Intersections-Phase 3”, funded by FDOT and FHWA. (Co-PI) |
| 2017-2019 | “Development of a Robust Automated Pedestrian Detection System for Signalized Intersections” funded by FDOT. (Co-PI) |
| 2017-2019 | “Campus Automated Shuttle Service Deployment Initiative” funded by NCTR, (Co-PI). |
| 2017-2019 | “Smartphone Connected Bicycle Prototype” funded by NCTR. (PI) |
| 2013-2017 | Co-Managed the “Naturalistic Bicycling Behavior Pilot Study” funded by FDOT. (Co-PI) |
| 2016-2017 | “Pedestrian and Bicycle Crash Typing” project funded by FDOT. (PI) |
| 2015-2016 | Co-Managed the “Comprehensive Pedestrian and Bicycle Safety Program” grant funded by FDOT. (Co-PI) |

2015-2016	Managed the “Pedestrian and Bicycle Program Evaluation and Data Collection” grant funded by FDOT. (PI)
2014-2015	Worked on the “Comprehensive Pedestrian and Bicycle Safety Program” grant funded by FDOT. (Co-PI)
2014-2015	Managed the Managed the “Pedestrian and Bicycle Program Evaluation and Data Collection” grant funded by FDOT. (PI)
2013-2014	Managed the “Pedestrian and Bicycle Program Evaluation and Data Collection” grant funded by FDOT. (PI)
2013-2014	Worked on the “Comprehensive Pedestrian and Bicycle Safety Program” grant funded by FDOT. (Co-PI)
2012-2013	Managed the “Pedestrian and Bicycle Program Evaluation and Data Collection” grant funded by FDOT. (PI)
2012-2013	Worked on the “Comprehensive Pedestrian Safety Program” grant funded by FDOT. (Co-PI)
2012-2013	Managed the “Program Evaluation and Ped/Bike Safety Focused Initiative” grants funded by FDOT. (Co-PI)
2011-2012	Worked on “Evaluation of Camera-Based Systems to Reduce Transit Bus Side Collisions-Phase II”, a project funded by the National Center for Transit Research and FDOT.
2010-2014	Managed one of the sites for the” Naturalistic Driving Study” sponsored by the Strategic Highway Research Program 2 of the Transportation Research Board.
2009-2012	Worked on the “Comprehensive Motorcycle Safety Program” for FDOT.
2010-2011	Worked on “FDOT District 7 Pedestrian Safety Action Plan/NHTSA Grant Evaluation”
2009-2010	Worked on “ITS technology Enhancements” for the Florida Turnpike Enterprise.
2008-2009	Worked on “Evaluation of Camera-Based Systems to Reduce Transit Bus Side Collisions-Phase I”, a project for the National Center for Transit Research.
2006 – 2008	Contributed in research proposals on evaluation of effectiveness of camera-based systems for crash avoidance. Worked on “Evaluation of Power Line Motor Carrier Rear Vision System”, project funded by FDOT. Also helped with data collection on “Signal Technology Applications to Address Traffic Congestion on US 301 in Starke, Florida”, project funded by FDOT.
2004 – 2006	Worked on “Pedestrian Crossing Safety”, and “Alternative Measures of Transit Share”, projects funded by FDOT.

TEACHING EXPERIENCE

- Transportation Engineering I at USF.
- Transportation Safety at USF.
- Transportation and Society at USF.

PUBLICATIONS

1. C. Xuehao, P.S. Lin, **A. Kourtellis**. “Safety Effects and Guideline Development for Uncontrolled Midblock Crosswalks”, 2008 ITE Technical Conference and Exhibit, April 2008.
2. C. Xuehao, M. Guttenplan, **A. Kourtellis**. “Considering Usage and Safety Effects in Guidelines for Uncontrolled Midblock Crosswalks”, 86th TRB Annual Meeting, Washington D.C., January 2007.
3. P.S. Lin, **A. Kourtellis**, S. Rai. “Evaluation of Motor Carrier Rear Vision Systems”, 14th World Congress on ITS, Beijing, China, October 2007.
4. **A. Kourtellis**, P.S. Lin, C. Lee, P. Hsu, J. Zhao. “Comparison of Available Rear Vision Systems for Heavy Trucks”, 10th Conference on Applications for Advanced Technologies in Transportation, Athens, Greece, May 2008.

5. **Kourtellis A.**, C. Lee, P.S. Lin, J. Zhao, P. Hsu, J. Lu. "Evaluation of the Effectiveness of Rear-View Camera Systems as a Countermeasure for Truck Backing Crashes: Lessons Learned from Actual Field Deployment", 88th TRB Annual Meeting, Washington D.C., January 2009.
6. Lee C., **A. Kourtellis**, P.S. Lin, P. Hsu. "Evaluation of the Effectiveness of Rearview Video Systems (RVS) as a Countermeasure for Truck Backing Crashes with a Controlled Test", 89th TRB Annual Meeting, Washington D.C., January 2010.
7. **Kourtellis A.**, P.S. Lin, C. Lee. "Evaluation of Camera-Based Systems to Reduce Bus Side Collisions", 90th TRB Annual Meeting, Washington D.C., January 2011.
8. **A. Kourtellis**, P.S. Lin, M. Gawade, H. Zhu. "Evaluation of Pedestrian Safety Action Plan in Tampa Bay", ITE Annual Meeting and Exhibit, St. Louis MI, August 2011.
9. Lin P.S., **A. Kourtellis**, C. Lee. "Evaluation of Camera Based System to Reduce Bus Side Collisions: Driver Survey", 18th World Congress on Intelligent Transport Systems, Orlando FL, October 2011.
10. **Kourtellis A.**, P-S. Lin, Gawade Makarand. "Measuring Unsafe Pedestrian Behavior Using Observational Data", 92th TRB Annual Meeting, Washington DC, January 2013.
11. Elmehraz N., S. Katkooi, **A. Kourtellis**, P-S. Lin. "Prototyping of a Portable Data Logging Embedded System for Naturalistic Motorcycle Study". 2013 International Conference on Connected Vehicles and Expo (ICCVE), December 2013.
12. M. Gawade, **A. Kourtellis** and P.S. Lin. "Multivariate Analysis on Factors Influencing Pedestrian and Bicycle Safety", 93rd TRB Annual Meeting, Washington DC, January 2014.
13. P-S. Lin, and **A. Kourtellis**. "Planning and Design for Prevention of Incorrect Turns onto Highway-Rail Grade Crossings", International Chinese Transportation Professionals Association (ICTPA) 27th Conference, Beijing, China, May 2014.
14. **A. Kourtellis**, L. Cruse and P.S. Lin. "Do As I Say Not As I Do: Observed Compliance vs. Stated Understanding of Pedestrian Crossing Laws", 94th TRB Annual Meeting, Washington DC, January 2015.
15. P.S. Lin, **A. Kourtellis**. "Understanding of Safety Impact and Potential Causes of Distracted Walking and Biking", International Chinese Transportation Professionals Association (ICTPA) 28th Conference, Los Angeles, CA, May 2015.
16. **A. Kourtellis**, L. Cruse and P.S. Lin. "Do As I Say Not As I Do: Observed Compliance vs. Stated Understanding of Pedestrian Crossing Laws", Transportation Research Journal (#TBD), Washington DC, January 2015.
17. Rui Guo, Chunfu Xin, Pei-Sung Lin, **Achilleas Kourtellis**. "Mixed-Effects Logistic Model to Address Demographics and Neighborhood Environment on Pedestrian Injury Severity", Transportation Research Record, Washington DC, January 2017.
18. Pei-Sung Lin, Cong Chen, **Achilleas Kourtellis**, Zhenyu Wang, Rui Guo, Zhao Zhang. "Investigating Driver Compliance with Pedestrian Features at Signalized Intersections: SHRP 2 Naturalistic Driving Study Data Analysis", Transportation Research Board 2018 Annual Meeting Compendium
19. Sisinnio Concas, **Achilleas Kourtellis**, Steve Reich. "Planning the Performance Evaluation and Assessment of the Tampa CV Pilot Deployment: Opportunities and Challenges", Transportation Research Board 2018 Annual Meeting Compendium, Washington DC, January 2018.
20. Pei-Sung Lin, Achilleas Kourtellis, Cong Chen, Trena McPherson and Peter Hsu. "Naturalistic Bicycling Behavior Pilot Study", the 12th Asia Pacific Transportation Development Conference & the 31st Annual Conference of International Chinese Transportation Professionals, Guangzhou, China, June 14-17, 2018.
21. Invited Presentation: "CV Pilot Status Update", TRB Workshop, Washington DC, January 13, 2019.
22. Pei-Sung Lin, Nikhil Menon, Cong Chen and Achilleas Kourtellis. Assessment of a Week-Long Campus Automated Shuttle Demonstration in Low-Speed Environments. In Conference Proceedings for the 2020 Resilience and Sustainable Transportation Systems Conference. Shanghai, China, May 27-30, 2020 (Conference Cancelled due to COVID-19).

PROFESSIONAL ACTIVITIES

Service

- Reviewer for the Journal of Intelligent and Robotic Systems
- Reviewer for the Journal of Transportation Safety & Security
- Reviewer for the TRB Annual Meeting
- Friend of ANF10 TRB Pedestrian Committee
- Friend of ANF 20TRB Bicycle Transportation Committee
- Member of TRB Bicycle and Pedestrian Data Subcommittee
- Member of TRB Pedestrian Research Subcommittee
- Member of TRB Bicycle Research Subcommittee

Memberships

- Florida Board of Professional Engineers E.I.
- Cyprus Scientific and Technical Chamber - Registered Civil Engineer
- Member of American Society of Civil Engineers (ASCE)
- Member of Institute of Transportation Engineers (ITE), Tampa Bay ITE and Florida Section ITE