

Curriculum Vitae

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Professor

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EDUCATION

Ph.D. in Transportation Engineering, [University of South Florida](#), Tampa, Florida, June, 2001. Dissertation: *Operational Effects of U-turns as Alternative to Direct Left Turns from Driveways*.

Ph.D. in Highway and Railway Engineering, with a concentration in Transportation and Environment, [Beijing Jiao-Tong University](#), Beijing, China, June, 1998. Dissertation: *Optimal Selection of a Proposed Road Alignment Based on Environmental Impacts*.

BSCE, [Beijing Jiao-Tong University](#), Beijing, China, 1993

AREAS OF RESEARCH

Traffic Operations and Safety
Operational Effects of Geometrics
Highway and Traffic Engineering
Access Management
Pedestrian and Bicycle Safety
Intelligent Transportation Systems

PROFESSIONAL REGISTRATION

PE, Florida (60311), 2003

EXPERIENCE/RESEARCH PROJECTS

Professor, Department of Civil Engineering, Auburn University, 2018 – Present;
Associate Professor, Department of Civil Engineering, Auburn University, 2013 – 2018

1. NCHRP 03-135 Wrong-Way Driving Solutions, Policy, and Guidance, Funded by Transportation Research Board (TRB). (PI, \$600,000)

2. Identify Communication Methods for Severely Intoxicated Drivers to Develop Effective Engineering Countermeasures for Wrong-Way Driving, Funded by Caltran. (PI, \$150,000)
3. A Study of Work Zone Mobility Using NDS Data, Phase II, Funded by University Florida. (PI, \$56,101)
4. A Study of Work Zone Mobility Using NDS Data, Funded by University Florida. (PI, \$50,000)
5. Field Implementation and Evaluation of Low-Cost Safety Countermeasures to Deter Wrong-Way Driving, Funded by ALDOT. (PI, \$150,000)
6. Application of the Naturalistic Driving Study (NDS) Dataset to Improve Design Guides and Associated Practices, Funded by ALDOT. (PI, \$150,000)
7. Development of Guidance for Unsignalized Intersection Type Configuration on Rural Divided Highways, Funded by ALDOT. (Co-PI, \$111,095)
8. Field Implementation of Directional Rumble Strips for Reducing Wrong-Way Driving, Funded by the University of Minnesota for Regional UTC. (Co-PI, \$85,000)
9. ALDOT Wrong-Way Training Program, Funded by Sain Associates, (PI, \$20,000)
10. Regional UTC Work Zone Mobility Project, funded by the Region 4 UTC. (Co-PI, \$166,000)
11. Application of Advanced Simulation Tools for Optimizing Signal Timing for Local Transportation Agencies. (PI, \$35,000)
12. Safety Effects of Median Cable and Roadside Guardrails, Funded by the American Traffic Safety Services Association (ATSSA). (PI, \$25,000)
13. Development of Wrong-Way Driving Prediction Models, ALDOT. (PI, \$75,000)
14. Innovative Safety Research Based on Naturalistic Drive Study (NDS) Dataset. Funded by AU IGP. (PI, \$90,000)
15. ITS Business Opportunity Related to ITS, funded by ATSSA. (PI, \$85,000)
16. Establishing Procedures and Guidelines for Pedestrian Treatments at Uncontrolled Locations, IDOT. (Co-PI, \$175,000)
17. Directional Rumble Strips for Reducing Wrong-Way Driving, Funded by the Regional 5 University Transportation Center (UTC). (Co-PI, \$195,000)
18. A Study of Wrong-way Driving Crashes in Alabama funded by ALDOT. (PI, \$150,000)
19. Preventing Vehicle Departure from Roadways, funded by ATSSA. (PI, 27,600)
20. Emerging Safety Countermeasures for Wrong-Way Driving funded by ATSSA. (PI, \$25,500)
21. Evaluation of Red Light Cameras Safety Improvement Program in Alabama, funded by HRC. (PI, \$35,000)
22. Effects of Photo Enforcement Technologies on Traffic Operations and Safety, funded by OVPR of Auburn University. (PI, \$3,000)
23. Investigating of Contributing Factors Regarding Wrong-Way Driving on Freeways, Phase II, funded by the IDOT/ICT. (PI, \$133,000)

Assistant/Associate Professor, Department of Civil Engineering, Southern Illinois University Edwardsville, 2008 – 2013

24. Investigating of Contributing Factors Regarding Wrong-Way Driving on Freeways, Phase II, funded by the IDOT/ICT. (PI, \$244,000)

25. Investigation of Methods & Approaches for Collecting & Recording Highway Inventory Data, funded by IDOT/ICT. (PI, \$215,000)
26. Highway Incident Management Operational & Training Guide, Phase 2, funded by the IDOT/ICT. (PI, \$300,000)
27. Investigation of Contributing Factors Regarding Wrong-way Driving on Freeways, funded by the IDOT and ICT. (PI, \$230,000)
28. Development of a Highway Incident Management Operational and Training Guide, funded by the IDOT and ICT. (PI, \$136,000).
29. The Effects of Roadway Lighting Levels on Traffic and Pedestrian Safety, funded by SIUE for Summer Research Fellowship. (PI, \$4,000)
30. Development of Traffic Simulation and Animation Modules for Transportation Engineering Undergraduate Courses, funded by SIUE Excellence in Undergraduate Education (EUE) Program. (PI, \$8,600)
31. Civil Engineering Traffic Signal Education, funded by SIUE Excellence in Undergraduate Education (EUE) Program. (Co-PI, \$8,700)

Senior Research Associate, Center for Urban Transportation Research (CUTR), University of South Florida, 2003–2008

32. Safe Routes to School Program in Pasco County, funded by the Florida Department of Transportation (FDOT) District 7. (PI, \$30,000)
33. A Study on the Safety of Left-Side Off-Ramps on Freeways, funded by the Florida Department of Transportation (FDOT) District 7. (PI, \$15,000)
34. Safe Routes to School Program in Pinellas County, funded by the Florida Department of Transportation (FDOT) District 7. (PI, \$30,000)
35. Development of MOT Training Program for Incident Responders in Florida, funded by the FDOT Central Office. (Co-PI, \$185,000)
36. Signal Technology Application to Address Traffic Congestion on US 301 in Starke, Florida, funded by the FDOT Central Office. (Co-PI, \$300,000)
37. Evaluation of Safe Routes to School Program, funded by the FDOT District 7. (PI, \$35,000)
38. Documenting Improved Mobility Techniques on SIS and TRIP Facilities, funded by the FDOT Central Office. (\$75,000)
39. Street Lighting Analysis- Phase II: Street Lighting Data Collection and Evaluation, funded by the FDOT District 7. (PI, \$40,000)
40. Street Lighting Analysis- Phase I: Development of a Mobile Lighting Measurement System, funded by the Florida Department of Transportation, District 7. (PI, \$35,000)
41. US 19 Pedestrian Safety Study, funded by the FDOT District 7. (PI, \$18,000)
42. Moving the Bus Back Into Traffic Safely-Signage and Lighting Configuration (Phase I), funded by the FDOT Central Office. (PI, \$75,000)
43. Evaluation of the Drive 4 Life Campaign- A Before-and-After Safety Study, funded by the FDOT District 7. (Co-PI, \$14,000)
44. Development of Revised Methodology for Collecting Origin-Destination Data, funded by the FDOT Central Office. (Co-PI, \$50,000)
45. Cost-and-Benefit Analysis of Road Ranger Program in Florida, funded by the FDOT Central office. (Co-PI, \$75,000)

46. Incident Management Team and Resource Development, funded by the FDOT Central Office. (Co-PI, \$300,000)
47. The Costs-and-Benefits of Strategic Acquisition of Limited Access Right-of-Way at Freeway Interchange Areas, funded by the FDOT Central Office. (\$125,000)
48. Traffic Incident Management in Sarasota County, funded by the FDOT Central Office. (Co-PI, \$30,000)
49. Analysis of Traffic Operations at Collins Avenue (SR A1A) and 193rd Street, funded by Miami-Dade Transit. (Co-PI, \$9,000)

**Transportation Engineer, Parsons Brinckerhoff, Inc,
5405 West Cypress Street Suite 300, Tampa, FL 33607, 2001- 2003**

50. I-75 PD&E Traffic Study (From Fowler Ave. to CR 54), FDOT District 7, Tampa, FL.
51. I-4/Memorial Interchange Operational Analysis Report (IOAR), Polk County, Florida.
52. Interstate-4 (I-4)/U.S. 27 Interchange Operational Analysis Report (IOAR), Polk County, Florida.
53. Victor Posner City Center Traffic Impact Study, Polk County, Florida.
54. SR 70 Traffic Operations Analysis, Okeechobee County, Florida.
55. I-4/Kathleen Interchange Design Analysis, Polk County, Florida.
56. John's Pass Bridge Traffic Technical Memorandum, Pinellas County, Florida.
57. District Wide Access Management Support Services, FDOT District 1.
58. U.S. 98 Corridor Access Management Plan, Lakeland, Florida.
59. Determination of Access Management Classification for the SR 540 Extension to US 17, the FDOT District 1.

**Research Assistant, Center for Urban Transportation Research (CUTR),
University of South Florida, 1998- 2001**

60. Operational and Safety Effects of Access Management Techniques on Roadways, Funded by the FDOT. (\$175,000)

**Research Assistant, Department of Civil and Environmental Engineering, Beijing
Jiao-Tong University, Beijing, China, September 1993 – July 1998**

61. Responsible for developing a GIS-based tool to quickly analyze the environmental impacts of proposed road alignments.

PUBLICATIONS

Books and Book Chapters Published

1. Zhou H., and MD Atiquzzaman, "Wrong-Way Driving on Motorways." Book Chapter in Encyclopedia of Transportation, 2019.
2. Zhou H., MD Atiquzzaman, R. Baireddy, and C. Moore. "Advanced Technology for Preventing Work Zone Intrusions." Published by American Traffic Safety Services Association (ATSSA), January 2018

3. Zhou H., R. Baireddy, Y. Song, and O. Howard. "Safety Benefits of Median Barrier and Roadside Guardrail." Published by American Traffic Safety Services Association (ATSSA), January 2018.
4. Jalayer, M., Zhou, H., and Das, S. "Exploratory Analysis of Run-Off-Road Crash Patterns." Data Analytics Applications for Smart Cities, Taylor and Francis Group, 2018.
5. Zhou H., M. Pour-Rouholamin*, A. MD*, A. Shacklett*, B. Zhang*, F. Baratian-Ghorghi*, J. Wang*, D. Xu*, R. Baireddy*, R. Cofield. "ATSSA Member Business Opportunities Related to Connected and Automated Vehicles," Published by the American Traffic Safety Services Association (ATSSA), December 2016.
6. Zhou H., M. Pour-Rouholamin*, A. MD*, A. Shacklett*, B. Zhang*, F. Baratian-Ghorghi*, J. Wang*, D. Xu*, R. Baireddy*, R. Cofield. "ATSSA Member Business Opportunities Related to Connected and Automated Vehicles," Published by the American Traffic Safety Services Association (ATSSA), December 2016.

Journal Articles (Note: * refers to student authors)

1. Atiquezzaman MD*, and H. Zhou (2020), "Modeling the Risk of Wrong-Way Driving at the Exit Ramp Terminals." Accepted for Publication by Transportation Research Record.
2. Xu D*, H. Zhou, and C. Xue* (2019), "Interchange Deceleration Lane Design Based on Naturalistic Driving Speeds and Deceleration Rates." Transportation Research Circular E-C243.
3. Zhang B.*, and H. Zhou (2019). "Access Control Techniques to Mitigate Wrong-Way Driving (WWD) Activities on Multilane Divided Highways — Case Studies in Alabama." Transportation Research Record: Journal of the Transportation Research Board.
4. Jalayer, M.*, M. O'Connell, H. Zhou, P. Szary, and S. Das (2019). "Application of Unmanned Aerial Vehicle to Inspect and Inventory Interchange Assets to Mitigate Wrong-Way Entries" Accepted for publication by the *ITE Journal*.
5. Wu J., P. Liu, X. Qin, H. Zhou, and Z. Yang (2019). "Developing an Actuated Signal Control Strategy to Improve the Operations of Contraflow Left-turn Lane Design at Signalized Intersections." Transportation Research Part C.
7. Xue C.*, H. Zhou, D. Xu*, and P. Liu (2019). "Field Verification of Directional Rumble Strips to Deter Wrong-Way Freeway Driving." Journal of Transportation Engineering, Part A: Systems/Volume 145 Issue 8.
8. Jalayer M.*, Shabanpour R., Pour-Rouholamin M.*, Golshani N., and H. Zhou (2018). "Wrong-Way Driving Crashes: A Random-Parameters Ordered Probit Analysis of Injury Severity" *Accident Analysis and Prevention*, Volume 117, Pages 128-135.
9. Wang J.*, and H. Zhou (2018). "Using Naturalistic Driving Study Data to Evaluate the Effects of Intersection Balance on Driver Behavior at Partial Cloverleaf Interchange Terminals." Accepted for publication by the Transportation Research Record: Journal of the Transportation Research Board.
10. Baireddy R.*, H. Zhou, and M. Jalayer* (2018). "Multiple Correspondence Analysis of Pedestrian Crashes in Rural Illinois." Accepted for publication by the Transportation Research Record: Journal of the Transportation Research Board.
11. MD Atiquezzaman*, and H. Zhou (2018). "Modeling the Risk of Wrong-Way Driving

Entry at the Exit Ramp Terminals of Full Diamond Interchanges.” Accepted for Publication by the Transportation Research Record: Journal of the Transportation Research Board.

12. Yang L. *, H. Zhou and L. Zhu (2018). “New Concept Design of Directional Rumble Strips for Deterring Wrong-Way Freeway Entries.” *Journal of Transportation Engineering, Part A: Systems (ASCE)*.
13. Jalayer M. *, M. Pour-Rouholamin *, and H. Zhou (2018). “Wrong-way Driving Crashes: A Multiple Correspondence Approach to Identify Contributing Factors.” *Journal of Traffic Injury Prevention*, Vol. 19, No. 1, PP: 35-41.
14. Bao J., P. Liu, X. Qin, and H. Zhou (2018). “Understanding the Effects of Trip Patterns on Spatially Aggregated Crashes with Large-scale Taxi GPS Data,” *Accident Analysis and Prevention* 120:281-294.
15. Pour-Rouholamin, M. *, and H. Zhou (2017). “Single-Vehicle Crashes on Rural Two-Lane Highways and Injury Severity: Does the Age Matter?” *Journal of Geotechnical and Transportation Engineering (in press)*. 3(1), pp. 1-9.
16. Jalayer M. *, and H. Zhou (2017). “A Multiple Correspondence Analysis of At-Fault Motorcycle-Involved Crashes in Alabama.” *Journal of Advanced Transportation*, Vol. 50, PP: 2089-2099.
17. Pour-Rouholamin M. *, M. Jalayer*, and H. Zhou (2017). “Modeling Single-Vehicle, Single Rider Motorcycle Crash Injury Severity: An Ordinal Logistic Regression Approach.” *International Journal of Urban Sciences*, Vol. 21, No. 3, PP: 344-363.
18. Li X., F. Guo, H. Kuang, and H. Zhou (2017). “Effect of Psychological Tension on Pedestrian Counter Flow via and Extended Cost Potential Field Cellular Automaton Model.” *Physica A* 487 (2017) 47-57.
19. Baratian-Ghorghi F. *, H. Zhou, and A. Franco-Watkins (2017). “Effects of Red Light Cameras on Driver’s Stop/Go Decision: Assessing the Green Extension Hypothesis.” *Transportation Research Part F: Traffic Psychology and Behaviour*, Vol 46(A), pp.87-95.
20. Baratian-Ghorghi F. *, and H. Zhou (2017). “Traffic Control Devices for Deterring Wrong-Way Driving: Historical Evolution and Current Practice.” *Journal of Traffic and Transportation Engineering* (<https://doi.org/10.1016/j.jtte.2016.07.004>).
21. Wang J. *, H. Zhou, and Y. Zhang (2017). “Improve Sight Distance at Signalized Ramp Terminals of Partial Cloverleaf Interchanges to Deter Wrong-Way Entries.” *ASCE Journal of Transportation Engineering, Part A: Systems*, 143 (6): 04017017.
22. Wang J. * and H. Zhou (2017). “In-Depth Investigation of Wrong-Way Crashes on Divided Highways in Alabama Using Haddon Matrix and Field Observations.” *Journal of Transportation Research Board*, No.2618, 2017, pp.8-26.
23. Pour-Rouholamin M. *, M. Jalayer*, and H. Zhou (2017). “Modeling Single-vehicle, Single-rider Motorcycle Crash Injury Severity: An Ordinal Logistic Regression Approach.” *International Journal of Urban Sciences*, pp: 1-20. (<http://www.tandfonline.com/doi/full/10.1080/12265934.2017.131180>)
24. Jalayer M. *, and H. Zhou (2016). “Evaluating the Safety Risk of Roadside Features for Rural Two-Lane Roads using Reliability Analysis.” *Journal of Accident Analysis & Prevention*. Vol. 93, PP: 101-112.

25. Jalayer M.*, H. Zhou, and B. Zhang* (2016). "Evaluation of Navigation Performances of GPS Devices near Interchange Area Pertaining to Wrong-way Driving." *Journal of Traffic and Transportation Engineering*.
26. Ghasemi S. H., Jalayer, M.*, Pour-Rouholamin M.*, Nowak, A. S., and H. Zhou (2016). "State-of-The-Art Model to Evaluate Space Headway Based on Reliability Analysis." *Journal of Transportation Engineering (ASCE)*.
27. Jalayer, M., and H. Zhou (2016). "Overview of Safety Countermeasures for Roadway Departure Crashes." *ITE Journal*. Vol 86, No. 2, PP: 39-46.
28. Pour-Rouholamin M.*, and H. Zhou (2016). "Analysis of Driver Injury Severity in Wrong-Way Driving Crashes on Controlled-Access Highways." *Accident Analysis & Prevention*, 94(2016), pp. 80-88.
29. Pour-Rouholamin M.*, and H. Zhou (2016). "Investigating the Risk Factors Associated with Pedestrian Injury Severity in Illinois." *Journal of Safety Research*, 57(2016), pp. 9-17.
30. Pour-Rouholamin M.*, H. Zhou, B. Zhang, and R. Turochy (2016). "Comprehensive Analysis of Wrong-Way Driving Crashes on Alabama Interstates." Forthcoming in *Transportation Research Record: Journal of Transportation Research Board*.
31. Baratian-Ghorghi F.*, H. Zhou, and W.C. Zech (2016). "Red-Light Running Traffic Violations: A Novel Time-based Method for Determining a Fine Structure." *Transportation Research Part A: Policy and Practice* 93, 55-65.
32. Zhou H., H. Chen, and F. Baratian-Ghorghi* (2016). "Prediction of Intermittent Sight Distance Obstruction at Unsignalized Intersections with Conventional Right-turn Lane." *Transportation Safety & Security*.
33. Yang L.*, H. Zhou, L. Zhu, and H. Qu* (2016). "Operational Effects of Transverse Rumble Strips on Approaches to High-Speed Intersections." *Transportation Research Record: Journal of the Transportation Research Board*.
34. Baratian Ghorghi F.*, H. Zhou, and I. Wasilefsky* (2015). "Influence of Red Light Photo Enforcement Cameras on Capacity of Signalized Intersections," *ASCE Journal of Transportation Engineering*.
35. Jalayer M.*, F. Baratian-Ghorghi*, and H. Zhou (2015). "Identifying and Characterizing Secondary Crashes on the Alabama State Highway Systems." *Journal of Advances in Transportation Studies*.
36. Baratian-Ghorghi F.*, and H. Zhou (2015). "Investigating Women's and Men's Propensity to Use Traffic Information in a Developing Country," *Journal of Transportation in Developing Economies*.
37. Zhou H., J. Zhao*, M. Reisi-Gahrooei*, and P. Tobias (2015). "Identification of Contributing Factors to Wrong-Way Crashes on Freeways in Illinois," *Journal of Transportation Safety and Security*.
38. Zhao J.*, H. Zhou, P. Hsu, and J. Huang* (2015). "Correlating the Safety Performance of Urban Arterial with Lighting: An Empirical Model," *Journal of Transportation Research Record*.
39. Jalayer, M.*, Gong, J., H. Zhou, and M. Grinter (2015). "Evaluation of Remote Sensing Technologies for Collecting Roadside Feature Data to Support Highway Safety Manual Implementation." *Journal of Transportation Safety and Security*. Vol. 7, No. 3.

40. Jalayer M. *, S. Hu, H. Zhou, and R. Turochy (2015). "Evaluation of Geo-tagged Photo/video Logging Methods to Collect Geospatial Highway Inventory Data." *Journal of Papers in Applied Geography*. Vol. 1, No. 1.
41. Jalayer M.*, H. Zhou, M. Williamson*, and J. LaMondia (2015). "Developing Calibration Factors for Crash Prediction Models with Consideration of Crash Recording Threshold Change." *Journal of Transportation Research Record*.
42. Zhou H., J. Zhao*, M. Pour-Rouholamin* and P. Tobias (2015). "Statistical Characteristics of Wrong-Way Driving Crashes on Illinois Freeways." *Traffic Injury Prevention*, 16(8), pp. 760-767.
43. Baratian-Ghorghi F.*, H. Zhou, M. Jalayer *, and M. Pour-Rouholamin (2015). "Prediction of Potential Wrong-way Entries at Exit Ramps of Signalized Partial Cloverleaf Interchanges." *Journal of Traffic Injury Prevention*. 16(6), PP: 509-604.
44. Pour Rouholamin M.*, H. Zhou, J. Shaw, and P. Tobias (2014). Overview of Safety Countermeasures for Wrong-Way Driving Crashes. *ITE Journal*, 84 (12), pp. 31-38.
45. Zhou H., Y. Liu, and R. Fries (2014). "Design, Development, Implementation and Evaluation of a Multimedia Game System for Highway Incident Responder Training (HIRT)." *International Journal of Multimedia Technology*, 4:33-39.
46. Baratian-Ghorghi F., H. Zhou, and J. Shaw (2014). "Overview of Wrong-Way Driving Fatal Crashes in the United States." *ITE Journal*, 84: 41-47.
47. Zhou H., J. Zhao*, P. Lin, and P. Hsu (2014). "Reducing Traffic Crashes through a Short-term and Long-term Safety Improvement Program: a Case Example in Florida." *Advances in Transportation Studies*, 34:81-90.
48. Mohammad J.*, H. Zhou, J. Gong, S. Hu, and M. Grinter (2014). "A Comprehensive Assessment of Highway Inventory Data Collection Methods." *Journal of Transportation Research Forum*, 53: 73-92.
49. Chen H., H. Zhou, and P. Lin (2014). "Freeway Deceleration Lane lengths Effects on Traffic Safety and Operation." *Safety Science*, 64: 39–49.
50. Zhou H., J. Zhao*, P. Hsu, and J. Huang* (2013). "Safety Effects of Median Treatments Using Longitudinal Channelizers: Empirical Bayesian Before-and-After Study." *ASCE Journal of Transportation Engineering*, 139:1149-1155.
51. Fries R., M. Williamson*, H. Zhou, G. Koehler, and B. Vaughn (2013). "Training Information Needs of Freeway Incident Management Responders." *ITE Journal*, 83: 35-39.
52. Fries. R., S. Erica*, and H. Zhou (2012). "Barriers Influencing Illinois Children School Travel Mode Choice." *Advances in Transportation Studies*, July.
53. Zhao J., H. Zhou, H. Chen, and P. Hsu (2011). "Safety Effects of Left Exit on Freeway: A Case Study in Florida, USA." *Advances in Transportation Studies*, 75-90.
54. Yang J. and H. Zhou (2011). "Integrating Left-Turn Lane Geometric Design with Signal Timing." *ASCE Journal of Transportation Engineering*, 137 (11), 767-774.
55. Chen H., H. Zhou, J. Zhao*, and P. Hsu (2011). "Safety Performance Evaluation of Left-Side Off-Ramps at Freeway Diverge Areas." *Accident Analysis & Prevention*. 43, 605–612.
56. Zhou H., S. Bromfield*, and P. Lin (2011). "An Overview of Yield-to-Bus Programs in Florida," *Journal of Public Transportation*, Volume 14, No. 2.
57. Zhou H., D. Miller, and P. Hsu (2011). "Issue of Pedestrian Safety on Multi-Lane High-Speed Arterials," *Advances in Transportation Studies*. B23, 77-83.

58. Fabregas, A., P. Lin, E. Gonzalez*, A. Datz, and H. Zhou (2011). "Safety and Operational Assessment of Yield-to-Bus Electronic Warning Signs on Transit Bus." *Transportation Research Record, Journal of Transportation Research Board*, No. 2281, 1-9.
59. Zhou H., J. Yang*, P. Hsu, and S. Chen* (2010). "Factors Affecting Students' Walking/Biking Rates: Initial Findings from a Safe Route to School Survey in Florida," *Journal of Transportation Safety and Security*, 2:14-27.
60. Zhou, H., J. Zhao*, P. Hsu, and J. Rouse (2009). "Identify Factors Affecting the Number of Students Walking to School." *ITE Journal*, 40-44.
61. Zhou H., F. Pirinccioglu*, and P. Hsu (2009). "A New Roadway Lighting Measurement System," *Transportation Research Part C*, 17: 274-284.
62. Chen, H., H. Zhou, and P. Hsu (2009). "What Do We Know about Signal Countdown Timers?" *ITE Journal on Web*, 2: 72-76.
63. Zhou, H., S. Bromfield*, and A. Datz (2009). "Moving the Bus Back into Traffic Safely- Signage and Lighting Configuration." *ITE Journal*, 40-46.
64. Zhou H., P. Lin, and J. Shen (2008). "An Unconventional Design for Bus U-turns at Signalized Intersections." *Journal of Public Transportation*, Volume 11, No. 4, pp89-103.
65. Zhou H., K. Williams, and W. Farah (2008). "A Methodology to Evaluate Effects of Access Control near Freeway Interchange Area," *ASCE Journal of Transportation Engineering*, ASCE, 134(12), 504-511.
66. Zhou H. (2008). "Evaluation of Route Diversion Strategies Using Computer Simulation." *Journal of Transportation System Engineering and Information Technology*. Volume 8, No. 1, pp 61-67.
67. Zhou H, L. Hagen, J. Lu, and Z. Tian (2006). "Empirical Delay Models for Multi-lane Two-Way Stop-Controlled Intersections," *ITE Journal*, Vol. 76, No. 9: 41-46.
68. Yang, X. and H. Zhou (2004). "CORSIM-Based Simulation Approach to Evaluation of Direct Left Turn versus Right Turn Plus U-turn from Driveways." *ASCE Journal of Transportation Engineering*, 130 (1), pp. 68-75.
69. Liu, P., J. Lu, H. Zhou, and G. Sokolow (2007). "Operational Effects of U-turns as Alternatives to Direct Left-Turn." *ASCE Journal of Transportation Engineering*, 122(5), pp.327-334.
70. Zhou H., P. Hsu, J. Lu, and J. Wright (2003). "Optimal Location of U-turn Median Opening on Roadways." *Transportation Research Record, Journal of Transportation Research Board*, No.1847, pp. 36-41.
71. Zhou H., J. Lu, X. Yang, S. Dissanayake, K. Williams (2002). "Operational Effects of U-turns As Alternatives to Direct Left Turns From Driveways," *Transportation Research Record, Journal of Transportation Research Board*, No. 1796, pp. 72-79. <http://trb.metapress.com/content/k467021125401442/>
72. Zhou H.(2004). "A Before-and-After Safety Comparison of a Full versus Directional Median Opening," *FLITE*, Volume 45, No.1.
73. Zhou H. (1999). "Optimal Selection of Alternative Road Alignments Based on Environmental Impacts." *China Journal of Highway and Transportation*, Vol. 12, No. 3, pp. 95-99, ISSN 1001-7372.

74. Zhou H. (1998). "Application of Multi-objective Fuzzy Optimal Selection Model to Environmental Decision Making of Road Route Selection." *Journal of the China Railway Society*, Vol. 20, No. 4, pp. 98-105, ISSN1001-8360.
75. Zhou H. (1996). "Railway Flood Disasters Developing Tendency in China Predicted by Gray Model," *Journal of Catastrophology*, Vol. 11, No. 2, pp. 23-28, ISSN1000-811X.
76. Zhou H. (1998). "Application of Intelligent Transportation System on Railway." *Chinese Railway*, No. 9, pp. 9-12, ISSN1001-683X.
77. Zhou H. (1996). "Integrated Regional Division of China's Railway Natural Disasters and Reduction Countermeasures," *Journal of Natural Disasters*, Vol. 5, No. 1, pp. 8-14, ISSN 1004-4574.
78. Zhou H. (1996). "Analysis on the Causes and Development Trend of Railway Flood Disasters in Northeast China." *Journal of Northern Jiao-Tong University*, Vol. 20, No. 68, pp. 621-625, ISSN 1000-1506.
79. Zhou H. (1995). "Statistical Characteristics of Railway Flood Disasters in Recent 10 Years in China." *Journal of Natural Disasters*, Vol. 4, No. 4, pp.76-82, ISSN 1004-4574.

Conference Papers/Presentations (* refers to student authors)

1. Atiquezzaman MD*, J. Rueda-Benavides, H. Zhou, and B. Zhang*. "Predicting Crash/Near-Crash Situations Resulted from Distracted Driving Using SHRP2 Naturalistic Driving Study Data." Presented at the TRB Annual Meeting. Washington, DC.. 2020
2. Jalayer M., Atiquezzaman Md*, Pour-Rouholamin M., and H. Zhou. "Application of Intelligent Transportation Systems (ITS) to Reduce Wrong-Way Driving Crashes: A Review of Case Studies." Presented at the TRB Annual Meeting. Washington, DC.. 2020
3. Atiquezzaman MD*, and H. Zhou. "Comparative Analysis of Access Control Techniques at the Exit Ramp Terminals to Deter Wrong-Way Driving in Different States Transportation Research Board." Presented at the TRB Annual Meeting. Washington, DC.. 2020
4. Song Y.*, H. Zhou, and Q. Chang*. "Truck Driver Survey: Assessment of Needs and Preferences for Wrong-Way Driving Countermeasures at Freeway Ramp Terminals." Presented at the TRB Annual Meeting. Washington, DC.. 2020
5. Atiquezzaman MD*, and H. Zhou. "Comparative Analysis of Access Control Techniques at the Exit Ramp Terminals to Deter Wrong-Way Driving in Different States." Presented at the TRB Annual Meeting. Washington, DC.. 2020
6. Zhang B.*, H. Zhou, MD Atiquezzaman*, and R. Turochy. "Safety Impact of Two Types of Median Opening Access Control Treatments at Unsignalized Intersections on Multilane Divided Highways: Case Studies in Alabama." Presented at the TRB Annual Meeting. Washington, DC.. 2020
7. Atiquezzaman MD*, and H. Zhou. "Modeling the Risk of Wrong-Way Driving at the Exit Ramp Terminals." Presented at the TRB Annual Meeting. Washington, DC.. 2020

8. Xue, C.*, H. Zhou, and D. Xu*. "Field Implementation of Direction Rumble Strips for Deterring Wrong-Way Entries." Presented at the Transportation Research Board (TRB) 99th Annual Meeting. Washington, DC.. 2020
9. Xu, D.*, H. Zhou, C. Xue*, & LaMondia, J. "The Impact of Electric and Hybrid Vehicles on Highway Trust Fund: A Case Study in Alabama." Presented at Transportation Research Record 99th Annual Meeting. Washington DC.. 2020.
10. Xu, D.*, H. Zhou, C. Xue*. "Impact of Driver Characteristics on Headway Selection and Free-Flow Speed at Work Zones by Utilizing Naturalistic Driving Study Data". Presented at Transportation Research Record 99th Annual Meeting. Washington DC. 2020.
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5. Zhou H., R. Baireddy, Y. Song, and O. Howard (2018). "Safety Benefits of Median Barrier and Roadside Guardrail." Published by American Traffic Safety Services Association (ATSSA).
 6. Zhou H., M. Pour-Rouholamin, B. Zhang, J. Wang, and R. Turochy (2017). "A Study of Wrong-Way Driving Crashes in Alabama: Volume 1: Freeways." Final Report Submitted to the Alabama Department of Transportation (ALDOT).
 7. Zhou H., M. Pour-Rouholamin, B. Zhang, J. Wang, and R. Turochy (2017). "A Study of Wrong-Way Driving Crashes in Alabama: Volume 1: Freeways: Volume 2: Divided Highways." Final Report Submitted to the Alabama Department of Transportation (ALDOT).
 8. Qi Y., R. Fries, H. Zhou, R. Abdur, and R. Baireddy (2017). "Establishing Procedures and Guidelines for Pedestrian Treatments at Uncontrolled Locations." Final Report Submitted to the Illinois Center for Transportation (ICT).
 9. Zhou H., M. Pour-Rouholamin*, A. MD, A. Shacklett, B. Zhang, F. Baratian-Ghorghi*, J. Wang*, D. Xu, R. Baireddy, R. Cofield (2016). "ATSSA Member Business Opportunities Related to Connected and Automated Vehicles." Final Report Submitted to the American Traffic Safety Services Association (ATSSA).
 10. Zhou, H., and Pour-Rouholamin*, M. (2015). "Investigation of Contributing Factors Regarding Wrong-Way Driving on Freeways (Phase II)." Final Report Submitted to the Illinois Center for Transportation (ICT).
 11. Zhou H., M. Jalayer*, F. Baratian-Ghorghi*, J. Wang*, L. Yang*, M. Pour-Rouholamin*, and I. Wasilefsky*, "Preventing Vehicle Departure from Roadways," Final Report Submitted to the American Traffic Safety Services Association (ATSSA), December, 2014.
 12. Zhou, H., and Pour-Rouholamin*, M. (2014). "Emerging Safety Countermeasures for Wrong-way Driving." Final Report Submitted to the American Traffic Safety Services Association (ATSSA).
 13. Zhou, H., and Pour-Rouholamin*, M. (2014). "Guidelines for Reducing Wrong-Way Driving Crashes on Freeways." Final Report Submitted to the Illinois Center for Transportation (ICT).
 14. Zhou, H., and Pour-Rouholamin*, M. (2014). "Proceedings of the 2013 National Wrong-Way Driving Summit." Final Report Submitted to the Illinois Center for Transportation (ICT).
 15. Zhou H., J. Mohammad, J. Gong, S. Hu, and M. Grinter, "Investigation of Methods and Approaches for Collecting and Recording Highway Inventory Data." Final Report Submitted to Illinois Center for Transportation, June, 2013.
 16. Zhou H., J. Zhao, R. Fries, M. Gahrooei, L. Wang, B. Vaughn, K. Bahaaldin, and B. Ayyalasomayajula. "Investigation of Contributing Factors Regarding Wrong-Way Driving Crashes on Illinois Freeways." Final Report Submitted to Illinois Center for Transportation, October, 2012.
 17. Zhou H., R. Fries, M. Williamson, Z. Tian and B. Vaughn. "Development of a Highway Incident Management Operational and Training Guide." Final Report Submitted to Illinois Center for Transportation, August, 2011.

18. Zhou H., and S. Bromfield. "Moving the Bus Back into Traffic Safely-Signage and Lighting Configuration Phase I." A final report submitted to the Florida Department of Transportation, November, 2007.
19. Zhou H., and J. Zhao. "A Safe Routes to School Survey in Hillsborough County." A final report submitted to the Florida Department of Transportation, District 7, October, 2007.
20. Zhou H., and F. Pirinccioglu. "Roadway Lighting Analysis, Phase I: Development of Lighting Measurement Strategies." A final report submitted to the Florida Department of Transportation, District 7, December 2006.
21. Zhou H. "Safety Research: Pinellas County U.S. 19 (SR 55) Pedestrian Crash Review." A final report submitted to the Florida Department of Transportation, District 7, November 2006.
22. Hagen L., H. Zhou, and H. Singh. "Road Ranger Benefit and Cost Analysis." Final Report Submitted to the Florida Department of Transportation, November, 2005. <http://www.itscosts.its.dot.gov/its/benecost.nsf/Print/2FA61263C877AE888525722900608B08>
23. Hagen L., H. Zhou, and F. Pirinccioglu. "Development of Revised Methodology for Collecting Origin-Destination Data." A final report submitted to the Florida Department of Transportation, February, 2006.
24. Zhou H., H. Singh, P. Lin, and L. Hagen. "Evaluation of the Drive 4 Life Campaign- A Before-and-After Safety Study." A final report submitted to the Florida Department of Transportation, District 7, March, 2006
25. Williams K., H. Zhou, and L. Hagen. "Costs and Benefits of Strategic Acquisition of Limited Access Right-of-Way at Freeway Interchange Areas." A final report submitted to the Florida Department of Transportation, November, 2004.
26. Zhou H., and L. Hagen. "Analysis of Traffic Operations at Collins Avenue (SR A1A) and 193rd Street." A final report submitted to the Miami Dade Transit, December, 2004.
27. Zhou H., and L. Hagen. "Corsim-Based Simulation Approach to Evaluate Route Diversion Plans in Sarasota County." A final report submitted to the Florida Department of Transportation, May, 2004.
28. Lu John, S. Dissanayake, H. Zhou, X. Yang, and K. Williams. "Operational Evaluation of Right Turn Followed by U-turns as Alternatives to Direction Left Turns." A final report submitted to the Florida Department of Transportation, September 2001.

HONORS AND AWARDS

1. Best Paper Award for the paper "Modeling the Risk of Wrong-Way Driving at the Exit Ramp Terminals." By the TRB Standing Committee on Operational Effects of Geometrics, 2020.
2. High Value Research Project Award, The American Association of State Highway and Transportation Officials (AASHTO) Research Advisory Committee, 2015, for the project "Development of a Traffic Incident Management Operational and Training Guide, Phase II," as the PI.
3. High Impact Project Award, Illinois Center for Transportation (ICT), 2014
4. High Impact Project Award, Illinois Center for Transportation (ICT), 2012

5. Excellent Paper Award (second author) at the 24th ICTPA Annual Conference, 2011
6. Outstanding Research Award, School of Engineering at SIUE, 2010
7. Florida Davis Productivity Award, 2008
8. Georgia Brosch Memorial Transportation Scholarship, Center for Urban Transportation Research (CUTR), University of South Florida, 2001
9. Honorable Mention of Parsons Brinkerhoff Inc. Technical Paper Competition, 2001
10. Southern Transportation Center (STC) Fellowship, Center for Urban Transportation Research, University of South Florida, 1999-2000
11. Excellent Graduate Student Scholarship, Beijing Jiao-Tong University, 1996
12. ZHI-JING Fellowship, Beijing Jiao-Tong University, 1996-1997

COURSES TAUGHT

Auburn University

1. CIVL 3510 Introduction of Transportation Engineering (Fall, 2013, Spring and Fall, 2014, Fall, 2015, Spring 2016, Fall 2017, Fall 2018)
2. CIVL 4530 Advanced Geometric Design of Highways (Spring 2015, Spring 2017, Spring 2018, Spring 2019)
3. CIVL 7970 Transportation Safety System (Spring 2016, Spring 2018)
4. CIVL 7970 Computer Simulation in Traffic Engineering (Fall 2016, Spring 2019)

Southern Illinois University Edwardsville

1. CE 315 - Fluid Mechanics (Fall 2009 and Summer 2010)
2. CE 376 - Introduction of Transportation Engineering (Fall and Spring from 2008 to 2012)
3. CE 474 - Computer Simulation in Traffic Engineering (Spring 2009 and 2011)
4. CE 475 - Transportation Planning (Spring 2010)
5. CE 575 - Advanced Geometric Design (Fall 2010)
6. CE 579 - Transportation Safety Systems (Fall 2008, 2010, and 2012)

University of South Florida

1. Computer Application in Traffic Engineering (Graduate Level, Fall 2004)
2. Access Management, with Kristine Williams (Graduate Level, Spring 2006)
3. Computer Application in Traffic Engineering (Graduate Level, Spring 2006)
4. Computer Application in Traffic Engineering (Graduate Level, Spring 2007)
5. Independent Study (Graduate Level, 2006-2007)

CHAIR of GRADUATE COMMITTEE at Auburn University

1. Fatemeh Baratian Ghorghi, August 2013-September 2016 (Ph.D. Dissertation)
2. Mohammad Jalayer, August 2013-May 2016 (Ph.D. Dissertation)
3. Mahdi Pour Rouholamin, August 2-13-September 2016 (Ph.D. Dissertation)
4. Jin Wang, August 2014 – May 2018 (Ph.D. Dissertation)
5. Lingling Yang, August 2014-February 2016 (MS Thesis)

6. Beijia Zhang, August 2014- February 2017 (MS Thesis)
7. Yunyi Zhang, August 2014- December 2016 (MS)
8. Raghunandan Baireddy, August 2015- November 2017 (MS)
9. Dan Xu, August 2015-present (Ph.D. Dissertation)
10. Chennan Xue, August 2016-present (Ph.D. Dissertation)
11. Beijia Zhang, March 2017-present (Ph.D. Dissertation)
12. MD Atiquzzaman, August 2016-present (Ph.D. Dissertation)
13. Yukun Song, August 2017-present (MS)
14. Qing Chang, January 2018-present (MS)
15. Li Qian, August 2018-present (MS)
16. Rui Zeng, August 2018-present (MS)

Member of GRADUATE COMMITTEE at Auburn University

1. Scott Seidband, August 2013-October 2015 (MS Thesis)
2. Majid, Rasib, August 2013-Fall 2015 (MS Thesis)
3. Hongyang Qu, August 2014- Summer 2016 (MS)
4. Shraddha Praharaj, August 2014- Summer 2016 (MS Thesis)
5. Nicholas Jehn, August 2015- April 2018 (MS Thesis)
6. Bo Zhang, August 2016- present (MS Thesis)
7. Benjamin Burmester, August 2016-present (Ph.D. Dissertation)
8. Fernando Cordero, August 2017-present (MS Thesis)

CHAIR of GRADUATE COMMITTEE at SIUE

1. Fatemeh Baratian Ghorghi, January, 2013-August, 2013 (Ph.D. Dissertation)
2. Michael Williamson, July, 2011- December, 2013 (Ph.D. Dissertation)
3. Mohammad Jalayer, January 2012-August, 2013 (Ph.D. Dissertation)
4. Mahdi Pour Rouholamin, August 2012 – August, 2013 (Ph.D. Dissertation)
5. Michael Williamson, May, 2010-July 2011 (Master Thesis)
6. Jing Huang, May 2010- July 2012 (Master Thesis)
7. Gang Xu, May 2010 - present (Master Thesis)
8. Zhaofeng Tian, August 2009- July 2011 (Master Thesis)
9. David Herman, August 2009- present (Master Thesis)
10. Gus Heck, August 2009 – December 2010 (Master Research Paper)
11. Jiguang Zhao, January 2009-October 2011 (Ph.D. Dissertation)

MEMBER OF GRADUATE COMMITTEE at USF

1. Isaac Sankah, August 2003- December 2005 (Co-Chair, Master Thesis)
2. Harkanwal Singh, January 2004-June 2006 (Co-Chair, Master Thesis)
3. Fatih Pirinccioglu, February 2006- May 2007 (Ph.D. Dissertation)
4. Stephanie Bromfield, May 2006- December 2007 (Co-Chair, Master Thesis)
5. Xu Wang, May 2006- January 2008 (Ph.D. Dissertation)
6. Jiguang Zhao, January 2007-January 2009 (Ph.D. Dissertation)
7. Enrique Gonzalez-Velez, December 2006- present (Ph.D. Dissertation)
8. Zhenyu Wang, January 2006-2008 (Ph.D. Dissertation)

PROFESSIONAL AFFILIATION

1. Fellow of Institute of Transportation Engineers (Since 2011)
2. Member, American Traffic Safety and Services Association (ATSSA)
3. Member, Southern District ITE and Alabama ITE

NATIONAL/INTERNATIONAL LEADERSHIP AND SERVICE

1. Member, Committee on Traffic Control Devices, TRB
2. Member, Access Management Committee, TRB
3. Secretary of TRB Access Management Research Committee
4. Associate Editor of ITE Journal of Transportation
5. Member, Committee on Major Activity Center Circulation Systems, AP040, TRB
6. Member, Traffic Signal Operations Committee, Institute of Transportation Engineers (2013-2018)
7. Paper Reviewer for the ASCE Journal of Transportation Engineering, Transportation Safety and Security, Advanced Transportation Studies, Journal of Public Transportation
8. Paper Reviewer for the TRB Committees of Highway Capacity, Access Management, Traffic Control Devices, Major Activity Center Circulation Systems, and Traveler Behavior and Values
9. Board of Directors, North America China Overseas Transportation Association (NACOTA, 2008-2010).
10. Co-Chair of Conference Technical Committee, the 2007 Technical Symposium on Intermodal Transportation Development in Pan-Pacific Regions, Washington D.C., January, 2007