Timothy J. Gates, Ph.D., P.E.
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517-353-7224
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Curriculum Vitae
January 31, 2025

PROFESSIONAL EXPERIENCE:

Michigan State University, Department of Civil and Environmental Engineering
- Professor, July 2021 – present
- Associate Chair for Undergraduate Studies, July 2020 – present
- Associate Professor, August 2015 – June 2021

Wayne State University, Department of Civil and Environmental Engineering
- Associate Professor (with tenure), August 2013 – August 2015
- Assistant Professor, August 2007 – August 2013

University of Wisconsin – Madison, Department of Civil and Environmental Engineering
- Graduate Research Assistant, August 2003 – July 2007

Texas Transportation Institute, Operations and Design Division
- Associate/Assistant Transportation Researcher, July 2000 – July 2003

EDUCATION:

PhD, Civil Engineering (Transportation), University of Wisconsin, Madison, WI, 2007
MS, Civil Engineering (Transportation), Michigan State University, East Lansing, MI, 2000
BS, Civil Engineering, Michigan State University, East Lansing, MI, 1999

PROFESSIONAL SOCIETY MEMBERSHIP(S):

Institute of Transportation Engineers, Michigan Section, 2007 – present

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PROFESSIONAL REGISTRATION(S):

Professional Engineer: Michigan No. 6201062278, granted 2015

HONORS/AWARDS/RECOGNITION:

Withrow Exceptional Service Award, MSU College of Engineering, 2024

Best Paper by First Author under Age 35, Traffic Control Devices Committee, Transportation Research Board (TRB), 2022

Best Paper by First Author under Age 35, Traffic Control Devices Committee, TRB, 2021

Best Paper, Traffic Control Devices Committee, TRB, 2020

Best Paper, Operational Effects of Geometrics Committee, TRB, 2017, 2012

Best Paper, Pedestrian Committee, TRB, 2017

William Bradley Outstanding Faculty Member Award, MSU ASCE Chapter, 2017

AASHTO Research Advisory Committee High Value Research Award, 2013

Favorite Professor, Wayne State University, Department of Athletics, 2013

Eno Transportation Fellow, 2004

FHWA Dwight D. Eisenhower Graduate Fellow, 2003 – 2005; 1999 - 2000

Student of the Year, Midwest Region University Transportation Center, 2004

First Place, Quixote Student Essay Competition, 2004; Finalist, 2005

Wisconsin Section ITE Martin Bruening Student Paper Award, 2004

Texas Transportation Institute New Researcher Award, 2002

I. TEACHING AND ADVISING

A. Courses Taught at Michigan State University

1. Undergraduate

Semester	Enrollment	SIRS Items 1-4 (1 is best)	SIRS Item 5 Rating (4 is best)
CE 341 –Transportation Engineering			
Fall 2024	58	4.23 (out of 5)	4.47 (out of 5)
Spring 2023	31	1.80	3.40
Spring 2021	51	1.57	3.62
Spring 2019	29	1.46	3.68
Spring 2018	36	1.28	3.82
CE 449 – Highway Design			
Spring 2024	40	4.24 (out of 5)	4.05 (out of 5)
Spring 2023	33	1.10	3.91
Spring 2022	54	1.19	3.89
Spring 2021	41	1.51	3.47
Spring 2020	44	1.36	3.75
Spring 2019	40	1.33	3.90
Fall 2017	42	1.46	3.62
Fall 2016	35	1.23	3.73
Fall 2015	40	1.25	3.70

2. Graduate

Semester	Enrollment	SIRS Items 1-4 (1 is best)	SIRS Item 5 Rating (4 is best)
CE 843/891 – Advanced Highway Design and Traffic Control			
Spring 2024	9	4.31 (out of 5)	4.29 (out of 5)
Spring 2022	8	1.25	3.84
Spring 2020	14	1.28	4.00
CE 844 – Highway and Traffic Safety			
Spring 2017	10	1.06	4.00

B. Theses/Dissertation Directed

Doctoral Dissertations Completed (Michigan State University)

1. Jonathan Kay, Doctoral Defense: November 2022, Civil Engineering, “Safety Performance of Median U-Turn Intersections”. Jonathan Kay is currently a post-doctoral researcher in the Department of Civil and Environmental Engineering at Michigan State University.
2. Anthony Ingle, Doctoral Defense: July 2022, Civil Engineering, “Safety Performance of Rural Intersections with Atypical Design Characteristics”. Anthony Ingle is a teaching specialist in the Department of Civil and Environmental Engineering at Michigan State University.
3. Md. Shakir Mahmud, Doctoral Defense: July 2022, Civil Engineering, “Evaluation of Dynamic Speed Feedback Signs on Freeway Interchange Ramps”. Md. Shakir Mahmud is a highway safety research scientist in for VHB, Inc. in Raleigh, North Carolina.
4. Meghna Chakraborty, Doctoral Defense: December, 2021, Civil Engineering, “Assessing Safety Performance of Roadway Characteristics in Rural and Urban Contexts”. Meghna Chakraborty is a research associate at the University of North Carolina Highway Research Center.
5. Steven Stapleton, Doctoral Defense: December, 2020, Civil Engineering, “Evaluating Safety Performance of Rural County Highways Using Mixed-Effects Negative Binomial Models”. Steven Stapleton is a research associate in the Division of Freight, Transit, and Heavy Vehicle Safety at the Virginia Tech Transportation Institute in Blacksburg, Virginia.

Doctoral Dissertations Completed (Wayne State University)

1. Amna Chaudhry, Doctoral Defense: September 21, 2015, Civil Engineering, "Analysis of Queue Characteristics at Signalized Intersections Near Highway-Railroad Grade Crossings". Amna Chaudhry is currently a faculty member in the Department of Transportation Engineering and Management at the University of Engineering and Technology in Lahore, Pakistan.
2. Prasad Nannapaneni, Doctoral Defense: March 25, 2011, Civil Engineering, "Evaluating the Use of Steady Burn Warning Lights on Drums for Work Zone Safety". Prasad Nannapaneni is currently the Engineering Services Coordinator at the City of Detroit, Michigan.

Current Ph.D. Student Advisees

1. Akshay Suresh Babu, August 2024 - present
2. Vahid Bahrami, August 2023 – present
3. Magdalena Cavka, August 2022 – present
4. Sagar Keshari, August 2021 – present
5. Sakar Pahari, August 2021 - present

Ph.D. Advisory Committees, Non-Chair

1. Hamid Mozafari, August 2022 – present (Ghamami chair)
2. Gagan Gupta, August 2022 – present (Savolainen chair)
3. Sunday Imosemi, August 2021 - present (Savolainen chair)
4. Folarin Abatan, August 2020 – present (Savolainen chair)
5. Farish Jazlan, Jan 2020 – present (Zockaie chair)
6. Nischal Gupta, Sept 2019 – 2023 (Savolainen chair)
7. Kshitij Sharma, 2019 – 2024 (North Dakota State University student)
8. Megat Megatjohari, Sept 2018 – 2022 (Savolainen chair)
9. Nusayba Megatjohari, Sept 2018 – 2022 (Savolainen chair)
10. Anshu Bamney, Sept 2018 – 2022 (Savolainen chair)
11. Qiuqi Cai, Sept 2018 – 2022 (Savolainen chair)
12. Fatemeh Fakhrmoosavi, Jan 2017 – 2021 (Zockaie chair)
13. Mohammad Kavianipour, Sept 2017 – 2021 (Zockaie chair)
14. Harprinderjot Singh, Sept 2017 – 2021 (Ghamami chair)
15. Sam Shojaei, PhD, Civil Engineering, Graduated August 2020 (Ghamami chair)
16. Jubaid Qayyum, PhD, Electrical and Computer Engineering, Graduated August 2020
17. Ramin Saedi Germi, PhD, Civil Engineering, Graduated May 2020 (Zockaie chair)
18. Abel Sahlool, PhD, Civil Engineering (Wayne State University)
19. Indrajit Ghosh, Ph.D., Civil Engineering (Wayne State University)

Post-Doctoral Researchers Supervised

1. Jonathan Kay, Ph.D., November 2022 – present
2. Dinesh Devaraj, Ph.D. (Wayne State University), August 2010 – April 2011

Fulbright Scholars Supervised

1. Dario Babic, Ph.D. University of Zagreb, Croatia, September 2021 – April 2022

M.S. Theses Completed (Michigan State University)

1. Rajat Verma, Evaluation of a Rear-End Collision Avoidance System on Winter Maintenance Trucks, July 2019.
2. Steven Stapleton, Evaluation of the Relative Safety of Pedestrian Infrastructure Using Driver Behavior and Conflict as Surrogates for Crashes, August 2017.
3. Gentjan Heqimi, Using Spatial Interpolation to Determine Impacts of Snowfall on Traffic Crashes, December 2016.

M.S. Student Advisees (Michigan State University)

1. Austin Detweiler, 2024
2. Abdullah AlSady, 2023 – present
3. Fahad Alotaibi, 2023 – present
4. John Racine, 2023
5. Sarah Premo, 2023
6. Myles Overall, 2022
7. Travis Holpuch, 2020 – 2021
8. Jordan Hankin*, 2020 – 2021
9. Michelle St. Onge, 2019 – 2021
10. Matthew Motz*, 2019 – 2020
11. Babak Safaei, 2019 – 2021
12. Meghna Chakraborty, 2017 – 2020**
13. Rajat Verma, 2017 – 2019*
14. Alex Mullen, 2017 - 2018
15. Jacob Swanson, 2017 - 2018
16. Brian Gammon, 2016 - 2017
17. Steven Stapleton, 2016 – 2017*,**
18. Gentjan Heqimi, 2015 – 2016

*received outstanding MS student award in CE
**continued in PhD program

Graduate Students Supported through Research Funding

1. Gracie Clark, 2024 – present
2. Austin Detweiler, 2024
3. Vahid Bahrami, 2023 - present
4. Jonathan Racine, 2023 – 2024
5. Sarah Premo, 2023
6. Magdalena Cavka, 2022 – present
7. Myles Overall, 2022 – 2023
8. Navid Shirzai, 2022
9. Sagar Keshari, 2021 – present
10. Sakar Pahari, 2021 - present
11. Travis Holpuch, 2020 – 2021
12. Jordan Hankin, 2020 – 2021
13. Matthew Motz, 2019 - 2020
14. Jonathan Kay, 2019 - 2022
15. Babak Safaei, 2019 - 2021
16. Md Shakir Mahmud, 2018 - 2022
17. Rajat Verma, 2017 - 2019
18. Alex Mullen, 2017 - 2018
19. Meghna Chakraborty, 2017 - 2021
20. Anthony Ingle, 2016 - 2022
21. Ahmad Fawaz, 2016 – 2017
22. Jacob Swanson, 2017
23. Corey Turner, 2016 – 2017
24. Brian Gammon, 2016 - 2017
25. Steven Stapleton, 2016 – 2020
26. Santosh Mirskar, 2014-2015
27. Yanfei Sui, 2014-2015
28. Amirarsalan Molan, 2014-2015
29. Gentjan Heqimi, 2014–2016
30. Elizabeth Hacker, 2013-2015
31. Emira Rista, 2013-2014

32. Sterling Frazier, 2013-2015
33. Ameilia Davis, 2013-2015
34. Miroslav Dimovski, 2013-2015
35. Anthony Vitti, 2013
36. Hassan Dakroub, 2013-2014
37. Patrick Andridge, 2013-2014
38. Bachir Hamadeh, 2012-2015
39. Eric Malburg, 2012-2014
40. Jeffery Morden, 2012-2013
41. Jonathan Kay, 2011-2013
42. Ryan Todd, 2011–2012
43. Jason Pittenger, 2011–2012
44. Matthew Duffy, 2011–2013
45. Renardo Bezati, 2011–2012
46. Adam McArthur, 2011–2013
47. Amna Chaudhry, 2010-2015
48. Brendan Russo, 2010–2014
49. Honey-um Maria, 2010-2011
50. Ahmad Fawaz, 2010–2011
51. Jacqueline Kawa, 2009-2011
52. Jennifer Schalk, 2009–2011
53. Stephan Maxe, 2009–2011
54. Johnny Chee, 2009–2010
55. Kakan Dey, 2009–2010
56. Teja Karra, 2009–2010
57. Shahinul Haque, 2009–2010
58. Daniel Cook, 2008–2010
59. Sindhura Vuyyuru, 2007–2009
60. Kristen Walker, 2007–2008
61. Mark Mathes, 2007–2008

<u>Undergraduate Students Supported through Research Funding (Michigan State University)</u>

1. Colin Pearson, 2022 – present
2. Sydney Janssen, 2022 – 2024
3. Gracie Clark, 2022 - 2024
4. Austin Detweiler, 2021 - 2023
5. Kathleen Costello, 2021 – 2022
6. Tanner Herald, 2021 - 2022
7. Alec Beauchamp, 2021
8. Lauren Hull, 2020 - 2022
9. Myles Overall, 2020 – 2021
10. Kate Costello, 2020 - 2021
11. Jordan Hankin, 2018 – 2019
12. Matt Motz, 2018 – 2019
13. Allison Hartman, 2018 - 2019
14. Travis Holpuch, 2017 - 2019
15. Cade Gunther, 2018
16. Georgia Brattin, 2018
17. Christina Crane, 2018
18. Steven Andooparambil, 2018
19. Garet Rice, 2018
20. Alexander Deneau, 2017 - 2018
21. Jacob Swanson, 2016
22. Alex Mullen, 2015 - 2017

A. Courses of Curriculum Development

(1) CE 840 - Introduction to Transportation

Full development of course materials for initial offing in Summer 2023

(2) CE 843 – Advanced Highway Design and Traffic Control

Full development of course materials for initial offing in Spring 2020

(3) CE 341 – Introduction to Transportation

Revision of MSU course materials prior to first MSU offering in Spring 2018

(4) CE 844 – Highway and Traffic Safety

Full development of course materials for initial offing in 2017

(5) CE 449 – Highway Design

Revision of WSU course materials prior to first MSU offering in Fall 2015

B. Department Advisory Positions

(1) MSU Chi Epsilon, Faculty Advisor, 2016 - present
(2) MSU Institute of Transportation Engineers (ITE), Faculty Advisor, 2015 – 2018
(3) WSU Chi Epsilon, Faculty Advisor, 2009 - 2015

II. RESEARCH

A. Funded Research as Principal Investigator (PI) or Co-PI ($23.3 M Total; $11.5 M Personal Share)

(1) ***Evaluation of Digital Speed Limit Signs in Work Zones,*** Michigan Department of Transportation (MDOT), $193,797 (PI, with Peter Savolainen and Kakan Dey; Personal Share: $65,891 [34%]), May 2025 – April 2027.

(2) ***Evaluation and Prioritization of MDOT Rest Areas,*** MDOT, $183,901 (PI, with Peter Savolainen and Kakan Dey; Personal Share: $62,526 [34%]), March 2025 – October 2026.

(3) ***Seat Belt and Hand-Held Device Use Direct Observation Survey - FY26 & FY27,*** Michigan Office of Highway Safety Planning (OHSP), $270,000 (PI, with Peter Savolainen and Kakan Dey; Personal Share: $121,500 [45%]), October 2025 – September 2027.

(4) ***NCHRP 03-150 Update to Procedure for Determining Work Zone Speed Limits,*** $150,000 (PI with Peter Savolainen and Kakan Dey; Personal Share: $51,000 [34%]), December 2024 - May 2027

(5) ***NCHRP 17-128 Reducing Adverse Driving Behaviors in Work Zones: Strategies and Guidelines***, $150,000 (PI with Peter Savolainen and Kakan Dey; Personal Share: $51,000 [34%]), October 2024 - September 2027

(6) ***Seat Belt and Hand-Held Device Use Direct Observation Survey - FY25,*** Michigan Office of Highway Safety Planning (OHSP), $119,998 (PI, with Peter Savolainen and Ali Zockaie; Personal Share: $53,999 [45%]), October 2024 – September 2025.

(7) ***Technical Support for Michigan Safe Routes to School - FY25-FY30,*** Michigan Fitness Foundation, $1,372,967 (PI with Peter Savolainen; Personal Share: $1,029,725 [75%]) October 2024 - September 2030

(8) ***Roadside Feature Placement and Pedestrian Safety on Low and Intermediate Speed Road,*** MnDOT, $180,706 (co-PI with Peter Savolainen and Kakan Dey; Personal Share $59,633 [33%]), July 2024 - June 2026

(9) ***Speed Impacts from Roundabouts and Other Traffic Control Devices,*** MnDOT, $149,003 (co-PI with Peter Savolainen and Kakan Dey; Personal Share $49,171 [33%]), August 2024 - July 2026

(10) ***Effect of Centerlines on Prevailing Traffic Speeds on Low-Speed, Two-Lane, Two-Way Roads in Urban Contexts,*** MnDOT, $160,000 (PI with Peter Savolainen and Kakan Dey; Personal Share $54,400 [34%]), July 2024 - June 2026

(11) ***NCHRP 17-124 Effectiveness of Speed Reduction in Work Zones,*** $400,000 (PI with Peter Savolainen and Kakan Dey; Personal Share: $160,000 [40%]), July 2024 - January 2027

(12) ***Safety Effectiveness of Non-Freeway Sinusoidal Shoulder Corrugations,*** MDOT, $264,706 (PI with Peter Savolainen and Kakan Dey; Personal Share: $105,882 [40%]), April 2024 - April 2024

(13) ***User Understanding of Pedestrian Hybrid Beacon Operation,*** MnDOT, $196,132 (co-PI with Kakan Dey and Peter Savolainen; Personal Share: $65,377 [33%]), July 2024 - June 2026

(14) ***Research on COVID and Traffic Crashes/Impact on Safety Targets,*** MDOT, $310,590 (co-PI with Peter Savolainen and Kakan Dey; Personal Share: $103,530 [33%]), May 2024 - May 2026

(15) ***2023 Work Zone Safety Grant,*** Federal Highway Administration, $863,137 (co-PI, with Peter Savolainen; Personal Share: $431,568 [50%]), February 2024 - February 2029.

(16) ***Seat Belt and Hand-Held Device Use Direct Observation Survey - FY24,*** Michigan Office of Highway Safety Planning (OHSP), $120,000 (PI, with Peter Savolainen and Ali Zockaie; Personal Share: $54,000 [45%]), October 2023 – September 2024.

(17) ***Technical Support for Michigan Safe Routes to School - FY24,*** Michigan Fitness Foundation (PI with Peter Savolainen; Personal Share: $154,749 (75%)) October 2023 - September 2024

(18) ***Identify Best Locations for New Flex-Route Projects Throughout the State of Michigan,*** Michigan DOT, $300,000 (co-PI with Peter Savolainen, Ali Zockaie, and Mehrnaz Ghamami; Personal Share: $75,000 [25%]) June 2023 - June 2025

(19) ***Optimizing Work Zone Conditions to Maximize Safety and Mobility,*** Michigan Department of Transportation (MDOT), $196,478 (PI, with Peter Savolainen); Personal Share: $98,239 [50%]), June 2023 – May 2025

(20) ***Merging Implementation Criteria,*** Smart Work Zone Deployment Initiative (SWZDI), $100,00 (co-PI, with Peter Savolainen); Personal Share: $50,000 [50%]), April 2023 – September 2024

(21) ***Winter Severity Index with Winter Maintenance Expenses and Material Usage,*** MDOT, $190,000 (co-PI, with Ali Zockaie, Mehrnaz Ghamami, and Peter Savolainen); Personal Share: $9,500 [5%]), February 2023 – January 2025

(22) ***Right Turn Lane Safety Improvements for Pedestrians,*** Minnesota DOT, $68,160 (PI, with Peter Savolainen); Personal Share: $34,080 [50%]), July 2023 – December 2024

(23) ***Improving Safety for People Walking and Biking at Roundabouts,*** Minnesota DOT, $108,011 (co-PI, with Peter Savolainen); Personal Share: $54,005 [50%]), July 2023 – June 2025

(24) ***Efficacy of Speed Warning Technologies,*** MDOT, $234,140 (PI, with Peter Savolainen, Dong Zhao; Personal Share: $93,656 [40%]), January 2023 – February 2025

(25) ***Seat Belt and Hand-Held Device Use Direct Observation Survey - FY23,*** Michigan Office of Highway Safety Planning (OHSP), $120,000 (PI, with Peter Savolainen and Ali Zockaie; Personal Share: $54,000 [45%]), October 2022 – September 2023.

(26) ***Technical Support for Michigan Safe Routes to School – FY23,*** Michigan Fitness Foundation (MFF), $177,320 (PI, with Peter Savolainen; Personal Share: $132,990 [75%]), October 2022 – September 2023.

(27) ***Complete Streets Speed Impacts***, Minnesota Department of Transportation, $155,938 (co-PI, with Peter Savolainen; Personal Share: $77,969 [50%]), July 2022 – June 2024

(28) ***Analysis of Improvements in the Effectiveness of Speed Feedback Trailers***, Smart Work Zone Deployment Initiative (SWZDI), Iowa State University, $100,000 (PI, with Peter Savolainen; Personal Share: $100,000 [50%]), April 2022 – September 2023.

(29) ***Seat Belt and Hand-Held Device Use Direct Observation Survey - FY22,*** Michigan Office of Highway Safety Planning (OHSP), $119,000 (PI, with Peter Savolainen and Ali Zockaie; Personal Share: $53,550 [45%]), October 2021 – September 2022.

(30) ***Child Restraint Device Use and Misuse Direct Observation Survey - FY22,*** Michigan Office of Highway Safety Planning (OHSP), $115,000 (PI, with Peter Savolainen and Mehrnaz Ghamami; Personal Share: $51,750 [45%]), October 2021 – September 2022.

(31) ***Technical Support for Michigan Safe Routes to School – FY22,*** Michigan Fitness Foundation (MFF), $172,100 (PI, with Peter Savolainen; Personal Share: $129,075 [75%]), October 2021 – September 2022.

(32) ***Effective Bridge Deck Warning Weather Technologies***, Michigan Department of Transportation (MDOT), $351,167 (PI, with Peter Savolainen, Ali Zockaie; Personal Share: $119,397 [34%]), March 2021 – July 2023

(33) ***Determining State and Federal Transportation Responsibilities to Residents on Islands,*** Michigan Department of Transportation (MDOT), $160,573 (co-PI with Ali Zockaie, Mehrnaz Ghamami, Peter Savolainen; Personal Share: $8,029 [5%]), January 2021 – September 2022

(34) ***Evaluating the Performance and Safety Effectiveness of Roundabouts – An Update,*** Michigan Department of Transportation (MDOT), $250,000 (co-PI with Peter Savolainen; Personal Share: $125,000 [50%]), January 2021 – December 2022

(35) ***Corridor and Systemwide Application of Performance Based Practical Design,*** Michigan Department of Transportation (MDOT), $85,000 (co-PI with Peter Savolainen; Personal Share: $42,500 [50%]), January 2021 – December 2023

(36) ***Technical Support for Michigan Safe Routes to School - FY21,*** Michigan Fitness Foundation (MFF), $166,346 (PI, with Peter Savolainen; Personal Share: $124,760 [75%]), October 2020 – September 2021.

(37) ***Seat Belt and Hand-Held Device Use Direct Observation Survey - FY21,*** Michigan Office of Highway Safety Planning (OHSP), $118,993 (PI, with Peter Savolainen and Ali Zockaie; Personal Share: $53,309 [45%]), October 2020 – September 2021.

(38) ***Assessing System Performance of the Michigan Trunkline: Measures and Analytical Procedures for Planning and Operations.*** Michigan Department of Transportation (MDOT), $181,771 (co-PI, with Ali Zockaie, Mehrnaz Ghamami, and Peter Savolainen; Personal Share: $9,089 [5%]), July 2020 – July 2022.

(39) ***NCHRP 15-75 Update of Policy on Geometric Design of Highways and Streets: Guidance on Acceleration/Deceleration and Stopping Sight Distance,*** Transportation Research Board, $500,000 (co-PI, with Peter Savolainen; Personal Share: $250,000 [50%]), August 2020 – December 2022.

(40) ***NCHRP 03-139 Next Generation of the USLIMITS2 Speed Limit Setting Expert System,*** University of North Carolina Highway Research Center, Transportation Research Board, $88,000 (co-PI, with Peter Savolainen; Personal Share: $44,000 [50%]), June 2020 – November 2022.

(41) ***Temporary Traffic Control Devices at Driveways within a One-Lane, Two-Way Section.*** Smart Work Zone Deployment Initiative (SWZDI), Iowa State University, $75,000 (PI, with Peter Savolainen; Personal Share: $37,500 [50%]), May 2020 – September 2021.

(42) ***Incorporating Impacts of Driver Distraction into Highway Design and Traffic Engineering,*** Vanassee, Hangen, Brustlin, Inc. (VHB), Second Strategic Highway Safety Program (SHRP2), Federal Highway Administration (FHWA), $202,087 (co-PI, with Peter Savolainen; Personal Share: $101,043 [50%]), March 2020 – September 2022.

(43) ***Dwight David Eisenhower Transportation Fellowship Program (DDETFP) Graduate Fellowship 2020 (Matthew Motz),*** Federal Highway Administration (FHWA), $5,000 (PI; Personal Share: $5,000 [100%]), January 2020 - August 2020.

(44) ***2019 Road to Zero Safe System Innovation Grants****,* National Safety Council, USDOT, $184,682 (co-PI, with Peter Savolainen; Personal Share: $92,341 [50%]), November 2019 – December 2020

(45) ***Traveler Expectations and Future Use of Highway Rest Areas in the Western United States,*** Nevada Department of Transportation, $200,000 (PI, with Peter Savolainen; Personal Share: $100,000 [50%]), November 2019 – September 2021.

(46) ***Developing a Consistent Data Driven Methodology to Multimodal, Performance Based and Context Sensitive Design,*** Michigan Department of Transportation (MDOT), $299,999 (co-PI, with Peter Savolainen, Jon Burley, Teresa Qu; Personal Share: $30,000 [10%]), October 2019 – September 2022.

(47) ***Seat Belt and Hand-Held Device Use Direct Observation Survey - FY2020,*** Michigan Office of Highway Safety Planning (OHSP), $118,464 (PI, with Peter Savolainen; Personal Share: $53,309 [45%]), October 2019 – September 2020.

(48) ***Technical Support for Michigan Safe Routes to School - FY2020,*** Michigan Fitness Foundation (MFF), $160,811 (PI, with Peter Savolainen; Personal Share: $120,608 [75%]), October 2019 – September 2020.

(49) ***SHRP2 Phase 3 -Countermeasure Implementation and Evaluation,*** Michigan Department of Transportation (MDOT), Iowa State University, $352,174 (MSU PI; Personal Share: $176,087 [50%]), June 2019 – June 2022.

(50) ***Effectiveness of Green Strobes on Winter Maintenance Vehicles and Equipment,*** Michigan Department of Transportation (MDOT), $110,857 (co-PI, with Ali Zockaie, Mehrnaz Ghamami, Peter Savolainen; Personal Share: $5,543 [5%]).

(51) ***Performance and Safety of the US-23 Flex Route Managed Lanes,*** Michigan Department of Transportation (MDOT), $187,678 (co-PI, with Eva Kassens Noor, Peter Savolainen; Personal Share: $46,920 [25%]), March 2019 – June 2020.

(52) ***Evaluating the Impacts of the 2017 Legislative Mandated Speed Limit Increases,*** Michigan Department of Transportation (MDOT), $230,246 (co-PI, with Peter Savolainen, Eva Kassens Noor; Personal Share: $57,562 [25%]), March 2019 – March 2022.

(53) ***Synthesis of National Best Practices on Pedestrian and Bicycle Design, Guidance and Technology Innovations,*** Michigan Department of Transportation (MDOT), $205,909 (PI, with Peter Savolainen, Teresa Qu, Jon Burley; Personal Share: $82,364 [40%]).

(54) ***Research on the Effectiveness of Crash Fact/Safety Message Signs on Dynamic Message Signs,*** Michigan Department of Transportation (MDOT), $127,023 (co-PI, with Peter Savolainen, Eva Kassens Noor; Personal Share: $31,756 [25%]), March 2019 – April 2020.

(55) ***Dwight David Eisenhower Transportation Fellowship Program (DDETFP) Graduate Fellowship 2019 (Steven Stapleton),*** Federal Highway Administration (FHWA), $35,500 (PI; Personal Share: $35,500 [100%]), January 2019 - December 2019.

(56) ***Direct Observation Survey of Safety Belt Use and Handheld Device use in Michigan for FY19,*** Michigan Office of Highway Safety Planning (OHSP), $105,000 (PI, with Peter Savolainen; Personal Share: $52,500 [50%]), October 2018 – September 2019.

(57) ***Research on the Operational Cost and Benefits of Speed Feedback Signs,*** Michigan Department of Transportation (MDOT), $200,704 (PI, with Ali Zockaie, Mehrnaz Ghamami, Dong Zhao; Personal Share: $50,176 [25%]), November 2017 – September 2018.

(58) ***Safe Routes to School (SR2S) FY 2019 - FY2024,*** Michigan Fitness Foundation (MFF), $1,017,172 (PI; Personal Share: $1,017,172 [100%]), October 2018 – September 2024.

(59) ***Research on Accelerated Bridge Preservation Techniques,*** Michigan Department of Transportation (MDOT), $131,250 (co-PI, with Judith Corley-Lay; Personal Share: $13,125 [10%]), January 2018 – January 2020.

(60) ***Dwight David Eisenhower Transportation Fellowship Program (DDETFP) Graduate Fellowship 2018 (Steven Stapleton),*** Federal Highway Administration (FHWA), $5,000 (PI; Personal Share: $5,000 [100%]), January 2018 – August 2018.

(61) ***Research on Evaluation/ Report for Collision Avoidance & Mitigation System (CAMS) on Winter Maintenance Trucks,*** Michigan Department of Transportation (MDOT), $180,265 (co-PI, with Ali Zockaie, Mehrnaz Ghamami; Personal Share: $9,013 [5%]), November 2017 – September 2018.

(62) ***Direct Observation Survey of Child Restraint Device and Booster Seat Use and Misuse Rates in Michigan for FY18,*** Michigan Office of Highway Safety Planning (OHSP), $106,186 (PI; Personal Share: $106,186 [100%]), October 2017 – September 2018.

(63) ***Direct Observation Survey of Safety Belt Use and Handheld Device use in Michigan for FY18,*** Michigan Office of Highway Safety Planning (OHSP), $105,837 (PI; Personal Share: $105,837 [100%]), October 2017 – September 2018.

(64) ***Safe Routes to School (SR2S) FY 2018,*** Michigan Fitness Foundation (MFF), $149,883 (PI; Personal Share: $149,883 [100%]), October 2017 – September 2018.

(65) ***Direct Observation Survey of Motorcycle Helmet and Hi Viz Gear Use In Michigan,*** Michigan Office of Highway Safety Planning (OHSP), $39,890 (PI; Personal Share: $39,890 [100%]), October 2016 – September 2017.

(66) ***Work Zone Safety Grant,*** Federal Highway Administration, Iowa State University, $250,000 (PI, with Mehrnaz Ghamami, Ali Zockaie, Dong Zhao; Personal Share: $62,500 [25%]), February 2017 - October 2021.

(67) ***Direct Observation Survey of Safety Belt Use and Handheld Device use in Michigan for FY17,*** Michigan OHSP, $150,000 (PI; Personal Share: $150,000 [100%]), Oct 2016 – Sept 2017.

(68) ***Safe Routes to School (SR2S) FY 2017,*** Michigan Fitness Foundation (MFF), $112,614 (PI; Personal Share: $112,614 [100%]), October 2016 – September 2017.

(69) ***NCHRP Project 17-76: Guidance for the Setting of Speed Limits,*** National Cooperative Highway Research Program (NCHRP), Texas A&M Transportation Institute, $50,000 (MSU PI, Personal Share: $50,000 [100%]), February 2016 - May 2019.

(70) ***Research on Assessment of Countermeasure Gaps, Predictive Crash Analysis and Engineering Safety Programs in Michigan,*** Michigan Department of Transportation (MDOT), $328,885 (PI, with Mehrnaz Ghamami, Ali Zockaie; Personal Share: $164,443 [50%]), Dec 2016 – Dec 2018.

(71) ***The Interrelationships between Speed Limits, Geometry and Driver Behavior; SHRP2 Proof of Concept – Research to Assess Changes in Driver Behavior Utilizing NDS and RID Databases, Phase 2,*** Michigan Department of Transportation (MDOT), Iowa State University, $200,000 (MSU PI; Personal Share: $200,000 [100%]), September 2015 – February 2018.

(72) ***Direct Observation Survey of Safety Belt Use and Handheld Device use in Michigan for FY16,*** Michigan OHSP, $132,002 (PI; Personal Share: $132,002 [100%]), Oct 2015 – Sept 2016.

(73) ***Michigan Rural Safety Performance Function (SPFs) Development and Support,*** Michigan Department of Transportation (MDOT), $311,355 (PI; Personal Share: $311,355 [100%]), October 2015 – September 2017.

(74) ***Safe Routes to School (SR2S) FY 2016,*** Michigan Fitness Foundation (MFF), $75,034 (PI; Personal Share: $75,034 [100%]), October 2015 – September 2016.

(75) ***Michigan Urban Trunkline Segments Safety Performance Functions (SPFs) Development and Support,*** Michigan Department of Transportation (MDOT), $210,019 (PI; Personal Share: $210,019 [100%]), October 2015 – July 2016.

(76) ***City of Wixom GIS Database Assessment.*** City of Wixom, Michigan, $346,451 (PI; Personal Share: $346,451 [100%]), August 2015 - June 2022.

(77) ***The Interrelationships between Speed Limits, Geometry and Driver Behavior; SHRP2 Proof of Concept – Research to Assess Changes in Driver Behavior Utilizing NDS and RID Databases,*** Michigan Department of Transportation (MDOT), $100,000 (PI; Personal Share: $100,000 [100%]), February 2015 – September 2015.

(78) ***2015 Direct Observation Study for Commercial Motor Vehicle Safety Belt and Hand-Held Device Use in Michigan,*** Michigan Office of Highway Safety Planning (OHSP), $82,248 (PI with Tapan Datta; Personal Share: $41,124 [50%]), February 2015– September 2015.

(79) ***2015 Direct Observation Surveys of Safety Belt Use,*** Michigan OHSP, $150,868 (PI; Personal Share: $150,868 [100%]), January 2015 – September 2015.

(80) ***Direct Observation Study for Child Restraint Devices and Booster Seats Use and Misuse Rates in Michigan,*** Michigan OHSP, $118,497 (PI; Personal Share: $118,497 [100%]), January 2015 – September 2015.

(81) ***Safe Routes to School: FY 2015,*** Michigan Fitness Foundation (MFF), $74,803 (PI with Tapan Datta; Personal Share: $37,402 [50%]), October 2014 – September 2015.

(82) ***Development of Safety Performance Functions and Other Decision Support Tools to Assess Pedestrian and Bicycle Safety,*** Transportation Research Center for Livable Communities, United States Department of Transportation, $100,000 (co-PI; Personal Share $50,000 [50%]), September 2014 – June 2016.

(83) ***Safety Impact of Differential Speed Limits on Rural 2-Lane Highways in Montana (PI)***, Montana Department of Transportation, $217,619 (PI with P.T. Savolainen); Personal Share: $108,809 [50%]), April 2014 – Sept 2015.

(84) ***Michigan Urban Trunkline Intersections Safety Performance Functions (SPFs) Development and Support,*** Michigan Department of Transportation (MDOT), $250,000 (PI with P.T. Savolainen); Personal Share: $125,000 [50%]), March 2014 – March 2016.

(85) ***Safe Routes to School: FY 2014, Michigan Fitness Foundation (MFF),*** $74,957 (PI with T.K. Datta and P.T. Savolainen; Personal Share: $24,986 [33.3%]), October 2013 – September 2014.

(86) ***2014 Direct Observation Surveys of Safety Belt Use,*** Michigan OHSP, $145,000 (Co-PI with P.T. Savolainen and T.K. Datta); Personal Share: $72,500 [50%]), October 2013 – September 2014.

(87) ***2013 Work Zone Safety Grant,*** Federal Highway Administration, $750,000 (Co-PI with T.K. Datta, and P.T. Savolainen; Personal Share: $250,000 [33.3%]), Sept 2013 – Sept 2016.

(88) ***Balancing the Costs of Mobility Investments in Work Zones,*** MDOT, $250,000 (PI with P.T. Savolainen and T.K. Datta); Personal Share: $125,000 [50%]), April 2013 – March 2015.

(89) ***Evaluating Differential and Non-Differential Freeway Truck and Bus Speed Limits,*** MDOT, $410,060 (PI with P.T. Savolainen); Personal Share: $260,030 [50%]), Feb 2013 – Aug 2015.

(90) ***Evaluating Non-Freeway Rumble Strips – Phase 2,*** MDOT, $250,000 (Co-PI with T.K. Datta and P.T. Savolainen; Personal Share: $83,333 [33.3%]), February 2013 – September 2014.

(91) ***Direct Observation Study for Child Restraint Devices and Booster Seats Use and Misuse Rates in Michigan,*** Michigan Office of Highway Safety Planning (OHSP), $114,000 (Co-PI with T.K. Datta and P.T. Savolainen; Personal Share: $57,000 [50%]), October 2012 – September 2013.

(92) ***2012 Direct Observation Surveys of Safety Belt and Helmet Use***, Michigan OHSP, $180,000 (Co-PI with T.K. Datta and P.T. Savolainen; Personal Share: $60,000 [33.3%]), October 2012 – September 2013.

(93) ***Safe Routes to School: FY 2013,*** Michigan Fitness Foundation (MFF), $65,984 (PI with T.K. Datta and P.T. Savolainen; Personal Share: $21,995 [33.3%]), October 2012 – September 2013.

(94) ***Roadside Corridor Planning,*** MDOT, $190,000 (PI with T.K. Datta, P.T. Savolainen, and S. McElmurry; Personal Share: $47,500 [25%]), June 2012 – June 2013.

(95) ***GIS Database Assessment for the City of Wixom, Michigan,*** City of Wixom, $198,000 (PI with T.K. Datta and P.T. Savolainen; Personal Share: $66,000 [33.3%]), June 2012 – June 2016.

(96) ***NCHRP 17-59: Safety Impacts of Intersection Sight Distance,*** Vanassee, Hangen, Brustlin, Inc. (VHB), $74,909 (PI; Personal Share: $74,909 [100%]), June 2012 – November 2014.

(97) ***East Jefferson Avenue Traffic Impact Analysis,*** East Jefferson Corridor Collaborative, $20,000 (PI with T.K. Datta, Personal Share: $10,000 [50%]), June 2012 – June 2013.

(98) ***Study of High Tension Cable Barrier on Michigan Roadways,*** MDOT, $223,898, (Co-PI with P.T. Savolainen and T.K. Datta; Personal Share: $74,633 [33.3%]), October 2011 - Sept 2014.

(99) ***Transportation Reliability and Trip Satisfaction,*** MDOT, $172,901, (PI with P.T. Savolainen and T.K. Datta; Personal Share: $57,634 [33.3%]), October 2011 – September 2012.

(100) ***Safe Routes to School: FY 2012,*** Michigan Fitness Foundation, $188,263 (Co-PI with T.K. Datta and P.T. Savolainen; Personal Share: $62,754 [33.3%]), October 2011 – June 2012.

(101) ***2011 Work Zone Safety Grant,*** Federal Highway Administration, $1,991,171 (Co-PI with T.K. Datta, P.T. Savolainen, and C. Reddy; Personal Share: $597,351 [30%]), Oct 2011 – Sept 2014.

(102) ***Update of 2008 Strategic Highway Safety Plan,*** Michigan OHSP, $60,000 (Co-PI with T.K. Datta and P.T. Savolainen Personal Share: $20,000 [33.3%]), October 2011 – September 2014.

(103) ***Commercial Motor Vehicle Direct Observation Survey,*** Michigan OHSP, $83,298, (Co-PI with T.K. Datta and P.T. Savolainen; Personal Share: $27,766 [33.3%]), August 2011 – Sept 2012.

(104) ***Evaluating the Appropriate Level of Service for Michigan Rest Areas and Welcome Centers Considering Safety and Economic Factors,*** MDOT, $183,181 (PI with T.K. Datta and P.T. Savolainen; Personal Share: $61,060 [33.3%]), May 2011 – April 2012.

(105) ***Timing Issues for Traffic Signals Interconnected with Highway-Railroad Grade Crossings,*** MDOT, $89,758 (Co- PI with T.K. Datta and P.T. Savolainen; Personal Share: $29,919 [33.3%]), July 2011 – August 2012.

(106) ***Safe Routes to School,*** Michigan Fitness Foundation, $190,000 (Co-PI with T.K. Datta and P.T. Savolainen; Personal Share: $63,333 [33.3%]), October 2010 – September 2011.

(107) ***Direct Observation of Child Restraint and Booster Seat Use,*** Michigan OHSP, $128,891, (Co-PI with P.T. Savolainen; Personal Share: $64,446 [50%]), October 2010 – September 2011.

(108) ***Impact of Non-Freeway Rumble Strips - Phase I***, MDOT, $262,830 (Co- PI with Tapan Datta and P.T. Savolainen; Personal Share: $87,610 [33.3%]), June 2010 – June 2012.

(109) ***The Effect of Work Zone Drum Steady Burn Warning Lights on Motorist Safety***, MDOT, $200,000, (Co- PI with T.K. Datta and P.T. Savolainen; Personal Share: $66,667 [33.3%]), November 2010 – December 2011.

(110) ***NCHRP 3-95: Guidelines for Timing Yellow and All-Red Intervals at Signalized Intersections,*** VHB, Inc., $77,686 (PI; Personal Share: $77,686 [100%]), April 2009 – June 2011.

(111) ***Improving Driver's Ability to Safely and Effectively Use Roundabouts: Educating the Public to Negotiate Roundabouts***, Michigan Department of Transportation, $199,649 (Co- PI with T.K. Datta and P.T. Savolainen; Personal Share: $66,550 [33.3%]), November 2009 – March 2011.

(112) ***2010 Direct Observation Surveys of Booster Seat Use***, Michigan OHSP, $68,449, (Co- PI with P.T. Savolainen; Personal Share: $34,225 [50%]), October 2009 – September 2010.

(113) ***2009 Direct Observation Surveys of Child Restraint Device Use and Misuse***, Michigan OHSP, $79,093, (PI with P.T. Savolainen; Personal Share: $39,547 [50%]), October 2008 – Sept 2009.

(114) ***2009 Direct Observation Surveys of Booster Seat Use,*** Michigan OHSP, $81,555, (co- PI with P.T. Savolainen; Personal Share: $40,778 [50%]), October 2008 – September 2009.

(115) ***2009 Traffic and Engineering Services to MPOs***, Michigan OHSP, $55,000 (co- PI with T.K. Datta, Personal Share: $27,500 [50%]), October 2008 – September 2009.

(116) ***2008 Traffic and Engineering Services to MPOs***, Michigan OHSP, $100,000 (co- PI with T.K. Datta, Personal Share: $50,000 [50%]), October 2007 – September 2008.

B. Fellowships/Grants/Special Awards

(1) CE PhD student advisee Md. Shakir Mahmud, ITE International, Daniel B. Fambro Student Paper Award, https://www.ite.org/membership/awards1/daniel-b-fambro-student-paper-award/.

(2) CE MS student advisee Jordan Hankin, David Eisenhower Transportation Fellowship ($5,000), Federal Highway Administration, 2020-2021.

(3) CE MS student advisee Matt Motz, David Eisenhower Transportation Fellowship ($5,000), Federal Highway Administration, 2019-2020.

(4) CE PhD student advisee Steven Stapleton, David Eisenhower Transportation Fellowship ($35,000), Federal Highway Administration, 2018-2019.

(5) CE PhD student advisee Steven Stapleton, David Eisenhower Transportation Fellowship ($5000), Federal Highway Administration, 2017-2018.

(6) Fellow, MSU Academy for Global Engagement (AGE), 2017

III. PUBLICATION

Google Scholar Metrics: All: H-Index = 26; i10-Index = 76; Citation count = 2,797
Since 2020: H-Index = 19; i10-Index = 56; Citation count = 1,565

A. Refereed Journal Articles Published (* Denotes student co-author)

(1) *Gupta, N., *Cai, Q., Jashami, H., Savolainen, P., Gates, T., Barrette, T., Powell, W. A comparison of traffic crash and connected vehicle event data on a freeway corridor with Hard-Shoulder Running. *Accident Analysis & Prevention,* Volume 211, January 2025.

(2) *Keshari, S., *Mahmud, Md., *Pahari, S., *Overall, M., Babić, D., *Cavka, M., *Premo, S., Gates, T., Savolainen, P. Evaluating Driver Response to Bridge Deck Warning Systems During Winter Weather Conditions. *Transportation Research Record: Journal of the Transportation Research Board*, TRB, Washington, D.C., 2024.

(3) Chakraborty, M.*, Gates, T. Relationship between Horizontal Curve Geometry and Single-Vehicle Crash Occurrence on Rural Secondary Highways. *Transportation Research Record: Journal of the Transportation Research Board*, TRB, Washington, D.C., 2024.

(4) Hankin, J.*, Chakraborty, M.*, Gates, T., Savolainen P. Holpuch, T.*, Motz, M.* Evaluation of Auxiliary Signing for Driveway Assistance Devices at Low-Volume Access Points within One-Lane, Bidirectional Work Zones. *Transportation Research Record: Journal of the Transportation Research Board*, TRB, Washington, D.C., 2024.

(5) Mahmud Md.*, Babic, D., and Gates, T., A Comprehensive Review of Dynamic Speed Feedback Signs in Reducing Speed at Different Critical Locations. *Traffic & Transportation* Vol 36 (3), Promet, 2024.

(6) Mahmud Md.*, Jashami, H., Megat Johari M.*, Gupta N.*, Bamney A.*, Gates, T., Savolainen, P. Effects of Speed Feedback Trailer Positioning and Police Enforcement on Vehicular Speeds in Freeway Work Zone Lane Closures. *Transportation Research Record: Journal of the Transportation Research Board*, TRB, Washington, D.C., 2024

(7) Gupta, N.*, Jashami, H., Savolainen, P., Gates, T., Barrette, T., Powell, W. Examining the Relationship between Connected Vehicle Driving Event Data and Police-Reported Traffic Crash Data at the Segment-and Event Level. *Transportation Research Record: Journal of the Transportation Research Board*, TRB, Washington, D.C., 2024

(8) Mahmud, M.*, Gates, T., Megat-Johari, M.*, Jashami, H., Bamney, A.*, Savolainen, P. Do Dynamic speed feedback signs impact drivers differently based on speeding tendencies? Insights from applications at select critical roadway contexts. *Transportation Research Part F: Traffic Psychology and Behaviour* 98, 157-169, 2023.

(9) Chakraborty, M.*, Mahmud, M.*, Gates, T. Quantifying the Environmental Effects of Speed Limit Policy–A Case Study From Michigan, *ITE Journal* 93 (8), 2023.

(10) Chakraborty, M.*, Gates, T., Sinha, S. Causal analysis and classification of traffic crash injury severity using machine learning algorithms, *Data Science for Transportation* 5 (2), 12, 2023.

(11) Megat-Johari, N.*, Megat-Johari, M.*, Savolainen, P., Gates, T. Evaluation of enforcement and messaging campaign focused on reducing cell phone-related distracted driving. *Transportation Research Record: Journal of the Transportation Research Board*, TRB, Washington, D.C., 2023.

(12) Ingle A., Gates, T., Crash modification functions for rural skewed intersections. *Transportation Research Record: Journal of the Transportation Research Board*, TRB, Washington, D.C., 2023.

(13) Megat-Johari, M.*, Megat-Johari, N.*, Savolainen, P., Gates, T. Safety evaluation of freeway exit ramps with advisory speed reductions. *Transportation Research Record: Journal of the Transportation Research Board*, TRB, Washington, D.C., 2023.

(14) Chakraborty, M.*, Mahmud, M.*, Gates, T. Child restraint use and seating position of child passengers in motor vehicles and their correlations: application of a random-effects bivariate probit model. *Transportation Research Record: Journal of the Transportation Research Board*, TRB, Washington, D.C., 2022.

(15) Qu, T., Gates, T., Xu, C.*, Seguin, D.*, Kay, J.* The disparate impact of COVID-19 pandemic on walking and biking behaviors *Transportation Research Part D: Transport and Environment. Vol.* 112, 2022.

(16) Kay, J.*, Gates, T., Savolainen, P., Mahmud, M.* Safety performance of unsignalized median U-turn intersections. *Transportation Research Record: Journal of the Transportation Research Board*, TRB, Washington, D.C., 2022.

(17) Mahmud, M.*, Gates, T., Savolainen, P., Safaei, B.* Driver Response to a Dynamic Speed Feedback Sign at a Freeway Exit Ramp Considering the Sign Design and Installation Characteristics. *Transportation Research Record: Journal of the Transportation Research Board*, TRB, Washington, D.C., 2022.

(18) Mahmud, M.*, Bamney, A.*, Megat Johari, M.*, Jashami, H.*, Gates, T., Savolainen, P. Evaluating Driver Response to a Dynamic Speed Feedback Sign at Rural Highway Curves. *Transportation Research Record: Journal of the Transportation Research Board*, TRB, Washington, D.C., 2022.

(19) Kamjoo, E.*, Saedi, R.*, Zockaie, A., Ghamami, M., Gates, T., Talebpour, A*. Developing Car-Following Models for Winter Maintenance Operations Incorporating Machine Learning Methods. *Transportation Research Record: Journal of the Transportation Research Board*, TRB, Washington, D.C., 2022.

(20) Chakraborty, M.*, Gates, T., Assessing Safety Performance on Urban and Suburban Roadways of Lower Functional Classification: An Evaluation of Minor Arterial and Collector Roadway Segments. *Transportation Research Record: Journal of the Transportation Research Board*, TRB, Washington, D.C., 2022.

(21) Gupta, N.*, Mahmud, M.*, Jashami, H., Savolainen, P., Gates, T., Evaluating the Impacts of Freeway Speed Limit Increases on Various Speed Measures: Comparisons Between Spot-Speed,

Permanent Traffic Recorder, and Probe Vehicle Data. *Transportation Research Record: Journal of the Transportation Research Board*, TRB, Washington, D.C., 2022.

(22) Megat-Johari, M.*, Megat-Johari, N.*, Savolainen, P., Gates, T., Kassens-Noor, E. Does displaying safety messages on dynamic message signs have measurable impacts on crash risk? *Transportation Research Record: Journal of the Transportation Research Board*, TRB, Washington, D.C., 2022

(23) Chakraborty, M.*, Mahmud, M.*, Gates, T., and Sinha, S. Analysis and Prediction of Human Mobility in the United States during the Early Stages of the COVID-19 Pandemic using Regularized Linear Models, *Transportation Research Record: Journal of the Transportation Research Board*, TRB, Washington, D.C., 2022

(24) Ingle, A.*, Gates. T. Safety Performance of Rural Curved Corner Intersections with Regional Effects. *Transportation Research Record: Journal of the Transportation Research Board*, TRB, Washington, D.C., 2022.

(25) Singh, H.*, Ghamami, M., Nouri, H.*, Gates, T. Multi-objective framework for optimum configuration of human-driven and shared or privately owned autonomous vehicles, *International Journal of Sustainable Transportation*, 1-21, 2022.

(26) Kassens-Noor, E., Savolainen, P., Gates, T., Cai, M.*, Deaminada, T. Communicating safety with drivers via dynamic message signs. *Transportation Research Part F: Traffic Psychology and Behaviour* 81, 417-430, 2021.

(27) Megat-Johari, N.*, Megat-Johari, M.*, Savolainen, P., Gates, T., Kassens-Noor, E. Examining Driver Compliance with a Move-Over/Slow Down Law in Consideration of Vehicle Type and Messages Displayed on Upstream Dynamic Message Signs. *Transportation Research Record: Journal of the Transportation Research Board*, 2675 (12), 92-102, TRB, Washington, D.C., 2021

(28) Fakhrmoosavi, F.*, Saedi, R.*, Jazlan, F.*, Zockaie, A., Ghamami, M., Gates, T., Savolainen, P. Effectiveness of Green Warning Lights with Different Flashing Patterns for Winter Maintenance Operations. *Transportation Research Record: Journal of the Transportation Research Board*, 2675 (9), 1505-1521, TRB, Washington, D.C., 2021

(29) Mahmud, M.*, Gupta, N.*, Safaei, B.*, Jashami, H., Savolainen, P., Gates, T., Kassens-Noor, E. Evaluating the Impacts of Speed Limit Increases on Rural Two-Lane Highways using Quantile Regression. *Transportation Research Record: Journal of the Transportation Research Board*, 2675 (11), 740-753, TRB, Washington, D.C., 2021

(30) Mahmud, M.*, Motz, M.*, Holpuch, T.*, Hankin, J.*, Ingle, A.*, Gates, T., Savolainen, P. Driver Response to a Dynamic Speed Feedback Sign on Freeway Exit Ramps based on Sign Location, Interchange Type, and Time of Day. *Transportation Research Record: Journal of the Transportation Research Board*, 2675 (10), 1236-1247, TRB, Washington, D.C., 2021. **#Received the "Best Paper by Young First Author Award" from the TRB Committee on Traffic Control Devices.**

(31) Fitzpatrick, K., Das S., Gates, T., Dixon, K., Park, E. Considering Roadway Context in Setting Posted Speed Limits. *Transportation Research Record: Journal of the Transportation Research Board*, 2675 (8), 590-602, TRB, Washington, D.C., 2021

(32) Chakraborty, M.*, Singh, H.*, Savolainen, P, and Gates, T. Examining Correlation and Trends in Seatbelt Use among Occupants of the Same Vehicle using a Bivariate Probit Model, *Transportation Research Record: Journal of the Transportation Research Board*, 2675 (7), 288-298, TRB, Washington, D.C., 2021

(33) Gates. T., Mahmud, M.*, Ingle, A.*, Motz, M.*, Holpuch, T.*, Savolainen, P. Evaluation of Alternative Messages and Sign Locations on Driver Response to a Dynamic Speed Feedback Sign on a Freeway Interchange Ramp. *Transportation Research Record: Journal of the Transportation Research Board*, TRB, Washington, D.C., 2020. **#Received the "Best Paper Award" from the TRB Committee on Traffic Control Devices.** Gates' contribution = 40%. Citations= 0 https://doi.org/10.1177/0361198120959076.

(34) Ingle, A.*, Gates. T. Safety Performance of Rural Offset-T Intersections. *Transportation Research Record: Journal of the Transportation Research Board*, 2675 (2), 40-52, TRB, Washington, D.C., 2020. Gates' contribution = 25%. Citations= 0.

(35) Chakraborty, M., Gates, T. Association between Driveway Land Use and Safety Performance on Rural Highways. *Transportation Research Record: Journal of the Transportation Research Board*, 2675, 114-124, TRB, Washington, D.C., 2020. Gates' contribution = 25%. Citations= 0.

(36) Barnett, J., Gizinski, N., Mondragon-Parra, E., Siegel, J., Morris, D., Gates, T., Kassens-Noor, E., Savolainen, P. Automated vehicles sharing the road: Surveying detection and localization of pedalcyclists. *IEEE Transactions on Intelligent Vehicles,* 2021.

(37) Babic, D., Flolic, M., Babic, D., Gates, T. Road Markings and Their Impact on Driver Behaviour and Road Safety: A Systematic Review of Current Findings, *Journal of Advanced Transportation*, Hindawi, 2020. Gates' contribution = 20%. Citations = 0.

(38) Chakraborty, M.*, Stapleton, S.*, Ghamami, M., Gates, T. Safety Effectiveness of All-Electronic Toll Collection Systems. *Advances in Transportation Studies,* 2020. Gates' contribution = 10%. Citations = 1.

(39) Fakhrmoosavi, F.*, Kavianipour, M.*, Savolainen, P., and Gates, T. Comparisons in Cell Phone Use Rates between Talking and Manually Manipulating the Handheld Device. *Transportation Research Record: Journal of the Transportation Research Board*, TRB, Washington, D.C., 2020. Gates' contribution = 10%. Citations = 0.

(40) Saedi, R.*, Verma, R.*, Zockaie, A., Ghamami, M, and Gates, T. A Comparison of Support Vector and Non-linear Regression Models for Estimating Large-Scale Vehicular Emission, Incorporating Network-wide Fundamental Diagram for Heterogeneous Vehicles. *Transportation Research Record: Journal of the Transportation Research Board*, TRB, Washington, D.C., 2020. Gates' contribution = 10%. Citations = 0.

(41) Acosta-Rodriguez, L.*, Kwigizile, V., Oh, J, Gates, T. Presence of Additional Safety Belt Enforcement Increases Safety Belt Use by Drivers. *Transportation Research Record: Journal of the Transportation Research Board*, TRB, Washington, D.C., 2020. Gates' contribution = 25%. Citations = 0.

(42) Verma, R.*, Saedi, R.*, Zockaie, A., Gates, T. Behavioral Analysis of Drivers Following Winter Maintenance Trucks Enabled with Collision Avoidance System. *Transportation Research Record: Journal of the Transportation Research Board*, TRB, Washington, D.C., 2019. Gates' contribution = 25%. Citations= 0.

(43) Stapleton, S.*, Ingle, A.*, Gates. T. Factors Contributing to Deer–Vehicle Crashes on Rural Two-Lane Roadways in Michigan. *Transportation Research Record: Journal of the Transportation Research Board*, TRB, Washington, D.C., 2019. Gates' contribution = 25%. Citations= 0.

(44) Geedipally, S., Gates, T., Stapleton, S.*, Ingle, A.*, Avelar, R. Examining the Safety Performance and Injury Severity Characteristics of Rural County Roadways. *Transportation Research Record: Journal of the Transportation Research Board*, TRB, Washington, D.C., 2019. Gates' contribution = 10%. Citations= 0.

(45) Stapleton, S.*, Gates, T., Avelar, R., Geedipally, S., Saedi, R.* Safety Performance Functions for Low Volume Rural Stop-Controlled Intersections. *Transportation Research Record: Journal of the Transportation Research Board*, TRB, Washington, D.C., 2019. Gates' contribution = 25%. Citations= 1.

(46) Heqimi G.*, Gates, T., and Kay J.* Using Spatial Interpolation to Determine Impacts of Annual Snowfall on Traffic Crashes for Limited Access Freeway Segments. *Accident Analysis & Prevention,* Volume 121, December 2018, pp 202-212. Gates' contribution = 25%. Citations= 1.

(47) Stapleton, S.*, Ingle, A.*, Chakraborty, M.*, Gates, T., Savolainen, P. Safety Performance Functions for Rural Two-Lane County Road Segments. *Transportation Research Record: Journal*

of the Transportation Research Board, Volume 2672, Number 52, TRB, Washington, D.C., December 2018. Gates' contribution = 25%. Citations= 3.

(48) Saedi, R.*, Verma, R.*, Zockaie, A., Ghamami, M., Gates, T. A Framework for Incorporating the Network-Wide Fundamental Diagram into Large-Scale Emission Estimation. *Journal of Transport & Health*, Volume 9, June 2018, pp S54-S55. Gates' contribution = 10%. Citations= 7.

(49) Kay, J.*, Gates, T., Savolainen, P. Raising Speed Limits on Rural Highways: A Process for Identification of Candidate Non-Freeway Segments. *Transportation Research Record 2618: Journal of the Transportation Research Board*, TRB, Washington, D.C., 2017. **#Received the "Best Paper Award" from the TRB Committee on the Operational Effects of Geometrics.** Gates' contribution = 40%. Citations= 0.

(50) Stapleton, S.*, Kirsch, T., Gates, T., Savolainen, P. Factors Affecting Driver Yielding Compliance at Uncontrolled Midblock Crosswalks on Low Speed Roadways. *Transportation Research Record 2661: Journal of the Transportation Research Board*, TRB, Washington, D.C., 2017. **#Received the "Best Paper Award" from the TRB Committee on Pedestrians.** Gates' contribution = 25%. Citations= 7.

(51) Hamzeie R.*, Savolainen P., Gates, T. Driver Speed Selection and Crash Risk: Insights from the Naturalistic Driving Study. *Journal of Safety Research*, November 2017. Gates' contribution = 20%. Citations= 10.

(52) Rista E.*, Barrette T.*, Hamzeie R.*, Savolainen P., Gates, T. Work Zone Safety Performance: Comparison of Alternative Traffic Control Strategies. *Transportation Research Record 2617: Journal of the Transportation Research Board*, TRB, Washington, D.C., 2017. Gates' contribution = 10%. Citations= 5.

(53) Hamzeie, R.*, Vafaei, B.*, Kay, J.*, Savolainen, P., and Gates, T. A Short-Term Evaluation of the Transition from a Differential to Uniform Speed Limit for Trucks and Buses on Two-Lane Highways. *Transportation Research Record 2637: Journal of the Transportation Research Board*, TRB, Washington, D.C., 2017. Gates' contribution = 20%. Citations= 2.

(54) Russo, B.*, Barrette, T.*, Morden, J.*, Savolainen, P. and Gates, T. Examination of Factors Associated with Use Rates after Transition from a Universal to Partial Motorcycle Helmet Use Law. *Traffic Injury Prevention*, Volume 18, Issue 1, 2017, pp 95-101 2017-01. Gates' contribution = 10%. Citations= 4.

(55) Russo, B.*, Savolainen, P., Gates, T., Kay, J.*, and Frazier, S.* Driver Speed Selection on High-Speed Two-Lane Highways: Comparing Speed Profiles between Uniform and Differential Speed Limits. *Traffic Injury Prevention*, Vol. 18, Issue 5, 2017. Gates' contribution = 25%. Citations= 2.

(56) Himes, S., Eccles, K., Peach K., Monsere, C.M., Gates, T.J. Estimating the Safety Effects of Intersection Sight Distance at Unsignalized Intersections. *Transportation Research Record 2588: Journal of the Transportation Research Board*, TRB, Washington, D.C., 2016. Gates' contribution = 20%. Citations= 5.

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(1) Keshari, S., Pahari, S., Gates, T., Savolainen, P. Evaluating Driver Response to a Slippery Curve Warning System at Rural Horizontal Curves, 104th *Annual Meeting of the Transportation Research Board*, Washington, D.C., 2025. **#Received the "Best Paper Award" from the TRB Committee on Traffic Control Devices.**

(2) Cavka, M, Overall, M., Pahari, S., Premo, S., Gates, T. Evaluating Dynamic Speed Feedback Signs at Roundabouts in Rural-to-Urban Transition Areas on Rural Highways and Freeway Exit Ramps, 104th *Annual Meeting of the Transportation Research Board*, Washington, D.C., 2025.

(3) Kay J., Gates, T. A Data-Driven Approach to Identify Candidate Bridge Decks for Winter Weather Warning System Deployments, 104th *Annual Meeting of the Transportation Research Board*, Washington, D.C., 2025.

(4) Kay J., Gates, T. Current Practices in Channelized Right Turn Design for Pedestrians in the United States, 104th *Annual Meeting of the Transportation Research Board*, Washington, D.C., 2025.

(5) Bahrami, V., Detweiler, A., Keshari, S., Gupta, N., Hankin, J., Chakraborty, M., Gates, T., Savolainen, P. Driver Comprehension of Driveway Assistance Devices (DAD) for Work Zones: Evidence from a Nationwide Survey, 104th *Annual Meeting of the Transportation Research Board*, Washington, D.C., 2025.

(6) Pahari, S., Keshari, S., Premo, S., Cavka, M., Overall, M., Mahmud, Md., Racine, J., Gates T., Savolainen, P. Evaluating Driver Response to a Speed Feedback Trailer at Median Crossovers within Freeway Work Zones, 104th *Annual Meeting of the Transportation Research Board*, Washington, D.C., 2025.

(7) Pahari, S., Keshari, S., Overall, M., Premo, S., Mahmud, Md., Racine, J., Gates T., Savolainen, P. Evaluating Driver Response to Speed Feedback Trailers and Digital Speed Limit Signs Positioned Near the Work Area within Freeway Lane Closures, 104th *Annual Meeting of the Transportation Research Board*, Washington, D.C., 2025.

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(11) Pahari, S., Keshari, S., Overall, M., Premo, S., Cavka, M., Mahmud M., Gates, T., Savolainen, P. Evaluating the Combined Use of Speed Feedback Trailers and Law Enforcement Vehicles at Freeway Work Zone Lane Closures, 103rd *Annual Meeting of the Transportation Research Board*, Washington, D.C., 2024.

(12) Mahmud, M., Jashami, H., Megat-Johari, M., Gupta, N., Bamney, A., Gates, T., Savolainen, P. Effects of Speed Feedback Trailer Positioning and Presence of Law Enforcement on Driver Behavior in Freeway Work Zone Lane Closures, 102nd *Annual Meeting of the Transportation Research Board*, Washington, D.C., 2023.

(13) Chakraborty, M., Gates, T. Relationship between Horizontal Curve Geometry and Single-Vehicle Crash Occurrence on Rural Secondary Highways. 102nd *Annual Meeting of the Transportation Research Board*, Washington, D.C., 2023.

(14) Hankin, J., Chakraborty, M., Gates, T., Savolainen P. Holpuch, T., Motz, M. Evaluation of Auxiliary Signing for Driveway Assistance Devices at Low-Volume Access Points within One-Lane, Bidirectional Work Zones. 102nd *Annual Meeting of the Transportation Research Board*, Washington, D.C., 2023.

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(24) Chakraborty, M., Gates, T., Assessing Safety Performance on Urban and Suburban Roadways of Lower Functional Classification: An Evaluation of Minor Arterial and Collector Roadway Segments. 101st *Annual Meeting of the Transportation Research Board*, Washington, D.C., 2022.

(25) Gupta, N., Mahmud, M., Jashami, H., Savolainen, P., Gates, T., Evaluating the Impacts of Freeway Speed Limit Increases on Various Speed Measures: Comparisons Between Spot-Speed, Permanent Traffic Recorder, and Probe Vehicle Data. 101st *Annual Meeting of the Transportation Research Board*, Washington, D.C., 2022.

(26) Megat-Johari, M., Megat-Johari, N., Savolainen, P., Gates, T., Kassens-Noor, E. Does displaying safety messages on dynamic message signs have measurable impacts on crash risk? 101st *Annual Meeting of the Transportation Research Board*, Washington, D.C., 2022.

(27) Chakraborty, M., Mahmud, M., Gates, T., and Sinha, S. Analysis and Prediction of Human Mobility in the United States during the Early Stages of the COVID-19 Pandemic using Regularized Linear Models, 101st *Annual Meeting of the Transportation Research Board*, Washington, D.C., 2022.

(28) Ingle, A., Gates. T. Safety Performance of Rural Curved Corner Intersections with Regional Effects. 101st *Annual Meeting of the Transportation Research Board*, Washington, D.C., 2022.

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(32) Fitzpatrick, K., Das S., Gates, T., Dixon, K., Park, E. Considering Roadway Context in Setting Posted Speed Limits. 100*th Annual Meeting of the Transportation Research Board*, Washington, D.C., 2021.

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(34) Chakraborty, M., Gates, T. Relationship between Horizontal Curve Density and Safety Performance on Rural Two-Lane Road Segments by Road Jurisdiction and Surface Type. 100*th Annual Meeting of the Transportation Research Board*, Washington, D.C., 2021.

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(37) Gates. T., Mahmud, M., Ingle, A., Motz, M., Holpuch, T., Savolainen, P. Evaluation of Alternative Messages and Sign Locations on Driver Response to a Dynamic Speed Feedback Sign on a Freeway Interchange Ramp. *99th Annual Meeting of the Transportation Research Board*, Washington, D.C., 2020.

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(43) Acosta-Rodriguez, L., , Oh, J, Gates, T., What Is the Impact Provided by the Presence of Additional Safety Belt Enforcement to Driver Safety Belt Use? *99th Annual Meeting of the Transportation Research Board*, Washington, D.C., 2020.

(44) Gates, T., Evaluation of Message and Sign Location on Driver Response to a Dynamic Speed Feedback Sign on Freeway Interchange Ramps, *International Symposium on Traffic Signs and Pavement Markings*, International Road Federation, University of Zagreb, Croatia, 2019.

(45) Gates, T., Improving Thermoplastic Marking Performance on Coarse Road Surfaces, *International Symposium on Traffic Signs and Pavement Markings*, International Road Federation, University of Zagreb, Croatia, 2019.

(46) Gates, T., Raising Speed Limits on Rural Highways – Have we Reached our Limit? *Transportation Research Center for Livable Communities; 6th Annual Summer Conference;* Western Michigan University; Kalamazoo, MI, 2019.

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(48) Geedipally, S., Gates, T., Stapleton, S., Ingle, A., Avelar, R. Examining the Safety Performance and Injury Severity Characteristics of Rural County Roadways. *98th Annual Meeting of the Transportation Research Board*, Washington, D.C., 2019.

(49) Biswas, S., Ghosh, I, Gates, T. Conceptual Method for Estimating Start Up Loss Time Under Heterogeneous Traffic Condition. *98th Annual Meeting of the Transportation Research Board*, Washington, D.C., 2019.

(50) Stapleton, S., Gates. T. Empirical Analysis of the Impact of Vehicle Type on Injury Severity in Vehicle-Pedestrian Crashes. *98th Annual Meeting of the Transportation Research Board*, Washington, D.C., 2019.

(51) Verma, R., Saedi, R., Zockaie, A., Gates, T. Behavioral Analysis of Drivers Following Winter Maintenance Trucks Enabled with Collision Avoidance System. *98th Annual Meeting of the Transportation Research Board*, Washington, D.C., 2019.

(52) Stapleton, S., Ingle, A., Gates. T. Speed-Related Characteristics Contributing to Vehicle-Deer Crashes on Rural Two-Lane Roadways. *98th Annual Meeting of the Transportation Research Board*, Washington, D.C., 2019.

(53) Stapleton, S., Gates, T., Avelar, R., Geedipally, S., Saedi, R. Safety Performance Functions for Low Volume Rural Stop-Controlled Intersections. *98th Annual Meeting of the Transportation Research Board*, Washington, D.C., 2019.

(54) Saedi, R., Verma, R., Zockaie, A., Ghamami, M., Gates, T., Network-wide Emission Estimation by Incorporating Network Fundamental Diagram, *98th Annual Meeting of the Transportation Research Board*, Washington, D.C., 2019.

(55) Singh, H., Ghamami, M., Nouri, H, Gates, T. Developing Strategies for Optimum Fleet Assignment of Conventional, Autonomous and Shared Autonomous Vehicles in an Urban Setting. *98th Annual Meeting of the Transportation Research Board*, Washington, D.C., 2019.

(56) Stapleton, S., Ingle, A., Chakraborty, M., Gates, T., Savolainen, P. Safety Performance Functions for Rural Two-Lane County Road Segments. *97th Annual Meeting of the Transportation Research Board*, Washington, D.C., 2018.

(57) Gates, T., Savolainen, P., Kay, J. Speed Limit Policy Preferences for Two-Lane Rural Highways: A Survey of Montana Road Users and Trucking Industry Personnel. *97th Annual Meeting of the Transportation Research Board*, Washington, D.C., 2018.

(58) Stapleton, S. and Gates, T. Evaluation of the Relative Safety of Pedestrian Infrastructure using Driver Behavior and Conflict as Surrogates for Crashes. *Road Safety and Simulation Conference*, The Hague, Netherlands, October 2017.

(59) Rista, E., Barrette, T., Hamazeie, R., Savolainen, P, Gates, T. Work Zone Safety Performance: Comparison of Alternative Traffic Control Strategies. *96th Annual Meeting of the Transportation Research Board*, Washington, D.C., 2017.

(60) Savolainen, P.T., Gates, T.J. Datta, T.K., and Nicita, N. Evaluation of Non-Freeway Rumble Strips. *96th Annual Meeting of the Transportation Research Board*, Washington, D.C., 2017.

(61) Gates, T.J., Savolainen, P.T., and Kay, J.J. Speed Limit Policy Preferences for Two-Lane Rural Highways: A Survey of Montana Road Users and Trucking Industry Personnel, *96th Annual Meeting of the Transportation Research Board*, Washington, D.C., 2017.

(62) Hamzeie, R., Savolainen, P.T., and Gates, T.J. Assessing the Interrelationship Between Speed Limits, Geometry, and Driver Behavior. *96th Annual Meeting of the Transportation Research Board*, Washington, D.C., 2017.

(63) Gates, T.J., R. Hamzeie, P.T. Savolainen, and T. Barrette. Development of a Strategy to Prioritize Candidate Locations for Speed Limit Increases on a High-Speed Undivided Highway Network, *Road Safety on Five Continents (RS5C),* Rio De Janeiro, Brazil, May 2016

(64) Himes, S., Eccles, K., Peach K., Monsere, C.M., Gates, T.J. Estimating the Safety Effects of Intersection Sight Distance at Unsignalized Intersections. *95th Annual Meeting of the Transportation Research Board*, Washington, D.C., 2016.

(65) Russo, B., Savolainen P.T., Gates, T.J., and Kirsch T. Development of Crash Modification Factors for Installation of High-Tension Cable Median Barrier. *95th Annual Meeting of the Transportation Research Board*, Washington, D.C., 2016.

(66) Gates, T.J. and Savolainen P.T. Economic Analysis of 65-mph Speed Limits on Rural Nonfreeways, *95th Annual Meeting of the Transportation Research Board*, Washington, D.C., 2016.

(67) Hamzeie, R., Russo, B.J., Savolainen, P.T., Gates, T.J., Kay, J.J, Frazier, S., and Finkelman, J. Assessing the Safety Performance of High-Speed Two-Lane Highways with Differential Speed Limits for Trucks and Buses, *95th Annual Meeting of the Transportation Research Board*, Washington, D.C., 2016.

(68) Russo, B.J., Savolainen, P.T., Gates, T.J., Kay, J.J, and Frazier, S. Driver Speed Selection on High-Speed Two-Lane Highways: Comparing Speed Profiles between Uniform and Differential Speed Limit, *95th Annual Meeting of the Transportation Research Board*, Washington, D.C., 2016.

(69) Rista, E., Barrette, T., Hamazeie, R., Savolainen, P, Gates, T. Work Zone Safety Performance: A Comparison of Alternative Traffic Control Strategies, *Road Safety and Simulation Conference (RSS)*, Orlando, Florida, 2015.

(70) Kay, J.J., P.T. Savolainen, T.J. Gates, T.K. Datta, J. Finkelman, and B. Hamadeh. Safety Impacts of Michigan's Statewide Centerline Rumble Strip Program. *94th Annual Meeting of the Transportation Research Board*, Washington, D.C., 2015.

(71) Gates, T.J. and P.T. Savolainen. Economic Analysis of Speed Limit Policy Impacts. *94th Annual Meeting of the Transportation Research Board*, Washington, D.C., 2015.

(72) Russo, B.J., E. Rista, P.T. Savolainen, T.J. Gates, and S. Frazier. Analysis of Vehicle Speed Characteristics among States with Uniform and Differential Speed Limit Policies. *94th Annual Meeting of the Transportation Research Board*, Washington, D.C., 2015.

(73) Savolainen, P.T., and T.J. Gates. Freeway Crash Trends in Relation to Posted Speed Limits: Contrasts Between Cross-Sectional and Before-and-After Evaluations. *94th Annual Meeting of the Transportation Research Board*, Washington, D.C., 2015.

(74) Morden, J., B.J. Russo, P.T. Savolainen, and T.J. Gates. Examination of Factors Associated with Motorcycle Helmet Use after Transition from Universal to Partial Helmet Law. *94th Annual Meeting of the Transportation Research Board*, Washington, D.C., 2015.

(75) Russo, B.J., P.T. Savolainen, T.J. Gates, and T. Kirsch. Evaluating Safety Impacts of High-Tension Cable Median Barrier Installation Program. *94th Annual Meeting of the Transportation Research Board*, Washington, D.C., 2015..

(76) Davis, A. E. Hacker, P.T. Savolainen, and T.J. Gates. A Longitudinal Analysis of Rural Interstate Fatalities in Relation to Speed Limit Policies. *94th Annual Meeting of the Transportation Research Board*, Washington, D.C., 2015.

(77) Gates, T.J., P.T. Savolainen, and H. Maria, Impact of Automated Red Light Running Enforcement Cameras on Driver Behavior: Guidance for Timing of Yellow Change Intervals, *93rd Annual Meeting of the Transportation Research Board*, January 2014.

(78) P.T. Savolainen, and T.J. Gates, An Examination of Factors Associated with Child Restraint Device Use: Application of a Random Effects Model Considering Driver, Vehicle, and Site Characteristics, *93rd Annual Meeting of the Transportation Research Board*, January 2014.

(79) Russo, B.J., A. Davis, S. Frazier, P.T. Savolainen, and T.J. Gates, Evidence of Mixed Safety Performance Among Roundabouts Converted from Signalized Intersections, *93rd Annual Meeting of the Transportation Research Board*, January 2014.

(80) Barrette, T.P., T. Kirsch, P.T. Savolainen, B.J. Russo, and T.J. Gates, Aggregate and Disaggregate-level Assessments of the Effects of Helmet Use and Universal Helmet Laws on Motorcyclist Injuries and Fatalities, *93rd Annual Meeting of the Transportation Research Board*, January 2014.

(81) McArthur, A., P.T. Savolainen, and T.J. Gates, Spatial Analysis of Child Pedestrian and Bicycle Crashes: Development of a Safety Performance Function for Areas Adjacent to K-8 Schools, *93rd Annual Meeting of the Transportation Research Board*, January 2014.

(82) Kay, J.J., T.J. Gates, P.T. Savolainen, A. McArthur, and B.J. Russo, Empirical Models of Demand Levels and Turn-in Rates at Roadside Rest Areas, *93rd Annual Meeting of the Transportation Research Board*, January 2014.

(83) Gates, T.J., P.T. Savolainen, A. McArthur, P. Andridge, T. Kirsch, S.P. McElmurry, A Framework for Suitability Assessment of Non-Traditional Development within the Roadside Right-of-Way, *93rd Annual Meeting of the Transportation Research Board*, January 2014.

(84) Fawaz, A.M., P.T. Savolainen, and T.J. Gates, Comparison of the Safety Performance of Single- and Multi-lane Roundabouts, *93rd Annual Meeting of the Transportation Research Board*, January 2014.

(85) Gates, T.J., P.T. Savolainen, and H. Maria, Predicting Red Light Running at Signalized Intersections Using Nested Logit Models, *93rd Annual Meeting of the Transportation Research Board*, January 2014.

(86) Russo, B.J., J.J. Kay, P.T. Savolainen, and T.J. Gates, Examination of Factors Associated with Safety Belt and Cell Phone Use by Drivers Using a Bivariate Probit Model, *93rd Annual Meeting of the Transportation Research Board*, January 2014.

(87) Fawaz, A.M., P.T. Savolainen, and T.J. Gates, Comparison of the Safety Performance of Single- and Multi-lane Roundabouts, *4th International Conference on Road Safety and Simulation*, October 2013.

(88) Gates, T.J., P.T. Savolainen, and H. Maria, Predicting Red Light Running at Signalized Intersections Using Nested Logit Models, *4th International Conference on Road Safety and Simulation*, October 2013.

(89) Russo, B.J., P.T. Savolainen, and W.H. Schneider, Comparison of Factors Affecting Injury Severity in Angle Collisions by Fault Status Using a Bivariate Ordered Probit Model, *4th International Conference on Road Safety and Simulation*, October 2013.

(90) Russo, B.J., J.J. Kay, P.T. Savolainen, and T.J. Gates, Examination of Factors Associated with Safety Belt and Cell Phone Use by Drivers Using a Bivariate Probit Model, *4th International Conference on Road Safety and Simulation*, October 2013.

(91) Todd, R.G., T.J. Gates, and P.T. Savolainen, "Evaluating Traveler Preferences and Values for Public Rest Areas Compared to Commercial Service Facilities". Transportation Research Board 92nd Annual Meeting, Washington, D.C., Jan 2013.

(92) Gates, T.J., P.T. Savolainen, T.K. Datta, and R.G. Todd, "Economic Assessment of Public Rest Areas and Traveler Information Centers on Limited Access Freeways". Transportation Research Board 92nd Annual Meeting, Washington, D.C., Jan 2013.

(93) Kay, J., P.T. Savolainen, and T.J. Gates, "An Evaluation of the Impacts of a Share the Road Sign on Driver Behavior Near Bicyclists". Transportation Research Board 92nd Annual Meeting, Washington, D.C., Jan 2013.

(94) McArthur, A., P.T. Savolainen, and T.J. Gates, "The Effects of Public Rest Areas on Fatigue-Related Crashes". Transportation Research Board 92nd Annual Meeting, Washington, D.C., Jan 2013.

(95) Gates, T.J., P.T. Savolainen, T.K. Datta, R.G. Todd, B. Russo, and J. Morena, "Impacts of Centerline and Shoulder Rumble Strips on Vehicular Lateral Lane Position and Passing Maneuvers on High-Speed Two-Lane Rural Roadways". Transportation Research Board 91st Annual Meeting, Washington, D.C., Jan 2012.

(96) Gates, T.J., H.W. McGee, K.D. Moriarty, and H.U. Maria, "A Comprehensive Evaluation of Driver Behavior to Establish Parameters for Timing of Yellow Change and Red Clearance Intervals". Transportation Research Board 91st Annual Meeting, Washington, D.C., Jan 2012.

(97) Moriarty, K.D., H.W. McGee, and T.J. Gates, "Guidelines for Timing Yellow and Red Intervals at Signalized Intersections". Transportation Research Board 91st Annual Meeting, Washington, D.C., Jan 2012.

(98) Savolainen, P.T., J. Kawa, and T.J. Gates, "Examining Statewide Public Perceptions of Roundabouts through a Web-Based Survey". Transportation Research Board 91st Annual Meeting, Washington, D.C., Jan 2012.

(99) Savolainen, P.T., T.J. Gates, R.G. Todd, T.K. Datta, and J. Morena, "Assessing the Influence of Centerline Rumble Strips on Motor Vehicle Lateral Placement When Passing Bicyclists." Transportation Research Board 91st Annual Meeting, Washington, D.C., Jan 2012.

(100) Savolainen, P.T., J. Kawa, A. McArthur and T.J. Gates, "Review of Roundabout Public Information and Educational Programs and Materials". Transportation Research Board 91st Annual Meeting, Washington, D.C., Jan 2012.

(101) Savolainen, P.T., T.J. Gates, A. Fawaz, T.K. Datta, and J. Morena, "Evaluation of Centerline Rumble Strip Impacts on Short-Term Pavement Performance". Transportation Research Board 91st Annual Meeting, Washington, D.C., Jan 2012.

(102) Gates, T.J., Savolainen, P.T., Datta, T.K., and P. Nannapaneni, "Nighttime Luminance Comparison of Work Zone Channelizing Drums With and Without Steady Burn Warning Lights". Transportation Research Board 90th Annual Meeting, Washington, D.C., Jan 2011.

(103) Gates, T.J., Savolainen, P.T., Datta, T.K., and P. Nannapaneni, "Evaluation of Driver Behavior Impacts Associated with the Use of Steady Burn Warning Lights on Channelizing Drums in Work Zones". Transportation Research Board 90th Annual Meeting, Washington, D.C., Jan 2011.

(104) Savolainen, P.T., Gates, T.J., and T.K. Datta, "Implementation of Targeted Pedestrian Traffic Enforcement Programs in an Urban Environment". Transportation Research Board 90th Annual Meeting, Washington, D.C., Jan 2011.

(105) Savolainen, P.T., Das, A., Gates, T.J., and T.K. Datta, "Cell Phone Use and Crash Patterns Among Michigan Drivers", Transportation Research Board 90th Annual Meeting, Washington, D.C., Jan 2011.

(106) Savolainen, P.T., Gates, T.J., and T.K. Datta, "Evaluation of the Effectiveness of a Comprehensive Pedestrian Safety Program in a Major City", Transportation Research Board 90th Annual Meeting, Washington, D.C., Jan 2011.

(107) Gates, T.J. and D.A. Noyce, "Dilemma Zone Driver Behavior as a Function of Vehicle Type, Time of Day, and Platooning". Transportation Research Board 89th Annual Meeting, Washington, D.C., Jan 2010.

(108) Savolainen, P.T., Datta, T.K., Gates, T.J., Ghosh, I., Dey, K., and T. Karra, "Assessment of Pilot Pedestrian Enforcement Programs in the City of Detroit", Transportation Research Board 89th Annual Meeting, Washington, D.C., Jan 2010.

(109) Gates, T.J., P.T. Savolainen, T.K. Datta, and N.B. Buck, "Effect of Pedestrian Safety Retraining for Elementary and Middle School Students". Transportation Research Board 89th Annual Meeting, Washington, D.C., Jan 2010.

(110) Savolainen, P.T., T.K. Datta, I. Ghosh, and T.J. Gates, "Impacts of a Dynamically Activated Emergency Vehicle Warning Sign on Driver Behavior at Urban Intersections", Transportation Research Board 89th Annual Meeting, Washington, D.C., Jan 2010.

(111) Gates, T.J., T.K. Datta, P.T. Savolainen, and N. Buck, "Evaluation of a Pedestrian Safety Educational Program for Elementary and Middle School Children". Transportation Research Board 88th Annual Meeting, Washington, D.C., January 2009.

(112) Gates, T.J., X. Qin, and D.A. Noyce, "Evaluation of an Experimental Transverse-Bar Pavement Marking Treatment on Freeway Curves". Transportation Research Board 87th Annual Meeting, Washington, D.C., Jan 2008.

(113) Gates, T.J., D.A. Noyce, L. Laracuente, and E.V. Nordheim, "Analysis of Dilemma Zone Driver Behavior at Signalized Intersections". Transportation Research Board 86th Annual Meeting, Washington, D.C., Jan 2007.

(114) Gates, T.J., D.A. Noyce, V. Talada, and L. Hill, "The Safety and Operational Effects of "Road Diet" Conversions in Minnesota". Transportation Research Board 86th Annual Meeting, Washington, D.C., Jan 2007.

(115) Gates, T.J., D.A. Noyce, A.R. Bill, and N. VanEe, "Are We Getting Slower? Updated Recommended Walking Speeds for Pedestrian Clearance", Institute of Transportation Engineers 76th Annual Meeting, Milwaukee, WI, Aug 2006.

(116) Gates, T.J., D.A. Noyce, A.R. Bill, and N. VanEe, "Recommended Walking Speeds for Pedestrian Clearance Timing". Transportation Research Board 85th Annual Meeting, Washington, D.C., Jan 2006.

(117) Gates, T.J., D.A. Noyce, and P.H. Stine, "The Safety and Cost-Effectiveness of Approach Guardrail for Bridges on Low Volume Roads". Transportation Research Board 85th Annual Meeting, Washington, D.C., Jan 2006.

(118) Gates, T.J., "Dynamic Red-Light-Hold System: Expectations from Milwaukee Installations". Institute of Transportation Engineers 2005 Technical Conference and Exhibit, Las Vegas, NV, Feb 2005.

(119) Spiegelman, C. and T.J. Gates, "Post-Hoc Quantile Test for One-way ANOVA Using Double Bootstrap Method". Transportation Research Board 84th Annual Meeting, Washington, D.C., Jan 2005.

(120) Gates, T.J., P.J. Carlson, and H.G. Hawkins, "Operational Effectiveness of Warning and Regulatory Signs with Enhanced Conspicuity Properties". Transportation Research Board 83rd Annual Meeting, Washington, D.C., Jan 2004.

(121) Gates, T.J., S.D. Schrock, and J.A. Bonneson. "Comparison of Portable Speed Measurement Devices". Transportation Research Board 83rd Annual Meeting, Washington, D.C., Jan 2004.

(122) Gates, T.J., H.G. Hawkins, and R.T. Ewart., "Effectiveness of a Rear-Facing Flashing Beacon in School Speed Limit Sign Assemblies". Transportation Research Board 83rd Annual Meeting, Washington, D.C., Jan 2004.

(123) Gates, T.J., S.T. Chrysler, and H.G. Hawkins, "Innovative Measures of Effectiveness for Wider Pavement Markings". Transportation Research Board 16th Biennial Visibility Symposium, Iowa City, IA, June 2002.

(124) Gates, T.J., "The Use of Wider Longitudinal Pavement Markings in the United States". Transportation Research Board 16th Biennial Visibility Symposium, Iowa City, IA, June 2002.

(125) Gates, T.J., "Worldwide Use of Wider Pavement Markings". American Traffic Safety Services Association (ATSSA) 32nd Annual Convention and Traffic Expo, Dallas, Texas, February 2002.

(126) Gates, T.J., "The Use of Wider Longitudinal Pavement Markings in the United States and Canada". Transportation Research Board 81st Annual Meeting, Washington, D.C., Jan 2002.

(127) Gates, T.J., "Integrating Colleges and Universities into Regional ITS Planning – Michigan State University's Experience". Institute of Transportation Engineers 71st Annual Meeting, Chicago, IL. Aug 2001.

(128) Gates, T.J., "Use of Wider Pavement Markings". AASHTO Subcommittee on Traffic Engineering Semi-Annual Meeting, Portland, ME. June 2001.

(129) Gates, T.J., "Converting Old Traffic Circles to Modern Roundabouts: Michigan State University Case Study". Institute of Transportation Engineers 70th Annual Meeting, Nashville, Tennessee. Aug 2000.

D. Invited Presentations and/or Refereed Local/Regional Presentations (presenter(s) underlined)

(1) Gates, T. and Kay, J. NCHRP 03-139 Progress Update: Development of a Revised Speed Limit Expert System, AASHTO Traffic Engineering Committee Meeting, Portland, Maine, June 2024.

(2) Gates, T. and Kay, J. NCHRP 03-139 Progress Update: Development of a Revised Speed Limit Expert System, AASHTO Traffic Engineering Committee Meeting, Tacoma, Washington, June 2023.

(3) Gates, T. Managing Speeds in Critical Highway Contexts using Speed Feedback Signs, Michigan County Engineers Workshop, Sault Ste. Marie, Michigan, February 2023.

(4) Gates, T. Alternative Methods for Conducting Speed Studies - Equipment and Insights from MSU Research, Michigan County Engineers Workshop, Bellaire, Michigan, February 2022.

(5) Gates, T. Evaluation of Alternative Messages and Sign Locations on Driver Response to a Dynamic Speed Feedback Sign on a Freeway Interchange Ramp, Annual Statewide Signing Conference; Michigan Department of Transportation; Lansing, MI, December 2019.

(6) Gates T., Safety Belt and Cell Phone Use by Commercial Motor Vehicle Occupants in Michigan, Michigan Traffic Safety Summit, East Lansing, MI, March 2019.

(7) Gates T., Impacts of Raising Speed Limits on Rural Highways, Spring Technical Conference, Institute of Transportation Engineers - Michigan Section, Lansing, MI, March 2019.

(8) Gates T., Kirsch, T., Savolainen P, Stapleton, S. Development of Safety Performance Functions and Other Decision Support Tools to Assess Pedestrian and Bicycle Safety. Summer Conference of the Transportation Research Center for Livable Communities, Western Michigan University, June 2017.

(9) Gates, T., Savolainen P., and Kay, J. Raising Speed Limits on Rural Highways: A Process for Identification of Candidate Segments. Midcontinent Transportation Research Symposium, Ames, Iowa, August, 2017.

(10) Gates, T. Michigan Safety Performance Functions (SPF). Michigan Safety Summit, East Lansing, Michigan, March 2017.

(11) Gates, T, Stapleton, S, and Kirsch, T. "Prediction of Pedestrian Crashes at Midblock Crossing Areas using Site and Behavioral Characteristics". Transportation Research Center for Livable Communities, Summer Conference, June 2016.

(12) Gates, T, and Savolainen P. "Evaluation of Michigan's Statewide Centerline Rumble Strip Implementation Program", ITE Midwest/Great Lakes District Meeting, Chicago, IL, June 2016

(13) Gates, T., Savolainen P., and Kay, J. "A Process for Selecting Candidate Rural Highway Segments for Speed Limit Increases in Michigan", ITE Midwest/Great Lakes District Meeting, Chicago, IL, June 2016

(14) Heqimi, G., Gates, T., Savolainen P., "Implementation of a Decision Framework for Corridor Planning within the Roadside Right-of-Way for Non-Traditional Developments", ITE Midwest/Great Lakes District Meeting, Chicago, IL, June 2016.

(15) Gates, T. Safety "Evaluation of I-94 in Southwest Michigan", Michigan Traffic Safety Summit, East Lansing, MI, March 2016.

(16) Gates, T. "Michigan Urban Safety Performance Function (SPF) Development", Michigan Traffic Safety Summit, East Lansing, MI, March 2016.

(17) Gates, T. "Safety Belt Observation Surveys in Michigan", Michigan Traffic Safety Summit, East Lansing, MI, March 2016.

(18) Gates, T.J. "Effectiveness of Centerline Rumble Strips". Michigan Traffic Safety Summit; Michigan State Police; East Lansing, MI., March 2015

(19) Heqimi, G., McArthur, A, and Gates, T.J. "Implementation of a Decision Framework for Corridor Planning within the Roadside Right-of-Way for Non-Traditional Developments". 2nd Annual Summer Conference on Livable Communities; Kalamazoo, MI, July 2015.

(20) McArthur, A., Savolainen, P.T., and Gates, T.J., "Spatial Analysis of Child Pedestrian and Bicycle Crashes in Areas Adjacent to K-8 Schools". 2nd Annual Summer Conference on Livable Communities; Kalamazoo, MI, July 2015.

(21) Gates, T.J. "Using Behavioral Attributes to Assess Pedestrian and Bicyclist Safety". 1st Annual Summer Conference on Livable Communities; Kalamazoo, MI, July 2014.

(22) Gates, T.J., T.K. Datta, and P.T. Savolainen, "Evaluating the Appropriate Level of Service for Michigan Rest Areas and Welcome Centers Considering Safety and Economic Factors", Biennial Research Summit, Michigan Department of Transportation, East Lansing, MI, May 2012.

(23) Gates, T.J., T.K. Datta, and P.T. Savolainen, "Pedestrian Education and Enforcement Activities in the City of Detroit", Michigan Traffic Safety Summit, East Lansing, MI, March 2011.

(24) Gates T.J. and P.T. Savolainen, "An In-Class Pedestrian Safety Training Program for K-8 Students", Michigan Safe Routes to School Annual Meeting. Lansing, MI, February 2011.

(25) Gates, T.J., "Wayne State University's Pedestrian Safety Education Programs for the City of Detroit". SEMCOG University: Safe Routes to School, Detroit, MI, March 2010.

(26) Gates, T.J. and T.K. Datta, "Washtenaw County Intersection Safety Study". Washtenaw County Safety Summit, Ann Arbor, MI, February 2010.

(27) Gates, T.J. and P.T. Savolainen, "Bicycle and Pedestrian Traffic at the Tipping Point". Michigan Traffic Safety Summit, East Lansing, MI, March 2009.

(28) Gates, T.J., "Safe Street Crossing Tips – A Pedestrian Safety Presentation for Elementary and Middle School Students". Michigan Safe Routes to School Training Seminar, Detroit, MI, February 2009.

(29) Gates, T.J., "Updated Recommended Walking Speeds for Pedestrian Clearance Timing", Institute of Transportation Engineers District 4 Annual Meeting, Rochester, MN, June 2006.

(30) Gates, T.J., "Updated Recommended Walking Speeds for Pedestrian Clearance Timing", Mid-Continent Transportation Research Forum, Madison, WI, August 2006.

E. Papers Under Review for Publication

(1) Kay J., Gates, T. A Data-Driven Approach to Identify Candidate Bridge Decks for Winter Weather Warning System Deployments

(2) Bahrami, V., Detweiler, A., Keshari, S., Gupta, N., Hankin, J., Chakraborty, M., Gates, T., Savolainen, P. Driver Comprehension of Driveway Assistance Devices (DAD) for Work Zones: Evidence from a Nationwide Survey.

(3) Pahari, S., Keshari, S., Premo, S., Cavka, M., Overall, M., Mahmud, Md., Racine, J., Gates T., Savolainen, P. Evaluating Driver Response to a Speed Feedback Trailer at Median Crossovers within Freeway Work Zones

(4) Pahari, S., Keshari, S., Overall, M., Premo, S., Mahmud, Md., Racine, J., Gates T., Savolainen, P. Evaluating Driver Response to Speed Feedback Trailers and Digital Speed Limit Signs Positioned Near the Work Area within Freeway Lane Closures

(5) Keshari, S., Pahari, S., Gates, T., Savolainen, P. Evaluating Driver Response to a Slippery Curve Warning System at Rural Horizontal Curves

(6) Keshari, S., Pahari, S., Cavka, M., Bahrami, V., Racine, J., Gates T., Savolainen, P. Driver Response to Winter Weather Warning Messages on Changeable Message Signs at Freeway Bridges.

IV. SERVICE

A. Administrative Appointments

1. Department
   CEE Associate Chair for Undergraduate Studies – August 2020 - present.
   CEE Interim Associate Chair for Undergraduate Studies – August 2018 – June 2019.

B. College/Department Committee Assignments

1. University Committees Chaired
   None
2. University Committee Membership
   CEE Undergraduate Curriculum Committee, 2020 - present
   University Faculty Senate, 2016
   University Council, 2016
   University Graduate Studies Committee, 2016
3. College/Department Committees Chaired
   CEE Undergraduate Curriculum Committee, 2019 - 2020
   CEE Faculty Search Committee, 2017 - 2018
   CEE Advisory Committee, 2016 – 2018
   NCPP Director Search Committee, 2016 - 2017
4. College/Department Committees Membership
   Engineering Undergraduate Studies Committee, 2018 - 2019
   CEE Post Doc Search Committee, 2019 - 2020

CEE Undergraduate Curriculum Committee, 2018 - present
CEE Advisor Search Committee, 2016, 2017
College Engineering Graduate Studies Committee (Liaison) 2016

5. Other Institutional Service
   University Grievance Hearing Panel Member, 2023

C. Positions Held in Professional Associations

Transportation Research Board, Standing Committee on Road User Measurement and Evaluation (ACH50): Member, 2022 – present

Transportation Research Board, Standing Committee on Traffic Control Devices (AHB50/ACP55): Chair, 2017-2022; Vice-Chair, 2014-2017; Secretary, 2008 – 2014; Member, 2005 – 2022

Transportation Research Board, Operational Effects of Geometrics Committee (AHB65/AKD10): Member, 2013 – 2022

D. Professional Consultation

Provided Testimony to Michigan State Senate Transportation Committee on Raising Speed Limits in Michigan, October 2016.

Provided Testimony to Michigan State Senate Transportation Committee on Raising Speed Limits in Michigan, September 2016.

Provided Testimony to Michigan State House of Representatives Transportation Committee on Raising Speed Limits in Michigan, September 2015.

Panel member NCHRP 20-05 “Applications of Pedestrian Crossing Treatments for Streets and Highways”; 2014 – 2015

E. Journal/Editorial Activity

Handling Editor, Transportation Research Record, Transportation Research Board, 2019 – present

Transportation Research Board, Road User Measurement and Evaluation Committee (ACH50): Paper Review Co-Coordinator 2022 - present

Transportation Research Board, Traffic Control Devices Committee (AHB50/ACP55): Transportation Research Record, Paper Review Coordinator 2014 - present; Publication Selection Chair; 2014 - 2019

F. Other Professionally Related Service

1. Professional Reviewing Activities – Journals
   ASCE Journal of Transportation Engineering
   Transportation Research – Part F
   Transportation Research Record
   Accident Analysis and Prevention
   Journal of Transportation Safety and Security
   Traffic Injury Prevention

2. Professional Reviewing Activities – Funding Agencies