DOMINIQUE LORD

Zachry Department of Civil and Environmental Engineering, Texas A&M University 3136 TAMU, College Station, 77843-3136, tel. (979) 458-3949 Email: d-lord@tamu.edu

ACADEMIC AND RESEARCH EXPERIENCE

| PROFESSOR AND A.P. AND FLORENCE WILEY FACULTY FELLOW | 2019-Present |
|--|--------------|
| PROFESSOR | 2015-2019 |
| DVISION HEAD, TRANSPORTATION & MATERIALS | 2014-2016 |
| ASSOCIATE PROFESSOR AND ZACHRY DEVELOPMENT PROFESSOR I | 2011-2015 |
| ASSOCIATE PROFESSOR (with Tenure) | 2010-2011 |
| ASSISTANT PROFESSOR | 2004-2010 |
| Zachry Department of Civil and Environmental Engineering | |

Texas A&M University

Teach undergraduate (CVEN 456, CVEN 307) and graduate (CVEN 617, CVEN 626, CVEN 635, CVEN 681) courses in transportation engineering, traffic engineering, highway geometric design and highway safety. Supervise master's and Ph.D. students (see list below). Participate in university, college and departmental committees (see list below).

ASSOCIATE MEMBER

Interuniversity Research Centre on Enterprise Networks, Logistics and Transportation (CIRRELT) University of Montreal

Associate Members are professors or researchers working for the academia, government or industry; holds a doctorate; and, apart from exceptional cases, devotes less than 60% of his or her research time to projects in line with the research themes of the CIRRELT. This is an unpaid position.

ASSOCIATE RESEARCH SCIENTIST

Center for Transportation Safety Texas A&M Transportation Institute (formally known as the Texas Transportation Institute until 2012)

Leading studies on roundabout safety and the development of predictive models for multilane rural highways Participate on current research projects in transportation safety: California Call Box, Median Barrier Guidelines, Rollover Causation and Mitigation Study, Pedestrian Warrants at Unsignalized Intersections, and In-service Performance Evaluation of Roadside Safety Features.

Prepare research proposals for FHWA, TxDOT, BTS, NSF, CDC, Caltrans and NCHRP. Supervise research assistants.

VISITING ASSISTANT PROFESSOR Department of Civil Engineering, Texas A&M University, College Station

Courses taught: Highway Design (CVEN 456)

VISITING ASSISTANT PROFESSOR

Department of Nuclear Engineering, Texas A&M University, College Station

Taught Product Safety Engineering (SENG 313)

1

2001-Present

2003

2002

2008-Present

POST-DOCTORAL RESEARCHER

Ryerson University

Fundamental research on accident analysis methodology.

Validation of accident prediction models developed as part of FHWA-RD-98-133.

Developed accident prediction models at signalized/unsignalized intersections (US and Toronto data). Involved in accident modeling for an FHWA research project to validate/recalibrate intersection crash prediction models.

Associate researcher for a study comparing driver and pedestrian behaviour in Quebec and Ontario (in collaboration with the CRT at the University of Montreal).

RESEARCH ASSISTANT

University of Toronto/Ryerson University

Participated in a study on drivers' training program for the MPI in Manitoba, Canada.

Created models to predict traffic flow breakdowns on freeways under congested conditions.

Developed and applied an algorithm to estimate missing traffic counts at intersections (U.S. project).

Supervised a traffic safety study for left-turning accidents at signalized intersections in Toronto, Canada.

Developed accident prediction models to estimate the number of accidents at interchanges.

Developed accident prediction models to assess and optimize safety on computerized transportation networks.

Performed research on traffic conflicts and human factors issues between left-turning vehicles and pedestrians at signalized intersections.

Participated in the improvement of two equations used in the capacity analysis of signalized intersections.

RESEARCH ASSISTANT

University of Montreal - École Polytechnique (Center for Research on Transportation)

Prepared a literature review on the identification of hazardous highway sections. Conducted analyses to identify hazardous highway sections in the Montréal region. Performed sensitivity analyses for upgrading vertical and horizontal alignment designs for rural highways.

LECTURER

Department of Civil Engineering, Ryerson University

Taught 3rd year Transportation Engineering (CVL316) Received very good evaluation from students.

TEACHING ASSISTANT

University of Toronto

Marked assignments and mid-terms for courses in Linear Algebra, Transport Engineering I, Transport Engineering II, and Traffic Engineering. Delivered lectures in Traffic Engineering.

DISSEMINATION OF RESEARCH/EXPERTISE: TRAINING AND MEDIA

EXAMINER

Association of Professional Engineers of Ontario

National examiner for the Professional Engineering Exam in Transportation Engineering.

2000-2001

1995-2000

1992-1994

2001

1994-1995

2001-2002

1995-1999 1992-1993

SEMINARS & INTERVIEWS

1994-Present

WalletHub (April 15, 2024)

(https://wallethub.com/edu/ci/uninsured-motorist-coverage/9647#expert=Dominique_Lord)

Greater Long Island: This might be the most dangerous north-south highway on Long Island

(<u>https://greaterlongisland.com/this-might-be-the-most-dangerous-north-south-highway-on-long-island/</u>) (Jan 10, 2024)

Wall Street Journal (Nov 4, 2023)

https://www.nytimes.com/2023/11/04/technology/amazon-drone-delivery.html (not directly related to my work)

WalletHub (Aug. 28, 2023)

https://wallethub.com/edu/best-worst-states-for-teen-drivers/4598#expert=Dominique_Lord Texas A&M Foundation Spirit Magazine (Oct. 2022)

(https://www.txamfoundation.com/Spring-2023/How-Will-NextGen-Vehicles-Drive-Our-Future.aspx?fbclid=I wAR3123R24M0cHZ0FwyFcRCVr-T0lyIKbmYpU2yzzc19E1hZkjq20FKYIN0o)

ABC13 Houston (March 8)

(https://abc13.com/texas-am-transportation-institute-research-traffic-crashes/11653774/)

25 News KRHD (March 1, 2022) (no link provided; the piece was shown in the telecast) Houston Chronicles (Feb 28, 2022)

(<u>https://www.houstonchronicle.com/news/houston-texas/transportation/article/Texas-A-M-study-shows-faste</u>st-route-offered-by-16977614.php)

KBTX (Feb. 25, 2022)

(https://www.kbtx.com/2022/02/28/texas-am-study-finds-navigations-apps-may-take-you-fastest-route-not-n ecessarily-safest/)

Radio Health Journal

(https://radiohealthjournal.org/trust-self-driving-cars/?fbclid=IwAR3Mx3WdiWlghJgaIBA_s2Y55jvuKcPVZfjT Mgke17V3jDIRq9W7s_rkTU0) (Jan. 25, 2022)

Texas A&M News (Oct. 14, 2020)

(https://today.tamu.edu/2020/10/13/researchers-develop-framework-to-identify-health-impacts-of-self-drivin g-vehicles/)

Auto Insurance Report, Phone Interview (Feb. 28, 2020)

New England Public Radio, Radio Interview. (Feb. 21, 2020)

WalletHub, Internet Interview, Cheap Car Insurance in 2019

(https://wallethub.com/cheap-car-insurance#expert=dominique-lord)

NEWS 1130, Radio Interview, British Columbia (May 8, 2019)

(https://www.citynews1130.com/2019/05/11/speed-cameras-safer-for-officers-at-intersections/)

Toronto Star (June 27, 2018)

(https://www.thestar.com/opinion/contributors/thebigdebate/2018/07/03/should-speed-limits-be-lowered-to-save-lives-not-necessarily.html)

Newsday, Long Island, NY (June 6, 2018)

(https://www.newsday.com/long-island/politics/red-light-cameras-nassau-county-1.19080982)

Milwaukee Journal Sentinel, Milwaukee, WI (December 5, 2017)

(https://www.jsonline.com/story/opinion/columnists/david-haynes/2017/12/13/speeding-red-light-cameras-recklessdriving/933047001/)

Newsday, Long Island, NY (Aug. 29, 2017)

(http://www.newsday.com/long-island/suffolk/suffolk-official-defends-county-s-red-light-camera-program-1.1 4102384)

Journal newspaper chain of Oak Park, Illinois (Nov. 29, 2016)

(<u>http://www.oakpark.com/News/Articles/1-10-2017/A-street-paved-with-gold/?utm_campaign=WJ-News&utm_medium=Outbound-Email&utm_source=WJ-News-1-10-2017</u>)

Politifact-Pennsylvania (June 8, 2016)

(<u>http://www.politifact.com/pennsylvania/statements/2016/jun/14/tom-mccarey/radar-guns-and-cameras-dont</u>-stop-accidents-huh/)

Newsday, Long Island, NY (April 7, 2016)

(http://www.newsday.com/long-island/suffolk/some-suffolk-red-light-camera-sites-see-rise-in-injury-accident <u>s-1.11670932</u>)

Auto Insurance Center (March 17, 2016)

(http://www.autoinsurancecenter.com/report-predicts-spike-in-pedestrian-deaths.htm)

Auto Insurance Center (Feb 19, 2016) (<u>http://www.autoinsurancecenter.com/red-light-speed-cameras.htm</u>) News Talk AM770, Calgary (Feb 3, 2016)

Nerdwallet (August 2015)

(<u>http://www.nerdwallet.com/blog/auto-insurance/red-light-camera-tickets-car-insurance-rates/</u>) WalletHub (July 2015)

(<u>http://wallethub.com/edu/best-worst-states-for-summer-road-trips/4648/#dominique-lord</u>) AOLMedia (Jan. 6, 2015)

Glendale Cherry Creek Chronicle (http://glendalecherrycreek.com/, Denver, Dec. 29, 2014)

KCBS (San Francisco, Dec. 23, 2014) Chicago Tribune (December 14, 2014)

(<u>https://www.chicagotribune.com/2014/12/19/tribune-study-chicago-red-light-cameras-provide-few-safety-benefits/</u>)

St. Lambert Journal/Brossard Journal (Interview: ITS issues, April 28, 2010)

St. Lambert Journal (Interview: highway safety, March 31, 2010)

Guest speaker on Citytv's Talkback Live in Toronto, Ont.

Performed a seminar at C.O. Charles College (Police Academy) on traffic engineering and safety.

Conducted presentations on traffic safety issues for numerous research groups in the Province of Quebec.

CONSULTING AND INDUSTRY EXPERIENCE

ROAD SAFETY AND TRAFFIC ENGINEERING CONSULTANT Lord Highway Safety Analytics, LLC

1995-Present 2021-Present

INTERNATIONAL

Prepared workshops for Tungji University based on the chapters of the textbook Highway Safety Analytics and Modeling (on-going)

Prepared the initial bidding documents for the follow up on the traffic safety study in Burkina, Faso.

Prepared the bidding documents for a traffic safety study in Burundi, Central Africa.

Supervised (Mission Chief) a \$0.5M (CAN) traffic safety project in Burkina Faso, Western Africa between February and July 2000. This project was financed by the Canadian International Development Agency.

Conducted a traffic safety study of Highway A-1 in Vietnam in 1995 as part of a road rehabilitation project. This project was financed by the World Bank. The work was performed in Montreal, Canada.

U.S. and CANADIAN

Sub-consultant for Michigan State University: developed statistical models for rural highways (completed) and a before-after study for examining the safety effects of increasing the speed limits on freeways and arterials (on-going).

Conducted a before-after study using the EB method on behalf of the Chicago Tribune on the red-light camera program in Chicago, Illinois.

(http://ceprofs.civil.tamu.edu/dlord/Papers/Chicago_Tribune_Final_Report.pdf)

Sub-consultant for two projects related to the development of predictive models for urban segments and intersections (Wayne State University)

Conducted the safety analyses for evaluating red-light and speed cameras in the Province of Quebec.

Helped writing the user manual for the CrimeStat Statistical Software Program and write computer codes for different modules of the program (Ned Levine & Associates)

Developed predictive models for the revised chapter on multilane highways for the Highway Safety Manual Prepared a document on the effects of physical characteristics at signalized intersections on pedestrian safety and behavior (CRT Montreal) Performed a study on the safety of RTOR for the MTQ.

One of three national external reviewers for a safety audit review of the l'Acadie Roundabout Reconstruction project (\$60M Can).

Developed accident prediction models as part of a transportation safety study in Durham and Halton regions. Performed an analysis of vehicle accidents at signalized intersections as part of a traffic impact study in Montreal, Canada.

Participated in a traffic impact study in Ottawa, Canada where I applied accident prediction models to a transportation network.

Developed accident prediction models for a roundabout safety study project.

Supervised the data collection process for a traffic safety project on intersection safety.

Performed capacity analyses at signalized intersections in Laval, Canada.

Modeled traffic flows on a highway corridor as part of a traffic impact study on the South Shore of Montreal, Canada.

ASSOCIATION QUÉBÉCOISE DU TRANSPORT ET DES ROUTES 1991-1995

Active member of the Traffic Engineering and Road Safety Committees

| ASSISTANT TO THE TRAFFIC ENGINEER | Summer 1992 |
|-----------------------------------|-------------|
| City of Côte St. Luc, Quebec | Summer 1991 |

Prepared and performed several traffic engineering studies. Participated in the improvement of problematic intersections and highway corridors.

EDUCATION

| DOCTOR OF PHILOSOPHY (Transportation Engineering) Dissertation title: The Prediction of Accidents on Digital Networks: Characteristics and Issues Related to the Application of Accident Prediction Mod (Thesis Supervisors: Prof. Ezra Hauer/Prof. Bhagwant N. Persaud) Department of Civil Engineering University of Toronto | 2000 dels |
|--|---------------------|
| MASTER OF APPLIED SCIENCE (Transportation Engineering) Thesis title: Pedestrian Conflicts and Left-Turning Traffic at Signalized Intersecti (Thesis Supervisor: Prof. Ezra Hauer) Department of Civil Engineering University of Toronto | 1994 ions |
| BACHELOR OF ENGINEERING (Civil) /MINOR IN MANAGEMENT Project title: Feasibility Study of a Reserved H.O.V. Lane for the Approach of the Victoria Bridge during the Morning Peak Period (Project Supervisor: Prof. R.G. Rice) Department of Civil Engineering and Applied Mechanics McGill University | 1992 e |

AWARDS, PRIZES AND RECOGNITIONS

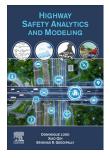
| Best paper award – TRB ANB25 Committee | 2020 |
|---|------|
| Leadership Impact Award (Civil Engineering Department) | 2020 |
| HSIS First Place Award Paper (Given to Xiaoyu (Sky) Guo, Yongxin Peng | 2020 |
| And Chaolun (Samuel) Ma for a paper I supervised; the paper was | |
| published in the ITE Journal, December 2020) | |
| 2019 ITE D.B. Fambro Award (awarded to Soheil Sohrabi – | |

| I'm co-author of the paper) 2018-2019 Williams Brothers Construction Engineering Fellow | 2019 |
|--|-----------|
| Contributions Award (Faculty of Engineering) | 2019 |
| A.P. and Florence Wiley Faculty Fellow | 2019 |
| Best Paper: 2015 Young Researcher Award (TRB Committee ANB20) | 2016 |
| Williams Brothers Construction Company Fellow | 2015 |
| | 2015 |
| (Dwight Look College of Engineering, TAMU) | |
| "Circle of Ambassadors" for Professional Accomplishments | 0045 |
| (College Charles Lemoyne High School) | 2015 |
| Service Impact Award (Zachry Department of Civil Engineering) | 2014 |
| Best Paper Nominee (two papers) (TRB Committee ANB20) | 2011 |
| Best Paper: 2010 Young Researcher Award (TRB Committee ABJ80) | 2011 |
| Civil Engineering Excellence in Research (Zachry Dept. of C.E.) | 2010 |
| Lambertois Award – Professional Life | 2010 |
| (Award given by the City of St. Lambert, Qc) | |
| CUTC-ARTBA New Faculty Award | 2009 |
| Truman R. Jones Excellence in Graduate Teaching (Zachry Dept. of C.E.) | 2009 |
| Best Paper: 2009 Young Researcher Award (TRB Committee ANB20) | 2009 |
| Best Paper Nominee (two papers) (TRB Committee ANB20) | 2009 |
| Best Paper Nominee (TRB Committee AHB65) | 2007 |
| Best Paper: 2006 Young Researcher Award (TRB Committee ABJ80) | 2006 |
| NSF CAREER Proposal (recommended for funding) | 2006 |
| TAMU Teaching Peer Review Group | 2006 |
| ITE Transportation Achievement Award given to TCRP/NCHRP | 2000 |
| (co-author of report) | 2006 |
| Nominated by OIQ for Young Engineer Achievement Award (CCPE) | 2004 |
| D. Grant Mickle Award (TRB) (second award) | 2004 |
| Committee ANB20 Best Paper Award (TRB) | 2004 |
| New Investigator Award for Non-intentional Injuries (CDC) | 2004 |
| | 2003 |
| Young Researcher Award (TRB Committee A3B05) | |
| D. Grant Mickle Award (TRB) | 2002 |
| Committee A3A08 Best Paper Award (TRB) | 2002 |
| CARSP Student Paper Competition | 2000 |
| Research Assistantship (University of Toronto/Ryerson University) | 1992-2000 |
| 2 nd Prize Student Presentation (Dist. 7, ITE) | 1996 |
| Open Fellowship (University of Toronto) | 1995-1999 |
| Scholarship for Graduate Studies in Transportation (CTRF) | 1993-1994 |
| 2 nd Prize Student Research Paper Competition (CTRF) | 1992 |
| Allen Cook Prize in Transportation (McGill University) | 1992 |
| David Adrian Selby Award (CSCE) | 1992 |
| | |

PUBLICATIONS

BOOKS, BOOK CHAPTERS AND MANUALS

Lord, D., Qin, X., and Geedipally, S.R. (2021) Highway Safety Analytics and Modeling. 1st Ed. Elsevier Publishing Itd., Amsterdam, NL.



Information about the textbook:

https://www.elsevier.com/books/highway-safety-analytics-and-modeling/lord/978-0-12-816818-9

The Study of Crime and Place: A methods Handbook (2023) Edited by Liz Groff and Cory Haberman, Temple University Press, Philadelphia, PA. https://tupress.temple.edu/books/understanding-crime-and-place

Levine, N., and D. Lord (2023) Chapter 8.2: Count Regression Modeling. Edited by Liz Groff and Cory Haberman, The Study of Crime and Place: A Methods Handbook, Temple University Press, Philadelphia, PA, pp. 220-234.

Levine, N., and D. Lord (2023) Supplemental Material for Count Regression Models, forthcoming appendix. (maybe online)

International Encyclopedia of Transport

Shirazi, M., and D. Lord (2021) Use/analysis of crash data and under reporting of crashes, International Encyclopedia of Transportation, Volume 2: Transport Safety and Security, pp. 726-730. (<u>https://doi.org/10.1016/B978-0-08-102671-7.10132-0</u>)

https://www.elsevier.com/books/international-encyclopedia-of-transportation/vickerman/978-0-08-102671-7

Safe Mobility

Lord, D., and S. Washington (2018) Safe Mobility: Challenges, Methodology and Solutions. Volume 11 of <u>Transport and Sustainability</u>, Emerald Publishing Ltd, Bingley, UK.

<u>Volume 11: Challenges, Methodology and Solutions</u> (link to Amazon.com for pre-order) (<u>https://goo.gl/HYHr5p</u>) (click here for the link of the book)



 Table of Contents:
 https://goo.gl/XHEBH4

The book discusses the technical issues and policies relating to road safety and safe mobility in general, with a special emphasis on the human factors, physical and operational characteristics, as well as analysis methodologies and interpretation of data. The ultimate objective is to provide a state of the practice book series on safe mobility prepared by leading highway safety experts internationally. The book was published on April 18th, 2018.

CrimeStat IV (January 15, 2014 - all chapters were peer-reviewed):

Levine, N., and D. Lord (2013) CrimeStat IV: Chapter 15 - OLS Regression Modeling (Part V: Spatial Modeling II). Ned Levine & Associates and the National Institute of Justice, Washington, D.C. (<u>http://nij.gov/topics/technology/maps/Documents/crimestat-files/CrimeStat%20IV%20Chapter%2015.pdf</u>)

Lord, D., B.-J. Park, and N. Levine (2013) CrimeStat IV: Chapter 16 - Poisson Regression Modeling (Part V: Spatial Modeling II). Ned Levine & Associates and the National Institute of Justice, Washington, D.C. (<u>http://nij.gov/topics/technology/maps/Documents/crimestat-files/CrimeStat%20IV%20Chapter%2016.pdf</u>)

Levine, N., D. Lord, B.-J. Park, S. Geedipally, H. Teng, and L. Sheng (2013) CrimeStat IV: Chapter 17 -Estimating Complex Models with Markov Chain Monte Carlo Simulation (Part V: Spatial Modeling II). Ned Levine & Associates and the National Institute of Justice, Washington, D.C. (http://nij.gov/topics/technology/maps/Documents/crimestat-files/CrimeStat%20IV%20Chapter%2017.pdf)

Levine, N., D. Lord, and B.-J. Park (2013) CrimeStat IV: Chapter 18 - Binomial Regression Modeling (Part V: Spatial Modeling II). Ned Levine & Associates and the National Institute of Justice, Washington, D.C. (http://nij.gov/topics/technology/maps/Documents/crimestat-files/CrimeStat%20IV%20Chapter%2018.pdf)

Levine, N., D. Lord, B.-J. Park, S. Geedipally, H. Teng, and L. Sheng (2013) CrimeStat IV: Chapter 19 - Spatial Regression Modeling (Part V: Spatial Modeling II). Ned Levine & Associates and the National Institute of Justice, Washington, D.C.

(http://nij.gov/topics/technology/maps/Documents/crimestat-files/CrimeStat%20IV%20Chapter%2019.pdf)

Levine, N., D. Lord, B.-J. Park, S. Geedipally, H. Teng, and L. Sheng (2013) CrimeStat IV: Chapter 20 - The CrimeStat Regression Module (Part V: Spatial Modeling II). Ned Levine & Associates and the National Institute of Justice, Washington, D.C.

(http://nij.gov/topics/technology/maps/Documents/crimestat-files/CrimeStat%20IV%20Chapter%2020.pdf)

Lord, D., and B.-J. Park (2013) CrimeStat IV: Appendix C – Negative Binomial Regression Models and Estimation Methods. Ned Levine & Associates and the National Institute of Justice, Washington, D.C. (http://nij.gov/topics/technology/maps/Documents/crimestat-files/CrimeStat%20IV%20Appendix%20C.pdf)

CrimeStat 3.3:

Levine, N., D. Lord, and B.-J. Park (2010) CrimeStat Version 3.3 Update Notes: Part 2: Regression Modeling. The National Institute of Justice, Washington, D.C. (<u>http://www.icpsr.umich.edu/CrimeStat/</u>)

Lord, D., and B.-J. Park (2010) Appendix D – Negative Binomial Regression Models and Estimation Methods. In CrimeStat Version 3.3 Update Notes: Part 2: Regression Modeling. The National Institute of Justice, Washington, D.C.

PEER-REVIEWED JOURNAL PUBLICATIONS

<u>Overview</u>

Scopus: h-index = 46 (42 without self-citations) (based on 163 papers – at least 3 papers are missing)

Scopus: Citations = 9,163 (8,228 without self-citations)

Web of Science: 5,781 (5,096 without self-citations) (based on 136 papers – Beta search) (I will not update this number often, as I am waiting for WofS to combine my name as a single researcher. As of Dec 2021)

Web of Science: h-index = 33

Google Scholar: h-index = 61; i10-index = 176

Google Scholar: Citations = 17,141 (<u>https://scholar.google.com/citations?user=A1GQZYgAAAAJ&hl=en</u>)

AD Scientific Index: <u>https://www.adscientificindex.com/scientist.php?id=1674003</u> (New)

Microsoft Academic: Citations = 11,702 (based on 219 publications – some papers may be duplicates and includes TTI reports) (<u>https://academic.microsoft.com/#/detail/2122696152</u>) (link was broken on Jan 12, 2022)

ScholarGPS: <u>https://scholargps.com/scholars/44506264966912/dominique-lord</u> (Ranked #4 in Accident; #5 in Accident Analysis)

According to this paper "Fifty Years of Accident Analysis & Prevention: A Bibliometric and Scientometric Overview" (Zou et al., AA&P, 2020, 105568), I am listed in the top 5 researchers who had the most impact in the history of this journal.

According to this paper "<u>Mapping the knowledge domain of road safety studies: A scientometric analysis</u>" (Zou and Vu, AA&P, 2019, 105243), I am listed as the researcher who has the greatest impact highway safety research.

Top 5 most cited author in *Accident Analysis & Prevention* since 2005 (28 papers) (was 1st for several years). Second most cited paper in AA&P since 2005 (Poisson, Poisson-gamma and zero-inflated regression models of motor vehicle crashes: balancing statistical fit and theory) (was 1st for 7 years).

According to this paper "Ioannis, J.P.A., Bass, J., Klavans, R., and Boyack, K.W., 2019. A standardized citation metrics author database annotated for scientific field. PLoS. https://doi.org/10.1371/journal.pbio.3000384" I was ranked at 66,111 among 6.8 million researchers who were evaluated for their citations and impact in science. The updated 2020 paper can be found here: "Updated science-wide author databases of standardized citation indicators" (https://journals.plos.org/plosbiology/article?id=10.1371/journal.pbio.3000918) (ranked 52,619). The August 2021 data-update for "Updated science-wide author databases of standardized citation indicators" can be found here: https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/3 (ranked: 46,290). The 2022 update can be found here: https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/4 (ranked: 46,746; 39 in transportation The Ranked and logistics). 2023 update can be found here: https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/6 (ranked: 44,325; Ranked 47 in transportation and logistic).

Made the preliminary list of the most influential (number of papers for high citations) researchers in my field on the Thomson Reuters Community:

(http://community.thomsonreuters.com/t5/InCites-Customer-Forum/Preliminary-publication-of-new-lists-of-H ighly-Cited-Researchers/td-p/36685). Unfortunately, I was excluded from the final list since TR changed the selection criteria to simplify the process. Since I publish in different fields (engineering, social science, economics/management, etc.), all my citations are split among the journals associated with these different fields, which reduces the impact of my research. In fact, all highly-cited transportation engineering professors who were on the preliminary list have also been excluded. (June 10, 2014)

Submitted for publication

lio, K., Y. Zhang, and D. Lord (2021) A Method to Estimate Traffic Volume Based on Mobility Footprint Cardinality. Paper submitted for publication. (Currently revising paper)

Published, in press or forthcoming

*=Graduate student I supervised and/or work related to his or her dissertation/thesis. Please note that I published several papers with students from other professors, often based on courses they took from me.

- 157. Kuo, P.-F., D. Lord, U.D. Sulistyah, and A. Jhamb (2024) The impact of the great recession on the spatial patterns of traffic fatalities in Texas: a spatial point pattern test. *Transportmetrica A: transport science* 20 (2), 2145861.
- 156. Sohrabi, S., D. Lord, B. Dadashova, and F. Mannering (2024) Assessing the collective safety of automated vehicle groups: A duration modeling approach of accumulated distances between crashes. *Accident Analysis & Prevention*, Vol. 198, 107454.
- 155. Dzinyela, R., N. Alnawmasi, E.K. Adanu, B. Dadashova, D. Lord, and F. Mannering (2024) A multi-year statistical analysis of driver injury severities in single-vehicle freeway crashes with and without airbags deployed. *Analytic Methods in Accident Research*, 41, 100317
- 154. Brawiswa, I.G., P.-F. Kuo, and D. Lord (2023) Local Spatial Analysis of the Crash Frequency of Food Delivery Motorcyclists vs. Non-delivery Motorcyclists in Relation to Points of Interest. *Journal of Advanced Transportation*, Vol. 2023, 6643649.
- 153. Kuo, P.-F., U. Dian, I.G. Brawiswa, and D. Lord (2023) Exploring the Spatial Relationship of E-Bike and Motorcycle Crashes: Implications for Risk Reduction. *Journal of Safety Research*, in press.
- 152. Dzinyela, R., E. Kofi Adanu, D. Lord, and S. Islam (2023) Analysis of factors that influence injury severity of single and multivehicle crashes involving at-fault older drivers: A random parameters logit with heterogeneity in means and variances approach. *Transportation Research Interdisciplinary Perspectives*, Vol. 22., 100974.
- 151. Tamakloe, R., E. Kofi Adanu, J. Atandzi, S. Das, D. Lord, and D. Park (2023) Stability of factors influencing walking-along-the-road pedestrian injury severity outcomes under different lighting conditions: A random parameters logit approach with heterogeneity in means and out-of-sample predictions. *Accident Analysis & Prevention*, Vol.193, 107333.
- 150. Taheri, A., N. Azarasa, M. Iranmanesh, S. Seyedabrishami, S. O'Hern, and D. Lord. (2023) The influences of strict and post-strict lockdowns due to the Covid-19 pandemic on crash severity on rural roads: A case study of Khorasan Razavi, Iran. *Transportation Research Part F: Traffic Psychology and Behaviour*. Vol. 97, pp. 231-245.
- 149. Tahir, H.B., Yasmin, S., Lord, D., Haque, M.M. (2023) Examining the performance of engineering treatment evaluation methodologies using the hypothetical treatment and actual treatment settings. *Accident Analysis & Prevention*, 188, 107108.
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- 37. Lord, D., and P.Y-J. Park (2008) Investigating the Effects of the Fixed and Varying Dispersion Parameters of Poisson-Gamma Models on Empirical Bayes Estimates. *Accident Analysis & Prevention*, Vol. 40, No. 4, pp. 1441-1457.
- 36. Zietsman, J., B. Gokhale*, D. Lord, and E. Bari (2008) Feasibility of Landfill Gas as a Liquefied Natural Gas Fuel Source for Refuse Trucks. *Journal of the Air & Waste Management Association*, Vol. 58, No. 5, pp. 613-619.
- 35. Lord, D., S. Guikema, and S.R. Geedipally* (2008) Application of the Conway-Maxwell-Poisson Generalized Linear Model for Analyzing Motor Vehicle Crashes. *Accident Analysis & Prevention*, Vol. 40, No. 3, pp. 1123-1134.
- 34. Lord, D. (2008) Methodology for Estimating the Variance and Confidence Intervals of the Estimate of the Product of Baseline Models and AMFs. *Accident Analysis & Prevention*, Vol. 40, No. 3, pp. 1013-1017.
- 33. Li, X., D. Lord, Y. Zhang, and Y. Xie (2008) Predicting Motor Vehicle Crashes using Support Vector Machine Models. *Accident Analysis & Prevention*, Vol. 40, No. 4, pp. 1611-1618. (Presented at the 87th Annual Meeting of the Transportation Research Board)
- 32. Fitzpatrick, K., D. Lord, and B.-J. Park* (2008) Accident Modification Factors for Medians on Freeways and Multilane Highways. *Transportation Research Record 2083*, pp. 62-71.
- 31. Geedipally, S.R. and D. Lord (2008) Effects of the Varying Dispersion Parameter of Poisson-gamma models on the Estimation of Confidence Intervals of Crash Prediction models. *Transportation Research Record 2061*, pp. 46-54.
- 30. Park*, B.-J., and D. Lord (2008) Adjustment for the Maximum Likelihood Estimate of the Negative Binomial Dispersion Parameter. *Transportation Research Record 2061*, pp. 9-19.
- 29. Lord, D., and L.F. Miranda-Moreno (2008) Effects of Low Sample Mean Values and Small Sample Size on the Estimation of the Fixed Dispersion Parameter of Poisson-gamma Models for Modeling Motor Vehicle Crashes: A Bayesian Perspective. *Safety Science*, Vol. 46, No. 5, pp. 751-770.
- Xie, Y., D. Lord, and Y. Zhang (2007) Predicting Motor Vehicle Collisions using Bayesian Neural Networks: An Empirical Analysis. *Accident Analysis & Prevention*, Vol. 39, No. 5, pp. 922-933. (Presented at the 86th Annual Meeting of the TRB)
- 27. Park, E.S., and D. Lord (2007) Multivariate Poisson-Lognormal Models for Jointly Modeling Crash Frequency by Severity. *Transportation Research Record 2019, pp. 1-6.*
- 26. Zhang, Y., Z. Ye, and D. Lord (2007) Estimating the Dispersion Parameter of the Negative Binomial Distribution for Analyzing Crash Data Using a Bootstrapped Maximum Likelihood Method. *Transportation Research Record 2019*, pp. 15-19.
- 25. Lord, D., and J.A. Bonneson (2007) Development of Accident Modification Factors for Rural Frontage Road Segments in Texas. *Transportation Research Record* 2023, pp. 20-27.

- 24. Lord, D., I. van Schalkwyk, S. Chrysler, and L. Staplin (2007) A Strategy to Reduce Older Driver Injuries at Intersections Using More Accommodating Roundabout Design Practices. *Accident Analysis & Prevention*, Vol. 39, No. 3, pp. 427-432.
- 23. Lord, D., S.P. Washington, and J.N. Ivan (2007) Further Notes on the Application of Zero Inflated Models in Highway Safety. *Accident Analysis & Prevention*, Vol. 39, No. 1, pp. 53-57.
- 22. Lord, D. (2006) Modeling Motor Vehicle Crashes using Poisson-gamma Models: Examining the Effects of Low Sample Mean Values and Small Sample Size on the Estimation of the Fixed Dispersion Parameter. *Accident Analysis & Prevention*, Vol. 38, No. 4, pp. 751-766. (Presented at the 85th Annual Meeting of the TRB) (top 10 highest referenced paper in AA&P since 2006)
- 21. Agrawal, R., and D. Lord (2006) Effects of Sample Size on the Goodness-of-fit Statistic and Confidence Intervals of Crash Prediction Models Subjected to low Sample Mean Values. *Transportation Research Record 1950*, pp.34-45. (Award Paper)
- 20. Stevens*, C.R., and D. Lord (2006) Evaluating the Safety Effects of Daylight Saving Time on Fatal and Non-Fatal Injury Crashes in Texas. *Transportation Research Record 1953*, pp. 147-155.
- 19. Lord, D., and J.A. Bonneson (2006) Role and Application of Accident Modification Factors (AMFs) within the Highway Design Process. *Transportation Research Record* 1961, pp. 65-73.
- 18. Brewer, M.A., K. Fitzpatrick, J.A. Whitaker, and D. Lord (2006) Exploration of Pedestrian Gap Acceptance Behavior at Selected Locations. *Transportation Research Record 1982*, pp. 132-140.
- 17. Miaou, S.-P., R.P. Bligh, and D. Lord (2005) Developing Median Barrier Installation Guidelines: A Benefit/Cost Analysis using Texas Data. *Transportation Research Record 1904*, pp. 3-19.
- 16. Lord, D., D. Middleton, and J. Whitacre* (2005) Does Separating Trucks from Other Traffic Improve Safety? *Transportation Research Record* 1922, pp. 156-166.
- 15. Lord, D., and J.A. Bonneson (2005) Calibration of Predictive Models for Estimating the Safety of Ramp Design Configurations. *Transportation Research Record 1908*, pp. 88-95.
- Lord, D., S.P. Washington, and J.N. Ivan (2005) Poisson, Poisson-Gamma and Zero Inflated Regression Models of Motor Vehicle Crashes: Balancing Statistical Fit and Theory. *Accident Analysis* & *Prevention*, Vol. 37, No. 1, pp. 35-46. (Also presented at the 83rd Annual Meeting of the TRB) (Highest referenced paper in AA&P since 2006)
- Lord, D., A. Manar, and A. Vizioli (2005) Modeling Crash-Flow-Density and Crash-Flow-V/C Ratio for Rural and Urban Freeway Segments. *Accident Analysis & Prevention*, Vol. 37, No. 1, pp. 185-199. (Also presented at the 83rd Annual Meeting of the TRB)
- 12. Lord, D., and B.N. Persaud (2004) Estimating the Safety Performance of Urban Transportation Networks. *Accident Analysis & Prevention*, Vol. 36, No. 2, pp. 609-620.
- 11. Thouez, J.P., D. Lord, J. Bergeron, R. Boudreau, Y. Buissière, H. Bélanger-Bonneau, A. Rannou, and M.E. Latremouille (2003) Physical and environmental characteristics of signalized intersections and pedestrian behavior. *Advances in Transport*, Vol. 14, No 1, pp. 143-148.
- 10. Lord, D., H.A. Abdou, A. N'Zué, G. Dionne, and C. Laberge-Nadeau (2003) Traffic Safety Diagnostic and Application of Countermeasures for Rural Roads in Burkina Faso. *Transportation Research Record 1846*, pp. 39-43.

- 9. Miaou, S.-P., and D. Lord (2003) Modeling Traffic-Flow Relationships at Signalized Intersections: Dispersion Parameter, Functional Form and Bayes vs Empirical Bayes. *Transportation Research Record 1840*, pp. 31-40.
- 8. Persaud, B.N., H. McGee, C. Lyon, and D. Lord (2003) Development of a Procedure for Estimating the Safety Effects for a Contemplated the Traffic Signal Installation. *Transportation Research Record 1840*, pp. 96-103.
- 7. Lord, D. (2002) Issues Related to the Application of Accident Prediction Models for the Computation of Accident Risk on Transportation Networks. *Transportation Research Record* 1784, pp. 17-26.
- 6. Persaud, B.N., D. Lord, and J. Palminaso (2002) Issues of Calibration and Transferability in Developing Accident Prediction Models for Urban Intersections. *Transportation Research Record 1784*, pp. 57-64.
- 5. Persaud B.N., R. Retting, P.Garder and D. Lord (2001) Observational before-after study of U.S. roundabout conversions using the empirical Bayes method. *Transportation Research Record* 1751, pp. 1-8.
- 4. Persaud, B.N., R.A. Retting, P.E. Gårder, and D. Lord (2001) Crash Reductions Following Installation of Roundabouts in the United States. *American Journal of Public Health*, Vol. 91, No. 4, pp. 628-631.
- Lord, D., and B.N. Persaud (2000) Accident Prediction Models With and Without Trend: Application of the Generalized Estimating Equations (GEE) Procedure. *Transportation Research Record* 1717, pp. 102-108.
- 2. Hurdle, V.F., and D. Lord (1998) Analysis of Two Left-Turn Equations from the Highway Capacity Manual. *Transportation Research Record 1646*, pp. 17-78.
- 1. Lord, D. (1996) Analysis of Pedestrian Conflicts with Left-Turning Traffic. *Transportation Research Record 1538*, pp. 61-67.

CONFERENCES WITH PEER-REVIEW PROCESS

Note: Several papers presented at these conferences below were published in a Transportation Research Record or another journal, as listed in the above section.

*=Graduate student I supervised and/or work related to his or her dissertation/thesis. Please note that I published several papers with students from other professors, often based on courses they took from me.

- 131. lio, K., and D. Lord (2024) Wildlife Crash Frequency in Texas Increases on Full Moon Nights. Paper presented at the 103rd Annual Meeting of the TRB, Washington, D.C.
- 130. Dzinyela*, R., B. Dadashova, G. Westfall, S. Das, C. Silvestri-Dobrovolny, and D. Lord (2024) Analysis of Motorcyclists Crash Severity Using Cluster Correspondence and Hierarchical Binary Logit Models. Paper presented at the 103rd Annual Meeting of the TRB, Washington, D.C.
- 129. lio, K., G. Noorsumar, D. Lord, and Y. Zhang (2024) On the Distribution of Probe Traffic Volume Estimated from Its Footprints. Paper presented at the 103rd Annual Meeting of the TRB, Washington, D.C.
- 128. Islam, M., M. Shirazi, and D. Lord (2023) Accounting for Regional Heterogeneity in Crash Data with Excess Zero Observations: A Grouped Random Parameters Negative Binomial-Lindley Approach. Paper presented at the 102nd Annual Meeting of the TRB, Washington, D.C.

- 127. Dzinyela*, R., B. Dadashova, E. Adanu, O. Gurbuz, and D. Lord (2023) A Comprehensive Analysis of the Bicyclist Crash Severity Contributing Factors at Intersection and Mid-Block Locations Using Random Parameter Models. Paper presented at the 102nd Annual Meeting of the TRB, Washington, D.C.
- 126. Avelar, R., K. Dixon, S. Ashraf, and D. Lord (2023) Assessing the Safety of Raising Speed Limits Using Interrupted Time Series. Paper presented at the 102nd Annual Meeting of the TRB, Washington, D.C.
- 125. Khodadadi*, A., I. Tsapakis, M. Shirazi, S. Das, and D. Lord (2023) Empirical Bayes Estimate of the Negative Binomial-Lindley Model Applicable to All Poisson-Compound Distributions Used in Traffic Safety. Paper presented at the 102nd Annual Meeting of the TRB, Washington, D.C.
- 124. Sohrabia*, S., D. Lord (2023) Navigating to Safety: Necessity, Requirements, and Barriers to Considering Safety in Route Finding. Paper presented at the 102nd Annual Meeting of the TRB, Washington, D.C.
- 123. Sohrabia*, S., D. Lord, B. Dadashova, F. Mannering (2023) Toward the Assessment of Automated Vehicle Safety with Duration Modeling. Paper presented at the 102nd Annual Meeting of the TRB, Washington, D.C.
- 122. Anis*, M., Wei, Z., Das, S., and D. Lord (2023) Machine Learning based Short-duration Crash Prediction Models for Rural Multilane Roadways. Paper presented at the 102nd Annual Meeting of the TRB, Washington, D.C.
- 121. Khodadadi*, A., M. Shirazi, S. Geedipally, and D. Lord, 2022. A Comparative Study to Evaluate the Application of Different Negative Binomial-Lindley Variations in Crash Data Modeling. Paper presented at the 101st Annual Meeting of the TRB.
- 120. lio, K., Y. Zhang, and D. Lord, 2022. A Method for Estimating Traffic Volume Based on Mobility Footprint Cardinality. Paper presented at the 101st Annual Meeting of the TRB.
- 119. Islam, M., M. Shirazi, and D. Lord, 2022. Finite Mixture Negative Binomial-Lindley to Model Heterogeneous Crash Data with Many Zero Observations. Paper presented at the 101st Annual Meeting of the TRB.
- 118. Sohrabia, S., B. Dadashova, D. Lord, H. Khreis, I.N. Sener, and J. Zmu, 2021. Equity Impacts of Automated Vehicles: Analysis of Road Fatalities. International Conference on Transport and Health (ICTH2021) (Virtual Conference)
- 117. Li, W., S.M. Mousavi^{*}, B. Dadashova, D. Lord and B. Wolshon, 2021. Toward a Crowdsourcing Solution to Identify High-Risk Highway Segments Through Mining Driving Jerks. International Symposium on Accident Analysis & Prevention 2021 (ISAAP 2021), Changsha, China, Nov. 19, 2021.
- 116. Khodadadi*, A., I. Tsapakis, S. Das, D. Lord, and Y. Li, 2021. Application of Different Negative Binomial Parameterizations to Develop Safety Performance Function for Non-Federal Aid System Roads. Paper presented at the 100th Annual Meeting of the TRB.
- 115. Geedipally, S.R., Lord, D., Pratt, M., Fitzpatrick, K, and Park, E.-S., 2020. Safety Performance of One-Way Arterials. Paper presented at the 99th Annual Meeting of the Transportation Research Board.

- 114. Intini, P., Berloco, N., Cavalluzzi, G., Colonna, P., Lord, D., Ranieri, V., 2020. The Variability of Urban Safety Performance Functions for Different Road Elements: An Italian Case Study. Paper presented at the 99th Annual Meeting of the Transportation Research Board.
- 113. lio, K., Lord, D., Zhang, Y., 2020. Average Annual Daily Traffic Estimation by Mobile Device Footprint Cardinality. Paper presented at the 99th Annual Meeting of the Transportation Research Board.
- 112. Iio, K., Gou, X., Lord, D., 2020. Examining Driver Distraction as a Function of Driving Speed: An Observational Study using Disruptive Technology and Naturalistic Data. Paper presented at the 99th Annual Meeting of the Transportation Research Board.
- 111. Mousavi, S.M., Lord, D., Mousavi, S.R., Shirinzad, M., 2020. Safety Performance of Autonomous Vehicles on an Urban Arterial in Proximity of a Driveway. Paper presented at the 99th Annual Meeting of the Transportation Research Board.
- 110. Shimu, T.H., Lord, D., Geedipally, S.R., Wu, L., Wunderlich, R., 2020. Investigating Factors that Contributed to the Large Reduction and Subsequent Increase in Roadway Fatalities in the United States between 2005 and 2016. Paper presented at the 99th Annual Meeting of the Transportation Research Board.
- 109. Shirazi, M., Lord, D., Geedipally, S.R., 2020. A Simulation Analysis to Study the Temporal and Spatial Aggregations of Safety Datasets with Excess Zero Observations. Paper presented at the 99th Annual Meeting of the Transportation Research Board.
- 108. Sohrabi, S., Khreis, H., Lord, D., 2020. Autonomous Vehicles and Public Health: A Conceptual Model and Policy Recommendation. Paper presented at the 99th Annual Meeting of the Transportation Research Board.
- 107. Geedipally, S.R., Dash, S., Pratt, M., Lord, D., 2020. Determining Skid Resistance Needs on Horizontal Curves for Different Levels of Precipitation. Paper to be presented the 99th Annual Meeting of the Transportation Research Board.
- 106. Sohrabi, S., H. Khreis, and D. Lord, 2020. Beauty or the Beast? The Impacts of Autonomous Vehicles on Public Health. Journal of Transport & Health. Vol: 14, Supplement: S, pp. S32-S33. Article Number: 100765
- 105. Mousavi, S.M., O.A. Osman, and D. Lord (2019) Impact of Urban Arterial Traffic LOS on the Vehicle Density of Different Lanes of the Arterial in Proximity of an Unsignalized Intersection for Autonomous Vehicle vs. Conventional Vehicle Environments. Paper presented at the ASCE International Conference on Transportation & Development, Alexandria, VA, June 9-12, 2019.
- 104. Shaon, M.R.R., X. Qin, A. Shirazi, D. Lord, and S. Geedipally (2018) Development of a Random Parameters Negative Binomial-Lindley Generalized Linear Model to analyze Over-Dispersed Data. Paper presented at the 97th Annual Meeting of the TRB, Washington, DC.
- 103. Shirazi*, M., and D. Lord (2018) Characteristics Based Heuristics to Select a Logical Distribution between the Poisson Gamma and the Poisson Lognormal for Crash Data Modeling. Paper presented at the 97th Annual Meeting of the TRB, Washington, DC.
- 102. Geedipally, S.R., D. Blower, C. Flannagan, R. Wunderlich, and D. Lord (2018) In-depth Investigation of Factors That Contributed to the Decline in Fatalities from 2008 to 2011 in the United States. Paper presented at the 97th Annual Meeting of the TRB, Washington, DC.

- 101. Flannagan, C., R. Wunderlich, S.R. Geedipally, D. Lord, and D. Blower (2018) Using crash prediction models that incorporate economic factors for state highway safety planning. Paper presented at the 97th Annual Meeting of the TRB, Washington, DC.
- 100. Xavier*, C., D. Lord, C. Silvestri Dobrovolny, and R. Bligh (2017) Evaluating the Relevancy of Current Crash Test Guidelines for Roadside Safety Barriers on High Speed Roads. TRB First International Roadside Safety Conference, San Francisco, June 12-15, 2017.
- 99. Mitra, S., S.R. Geedipally, and D. Lord (2017) Safety analysis of urban signalized intersections in Kolkata, India using a combined proactive and reactive approach. Presented at the 96th Annual Meeting of the TRB, Washington, DC.
- 98. Wu*, L., D. Lord, and S.R. Geedipally (2017) Developing Crash Modification Factors for Horizontal Curves on Rural Two Lane Undivided Highways using a Cross-Sectional Study. Presented at the 96th Annual Meeting of the TRB, Washington, DC. (accepted for publication).
- 97. Geedipally, S.R., M. Shirazi^{*}, and D. Lord (2017) Exploring the Need for Having Region-Specific Calibration Factors. Presented at the 96th Annual Meeting of the TRB (accepted for publication).
- 96. Shirazi*, M., S.R. Geedipally, and D. Lord (2017) A Monte Carlo Simulation Analysis for Validating the SDF Calibration Methodology and Determining the Sample Size Requirements. Presented at the 96th Annual Meeting of the TRB (Published in *Accident Analysis & Prevention*).
- 95. Ash, J.E., Y. Zou, D. Lord, and Y. Wang (2016) Comparison of Confidence and Prediction Intervals for Different Mixed-Poisson Regression Models. Paper presented at the 95th Annual Meeting of the Transportation Research Board.
- 94. Wu*, L., and D. Lord (2016) Investigating the Influence of Dependence between Variables on Crash Modification Factors Developed using Regression Models. Paper presented at the 95th Annual Meeting of the Transportation Research Board.
- 93. Heydari, S., L. Fu, D. Lord, and B.K. Mallick (2016) A Flexible Modeling Approach Using Dirichlet Process Mixtures: Application to Municipality-Level Railway Grade Crossing Crash Data. Paper presented at the 95th Annual Meeting of the Transportation Research Board.
- 92. Shirazi*, M., D. Lord, and S.G. Geedipally (2016) Sample-Size Guidelines for Recalibrating Crash Prediction Models: Recommendations for the Highway Safety Manual. Paper presented the 95th Annual Meeting of the Transportation Research Board.
- 91. Wu*, L., D. Lord, and Y. Zou (2015) Validation of CMFs Derived from Cross Sectional Studies Using Regression Models. Paper presented at the 94th Annual Meeting of the Transportation Research Board, Washington, D.C.
- 90. Vangala*, P., D. Lord, and S.R. Geedipally (2015) An Application of the Negative Binomial-Generalized Exponential Model for Analyzing Traffic Crash Data with Excess Zeros. Paper presented at the 94th Annual Meeting of the Transportation Research Board, Washington, D.C.
- 89. Iragavarapu, V., S.H. Khazraee, D. Lord, and K. Fitzpatrick (2015) Pedestrian Fatal Crashes on Freeways in Texas. Paper to be presented at the 94th Annual Meeting of the Transportation Research Board, Washington, D.C.
- 88. Iragavarapu, V., D. Lord, and K. Fitzpatrick (2015) Analysis of Injury Severity in Pedestrian Crashes using Classification Regression Trees. Paper presented at the 94th Annual Meeting of the Transportation Research Board, Washington, D.C.

- 87. Park B.-J., C. Lee, D. Lord, and D-G. Kim (2014) Finite Mixture Modeling Approach for Developing Crash Modification Factors in Highway Safety Analysis. To be presented at the 19th International Conference of Hong Kong Society for Transportation Studies. Hong Kong, Dec. 13-15, 2014.
- 86. Hadi*, K.S., A.J. Saez-Castillo, S.R. Geedipally, and D. Lord (2014) Application of the hyper-Poisson generalized linear model for analyzing motor vehicle crashes. Presented at the 93rd Annual Meeting of the TRB, Washington, D.C.
- 85. Kuo*, P.-F., and D. Lord (2014) Estimating the Safety Impacts in Before-After Studies using the Adjusted Method. Presented at the 93rd Annual Meeting of the TRB, Washington, D.C.
- 84. Hawkins, G.E., P.-F. Kuo*, and D. Lord (2014) Statistical Analysis of the Traffic Safety Impacts of On-Premise Digital Signs. Presented at the 93rd Annual Meeting of the TRB, Washington, D.C.
- 83. Peng*, Y., D. Lord, and Y. Zou (2014) Applying the Generalized Waring model for investigating sources of variance in motor vehicle crash analysis. Presented at the 93rd Annual Meeting of the TRB, Washington, D.C. (paper published in AA&P)
- 82. Wu*, L., Y. Zou, and D. Lord (2014) Comparison of Sichel and Negative Binomial Models in Hotspot Identification. Presented at the 93rd Annual Meeting of the TRB, Washington, D.C.
- 81. Heydari, S., Miranda-Moreno, L.F., Lord, D., Fu, L. (2014) A Methodology to Estimate and Update SPF Parameters under Limited Data Conditions: A Sensitivity Analysis. Presented at the 93rd Annual Meeting of the TRB, Washington, D.C.
- 80. Geedipally, S.R., J.A. Bonneson, M.P. Pratt, and D. Lord (2014) Injury Severity Analysis of Crashes on Ramps and at Crossroad Ramp Terminals. Presented at the 93rd Annual Meeting of the TRB, Washington, D.C.
- 79. Zou*, Y., S.R. Geedipally, and D. Lord (2013) Evaluating the Double Poisson Generalized Linear Model. Paper presented at the 92nd Annual Meeting of the TRB, Washington, D.C.
- 78. Geedipally, S.R., J.A. Bonneson, M.P. Pratt, and D. Lord (2013) Severity distribution function for freeway segments. Paper presented at the 92nd Annual Meeting of the TRB, Washington, D.C.
- 77. Ko*, M., D. Lord, and J. Zietsman (2013) Environmental Conscious Highway Design for Vertical Grades. Paper presented at the 92nd Annual Meeting of the TRB, Washington, D.C.
- 76. Zou, Y., D. Lord, Y. Zhang, and Y. Peng* (2013) Comparison of Sichel and Negative Binomial Models in Estimating Empirical Bayes Estimates. Paper presented at the 92nd Annual Meeting of the TRB, Washington, D.C.
- 75. Heydari, S., L.F. Miranda-Moreno, L. Fu, and D. Lord (2013) How to specify priors for full Bayes road safety studies? 4th International Conference on Road Safety and Simulation, Rome, Oct. 23rd-25th, 2013.
- 74. Kuo*, P.-F., and D. Lord (2012) Accounting for Site-Selection Bias in Before-After Studies for Continuous Distributions: Characteristics and Application Using Speed Data. Paper presented at the 91st Annual Meeting of the TRB, Washington, D.C.
- 73. Cheng*, L., S.R. Geedipally, and D. Lord (2012) Examining the Poisson-Weibull Generalized Linear Model for Analyzing Crash Data. Paper presented at the 91st Annual Meeting of the TRB, Washington, D.C.

- 72. Zou, Y., D. Lord, Y. Zhang, and Y. Peng* (2012) Application of the Bayesian Model Averaging in Predicting Motor Vehicle Crashes. Paper presented at the 91st Annual Meeting of the TRB, Washington, D.C.
- 71. Ye*, F., T.P. Garcia, M. Pourahmadi, and D. Lord (2012) Extension of a Negative Binomial GARCH Model: Analyzing the Effects of Gasoline Price on Fatal Crashes in Texas. Paper presented at the 91st Annual Meeting of the TRB, Washington, D.C.
- 70. Peng*, Y., S.R. Geedipally, and D. Lord (2012) Investigating the Effect of Roadside features on Single-Vehicle Roadway Departure Crashes on Rural Two-Lane Roads. Paper presented at the 91st Annual Meeting of the TRB, Washington, D.C.
- 69. Ko*, M., D. Lord, and J. Zietsman (2012) Environmental Conscious Highway Design for Vertical Crest Curves. Paper presented at the 91st Annual Meeting of the TRB, Washington, D.C.
- 68. Howson*, J.E., D. Lord, and D. Lance Bullard (2012) The Effect of Driver Height on the Death Rate in Single-Vehicle Rollover Accidents. Paper presented at the 91st Annual Meeting of the TRB, Washington, D.C.
- 67. Zou, Y., D. Lord, and S.R. Geedipally (2012) Over- and Under-Dispersed Crash Data: Comparing the Conway-Maxwell-Poisson and Double-Poisson Distributions. Paper presented at the 91st Annual Meeting of the Transportation Research Board, Washington, D.C.
- 66. Lord, D., and P-F. Kuo* (2011) Examining the Effects of Site Selection Criteria for Evaluating the Effectiveness of Traffic Safety Improvement Countermeasures. Paper presented at the 90th Annual Meeting of the TRB, Washington, D.C.
- 65. Ye*, F., and D. Lord (2011) Comparing Three Commonly Used Crash Severity Models on Sample Size Requirements: Multinomial Logit, Ordered Probit and Mixed Logit Models. Paper presented at the 90th Annual Meeting of the TRB, Washington, D.C.
- 64. Ye*, F., and D. Lord (2011) Investigating the Effects of Underreporting of Crash Data on Three Commonly Used Traffic Crash Severity Models: Multinomial Logit, Ordered Probit and Mixed Logit Models. Paper presented at the 90th Annual Meeting of the TRB, Washington, D.C.
- 63. Peng^{*}, Y., and D. Lord (2011) Applying the latent class growth model into a longitudinal analysis of traffic crashes. Paper presented at the 90th Annual Meeting of the TRB, Washington, D.C.
- 62. Geedipally, S.R., and D. Lord (2011) Examining the Crash Variances Estimated by the Poisson-Gamma and Conway-Maxwell-Poisson Models. Paper presented at the 90th Annual Meeting of the TRB, Washington, D.C.
- 61. Geedipally, S.R., D. Lord, and G.R.S. Reddy* (2011) Evaluating TxDOT'S Safety Improvement Index: a Prioritization Tool. Paper presented at the 90th Annual Meeting of the TRB, Washington, D.C.
- 60. Iragavarapu*, I., and D. Lord (2011) Examining potential factors affecting the safety performance and design of exclusive truck facilities. Paper presented at the 1st Conference of Transportation Research Group (TRG) of India, Bangalore, India, December 7-10, 2011.
- 59. Ye, Z., Y. Zhang, and D. Lord (2011) Investigating Goodness-of-fit Statistics for Generalized Linear Crash Models with Low Sample Mean Values. Presented at the 3rd International Conference on Road Safety and Simulation, September 14-16, 2011, Indianapolis, USA. (Also Presented at the 86th

Annual Meeting of the Transportation Research Board, Washington, D.C.) (now paper in AA&P, see above)

- 58. Kuo*, P.-F., D. Lord, and T.D. Walden (2011) Using Geographical Information Systems to Organize Police Patrol Routes Effectively by Grouping Hot Spots of Crash and Crime Data. Presented at the 3rd International Conference on Road Safety and Simulation, September 14-16, 2011, Indianapolis, USA.
- 57. Park, P.Y., and D. Lord (2010) Investigating Regression-to-the-Mean in Before-and-After Speed Data Analysis. . Paper presented at the 89th Annual Meeting of the TRB, Washington, D.C.
- 56. Geedipally, S.R., S. Patil, and D. Lord (2010) Examining Methods for Estimating Crash Counts According to their Collision Type. Paper presented at the 89th Annual Meeting of the TRB, Washington, D.C. (TRB Award paper)
- 55. Park*, B.-J., K. Fitzpatrick, and D. Lord (2010) Evaluating the Effects of Freeway Design Elements on Safety. Paper presented at the 89th Annual Meeting of the TRB, Washington, D.C.
- 54. Geedipally, S.R., and D. Lord (2010) Hot Spot Identification by Modeling Single-Vehicle and Multi-Vehicle Crash Separately. Paper presented at the 89th Annual Meeting of the TRB, Washington, D.C.
- 53. Lord, D., P.-F. Kuo*, and S.R. Geedipally (2010) Comparing the Application of the Product of Baseline Models and Accident Modification Factors and Models with Covariates: Predicted Mean Values and Variance. Paper presented at the 89th Annual Meeting of the TRB, Washington, D.C.
- 52. Park*, B.-J., D. Lord, and J. Hart (2010) Bias Properties of Bayesian Statistics in Finite Mixture of Negative Regression Models for Crash Data Analysis. Presented at the 89th Annual Meeting of the TRB, Washington, D.C.
- 51. Chanam, L., K. Meghan Wieters, C. Giusti, and D. Lord (2010) The Environment and Obesity among Latino Adults: A case study exploring the roles of environments in promoting physical activity and reducing obesity among colonia residents. Paper presented at the "Obesity Research Workshop" by the Inter-University Program for Latino Research, held at the University of Notre Dame, July 26-28, 2010. (by invitation) (received an award from the "Latino Overweight and Obesity Education Awareness and Prevention Initiative")
- 50. Ko*, M., L.L. Higgins, S.T. Chrysler, and D. Lord (2010) Effect of Driving Environment on Drivers' Eye Movements. Presented at the 89th Annual Meeting of the Transportation Research Board, Washington, D.C. (This paper was written as a term paper in CVEN 626.)
- 49. Fitzpatrick, K., D. Lord, and B.-J. Park* (2009) Horizontal Curve Accident Modification Factors with Consideration of Driveway Density on Rural, Four-Lane Highways in Texas. Presented at the 88th Annual Meeting to the TRB, Washington, D.C.
- 48. Park*, B.-J., and D. Lord (2009) Application of Finite Mixture Models for Vehicle Crash Data Analysis. Presented at the 88th Annual Meeting to the TRB, Washington, D.C.
- 47. Jonsson, T., C. Lyon, J.N. Ivan, S. Washington, I. van Schalkwyk, and D. Lord (2009) Investigating Differences in the Performance of Safety Performance Functions Estimated for Total Crash Count and Crash Count by Crash Type. Presented at the 88th Annual Meeting to the TRB, Washington, D.C.

- 46. Geedipally*, S.R., D. Lord, and B.-J. Park (2009) Analyzing Different Parameterizations of the Varying Dispersion Parameter as a Function of Segment Length. Presented at the 88th Annual Meeting to the TRB, Washington, D.C. (Best Paper for Young Researcher, TRB Committee AHB65)
- 45. Miranda-Moreno, L., L. Fu, S. Ukkusuri, and D. Lord (2009) How to Incorporate Accident Severity and Vehicle Occupancy into the Hotspot Identification Process? Presented at the 88th Annual Meeting to the TRB, Washington, D.C. (nominated for Best Paper for Young Researcher, TRB Committee AHB65)
- 44. Washington, S.P., D. Lord, and B. Persaud (2009) The Use of Expert Panels in Highway Safety: A Critique. Presented at the 88th Annual Meeting to the TRB, Washington, D.C.
- 43. Lord, D., and M. Mahlawat (2009) Examining the Application of Aggregated and Disaggregated Poisson-gamma Models Subjected to Low Sample Mean Bias. Presented at the 88th Annual Meeting to the TRB, Washington, D.C.
- 42. Miranda-Moreno, L., D. Lord, and L. Fu (2008) Bayesian road safety analysis: incorporation of past experiences and effect of hyper-prior choice. Presented the 87th Annual Meeting of the TRB, Washington, D.C.
- 41. Li, X., D. Lord, Y. Zhang, and Y. Xie (2008) Predicting Motor Vehicle Crashes using Support Vector Machine Models. Presented at the 87th Annual Meeting of the TRB, Washington, D.C.
- 40. Fitzpatrick, K., D. Lord, and B.-J. Park* (2008) Accident Modification Factors for Medians on Freeways and Multilane Highways. Presented at the 87th Annual Meeting of the TRB, Washington, D.C.
- 39. Geedipally, S.R. and D. Lord (2008) Effects of the Varying Dispersion Parameter of Poisson-gamma models on the Estimation of Confidence Intervals of Crash Prediction models. Presented at the 87th Annual Meeting of the TRB, Washington, D.C.
- 38. Park*, B.-J., and D. Lord (2008) Adjustment for the Maximum Likelihood Estimate of the Negative Binomial Dispersion Parameter. Presented at the 87th Annual Meeting of the TRB, Washington, D.C.
- 37. Ye*, Z., and D. Lord (2007) Estimating the Variance in Before-After Studies. Presented at the 86th Annual Meeting of the TRB, Washington, D.C.
- 36. Xie, Y., D. Lord, and Y. Zhang (2007) Predicting Motor Vehicle Collisions using Bayesian Neural Networks: An Empirical Analysis. Presented at the 86th Annual Meeting of the TRB, Washington, D.C.
- 35. Park, E.S., and D. Lord (2007) Multivariate Poisson-Lognormal Models for Jointly Modeling Crash Frequency by Severity. Presented at the 86th Annual Meeting of the TRB, Washington, D.C.
- 34. Zhang, Y., Z. Ye, and D. Lord (2007) Estimating the Dispersion Parameter of the Negative Binomial Distribution for Analyzing Crash Data Using a Bootstrapped Maximum Likelihood Method. Presented at the 86th Annual Meeting of the TRB, Washington, D.C.
- 33. Lord, D., and J.A. Bonneson (2007) Development of Accident Modification Factors for Rural Frontage Road Segments in Texas. Presented at the 86th Annual Meeting of the TRB, Washington, D.C.
- 32. Tong*, J., and D. Lord (2007) Investigating the Application of Beta-Binomial Models in Highway Safety. Paper presented at the Canadian Multidisciplinary Road Safety Conference XVII, Montreal, June 3-8, 2007.

- 31. Gokhale*, B., J. Zietsman, and D. Lord (2007) Landfill Gas as a Liquefied Natural Gas Fuel Source for Refuse Trucks. Paper presented at the AWMA 100th Annual Conference and Exhibition, Pittsburgh, PA.
- 30. van Schalkwyk, I., D. Lord, S. Chrysler, and L. Staplin (2007) Older Drivers and Roundabouts -Assessing Traffic Control Feature Characteristics Through the Use of Focus Groups and Structured Interviews. Presented at the 86th Annual Meeting of the TRB, Washington, D.C.
- 29. Lord, D. (2006) Modeling Motor Vehicle Crashes using Poisson-gamma Models: Examining the Effects of Low Sample Mean Values and Small Sample Size on the Estimation of the Fixed Dispersion Parameter. Presented at the 85th Annual Meeting of the TRB, Washington, D.C.
- 28. Agrawal, R., and D. Lord (2006) Effects of Sample Size on the Goodness-of-fit Statistic and Confidence Intervals of Crash Prediction Models Subjected to low Sample Mean Values. Presented at the 85th Annual Meeting of the TRB, Washington, D.C.
- 27. Stevens*, C.R., and D. Lord (2006) Evaluating the Safety Effects of Daylight Saving Time on Fatal and Non-Fatal Injury Crashes in Texas. Presented at the 85th Annual Meeting of the TRB, Washington, D.C.
- 26. Lord, D., and J.A. Bonneson (2006) Role and Application of Accident Modification Factors (AMFs) within the Highway Design Process. Presented at the 85th Annual Meeting of the TRB, Washington, D.C.
- 25. Brewer, M.A., K. Fitzpatrick, J.A. Whitaker*, and D. Lord (2006) Exploration of Pedestrian Gap Acceptance Behavior at Selected Locations. Presented at the 85th Annual Meeting of the TRB, Washington, D.C.
- 24. Whitacre*, J.A., and D. Lord (2006) A Look at the Zero Tolerance Law in Texas. Paper presented at the Canadian Multidisciplinary Road Safety Conference XVI, Winnipeg, June 11-16, 2006.
- 23. Miaou, S.-P., R.P. Bligh, and D. Lord (2005) Developing Median Barrier Installation Guidelines: A Benefit/Cost Analysis using Texas Data. Presented at the 84th Annual Meeting of the TRB, Washington, D.C.
- 22. Lord, D., D. Middleton, and J. Whitacre* (2005) Does Separating Trucks from Other Traffic Improve Safety? Presented at the 84th Annual Meeting of the TRB, Washington, D.C.
- 21. Lord, D., and J.A. Bonneson (2005) Calibration of Predictive Models for Estimating the Safety of Ramp Design Configurations. Presented at the 84th Annual Meeting of the TRB, Washington, D.C.
- 20. Lord, D., S.P. Washington, and J.N. Ivan (2004) Statistical Challenges with Modeling Motor Vehicle crashes: Understanding the Implications of Alternative Approaches. Presented at the 83rd Annual Meeting of the TRB, Washington, D.C.
- 19. Lord, D., A. Manar, and A. Vizioli (2004) Modeling Crash-Flow-Density and Crash-Flow-V/C Ratio for Rural and Urban Freeway Segments. Presented at the 83rd Annual Meeting of the TRB, Washington, D.C.
- 18. Lord, D., H.A. Abdou, A. N'Zué, G. Dionne, and C. Laberge-Nadeau (2003) Traffic Safety Diagnostic and Application of Countermeasures for Rural Roads in Burkina Faso. Presented at the 82nd Annual Meeting of the TRB, Washington, D.C.

- 17. Miaou, S.-P., and D. Lord (2003) Modeling Traffic-Flow Relationships at Signalized Intersections: Dispersion Parameter, Functional Form and Bayes vs Empirical Bayes. Presented at the 82nd Annual Meeting of the TRB, Washington, D.C.
- 16. Persaud, B.N., H. McGee, C. Lyon, and D. Lord (2003) Development of a Procedure for Estimating the Safety Effects for a Contemplated the Traffic Signal Installation. Presented at the 82nd Annual Meeting of the TRB, Washington, D.C.
- 15. Lord, D. (2003) Synthesis on the Safety of Right Turn on Red in the United States and Canada. Paper presented at 82th Annual Meeting of the TRB. National Research Council, Washington, D.C.
- 14. Lord, D. (2002) Issues Related to the Application of Accident Prediction Models for the Computation of Accident Risk on Transportation Networks. Presented at the 81st Annual Meeting of the TRB, Washington, D.C.
- 13. Persaud, B.N., D. Lord, and J. Palminaso (2002) Issues of Calibration and Transferability in Developing Accident Prediction Models for Urban Intersections. Presented at the 81st Annual Meeting of the TRB, Washington, D.C.
- Bergeron, J., J.-P. Thouez, H. Bélanger-Bonneau, R. Bourbeau, D. Lord, and A. Rannou (2002) Étude des conflits entre piétons et automobilistes. Presented at the 9th Annual Meeting of International Traffic Injury Prevention, IX PRI World Congress, Madrid, Spain. (In French)
- 11. Thouez J.-P., D. Lord, J. Bergeron, R. Bourbeau, Y. Bussiere, H. Bélanger-Bonneau, A. Rannou, and M.-E. Latremouille (2002) Physical and environmental characteristics of signalized intersections and pedestrian behavior. In Sucharov L.J., and C.A. Brebbia (ed.) Urban Transport IX Urban transport and the environment in the 21st century. Southampton:WIT press, pp.143-148.
- 10. Persaud B.N., R. Retting, P.Garder and D. Lord (2001) Observational before-after study of U.S. roundabout conversions using the empirical Bayes method. Presented at the 80th Annual Meeting of the TRB, Washington, D.C.
- Lord, D., M.H. Abdou, C. Laberge-Nadeau, G. Dionne, and A. N'Zué (2001) Élaboration d'un plan d'actions en matière de sécurité routière au Burkina Faso, *published in the Proceedings of the Canadian Multidisciplinary Road Safety Conference XII*, University of Western Ontario, June 10-13. (in French) (also published in Routes et Transports, Vol. 30, No. 3, pp. 9-19)
- 8. Lord, D., and B.N. Persaud (2000) Accident Prediction Models With and Without Trend: Application of the Generalized Estimating Equations (GEE) Procedure. Presented at the 79th Annual Meeting of the TRB, Washington, D.C.
- 7. Lord, D. (2000) Procedure to Estimate Missing Year-to-Year Traffic Counts at Intersections. *Presented at the 2000 CSCE Annual Meeting*, June 7-10, London, Canada.
- 6. Lord, D., A. Georgi, B. Abduhlai, K.C. Choo, and P. Koutsoulias (1999) Safety Issues in Dynamic Route Guidance, *presented at the 6th World Congress on ITS*, Paper 1355, November 8 to 12, Toronto, Canada.
- 5. Lord D., A. Smiley, and A. Haroun (1998) Pedestrian Accidents with Left-Turning Traffic at Signalized Intersections: Characteristics, Human Factors and Unconsidered Issues, *presented at the* 77th *Annual TRB Meeting*, TRB, National Research Council, Washington, D.C.

- 4. Lord, D. (1997) Pedestrian Accidents with Left-Turning Traffic: Characteristics, Human Factors and Countermeasures, *published in the Proceedings of the Canadian Multidisciplinary Road Safety Conference X*, June 8-11, Ryerson Polytechnic University, pp. 520-531.
- 3. Lord, D. (1996) Analysis of Pedestrian Conflicts with Left-Turning Traffic. Presented at the 79th Annual Meeting of the TRB, Washington, D.C.
- Lord, D. (1995) Pedestrian Conflicts and Left-Turning Traffic at Signalized Intersections, *published in the Proceedings of the Canadian Multidisciplinary Road Safety Conference IX*, May 28-30, Université de Montréal École Polytechnique, pp. 269-282.
- 1. Wong, B., and D. Lord (1994) Feasibility Study of a Reserved H.O.V. Lane for the Approach of the Victoria Bridge During the Morning Peak Period, *published in the Proceedings of the 29th Annual Meeting of the Canadian Transportation Research Forum*, May 15-18, Canadian Transportation Research Forum, pp. 872-892. (award paper)

GUEST INVITED PUBLICATIONS AND CONFERENCES

- 8. Sohrabi, S., Sharifi, F., Burris, M., Lord, D. (2019) Ethical Dilemmas in Autonomous Vehicles: A Review of Literature and Direction for Future Research. 2019 Road Safety & Simulation Conference, Iowa City, Iowa, 14-17 October 2019.
- 7. Pratt, D., and D. Lord (2017) Safety Analysis Tool for Six-Lane and One-Way Urban Streets. Transportation and Engineering Safety Conference. State College, PA.
- 6. Lord, D., and S.R. Geedipally (2014) Models for Analyzing Count Data with a Lot of Zeros. Presented at the Annual Joint Statistical Meeting, Aug. 2nd-7th, Boston, MA.
- 5. Lord, D. (2009) Safety Performance of Rural Multilane Highways. Presented at the 2009 Annual Meeting and Exhibit of the Institute of Transportation Engineers. August 9-12, 2009, San Antonio, TX.
- 4. Lord, D., and S.R. Geedipally^{*} (2009) Methodology for Estimating Crash Risk between Heavy Vehicles and Bridge Piers. Presented at the 2009 Annual Meeting and Exhibit of the Institute of Transportation Engineers. August 9-12, 2009, San Antonio, TX.
- 3. Lord, D., and S.-P. Miaou (2004) Modélisation des accidents aux intersections : Évaluation des formes fonctionnelles pour établir la relation statistique entre les accidents et les débits de circulation. Routes et Transports, Vol. 33, No. 2, pp 2-12. (In French)
- Lord, D. (2002) Synthèse et discussions des expériences du virage à droite au feu rouge dans les provinces canadiennes et les états américains. *Routes et Transports,* Vol. 31, No. 2, pp. 10-20. (in French)
- 1. Lord, D., E. Hauer, and J. Bamfo (1999) Deux nouvelles méthodes pour examiner la relation entre les accidents et les variables explicatives, *Routes et Transports*, Vol. 28, No. 3, Association québécoise du transport et des routes, pp. 11-20 (also *poster presented at the Special Conference of the AQTR/CITE*, May 3-5, Association québécoise du transport et des routes.) (jn French)

CONFERENCE WITH REFEREED ABSTRACT

 Mars, R., D. Lord, L. Green, M. Martin, and B. Chigoy (2018) Speeding Behavior Modelling in the Presence of Passengers for Vulnerable User Groups. 2018 ITE Annual Meeting – Western Districts, Keystone, Colorado, June 24th – June 27th, 2018.

- 12. Shirazi, M., & Lord, D. (2017) An Approach Towards Automation Of Model Selection. Poster presented at the 2017 INFORMS Annual Meeting, Oct. 22nd Oct. 25th, 2017, Houston, TX
- 11. Lee, C., and C. Giusti, D. Lord, and M. Wieters (2010) Environment and Walking Among Underserved Rural Populations: A Case Study Exploring the Roles of Social and Physical Environments in Colonia. Paper presented at the 2010 Annual Conference of the Active Living Research, February 9-11, 2010, San Diego, CA.
- 10. Middleton, D.A., and D. Lord (2005) Safety and Operational Aspects of Exclusive Truck Facilities. Paper presented at the 2005 International Truck and Bus Safety and Security Symposium, Alexandria, VA.
- 9. Lord, D., I. van Schalkwyk, L. Staplin, and S. Chrysler (2005) Reducing Older Driver Injuries at Intersections Using More Accommodating Roundabout Design Practices. Presented at the National Roundabout Conference, Vail, CO.
- Lord, D., A. Manar, and A. Vizioli (2003) Modélisation des accidents en fonction des caractéristiques microscopiques du débit de circulation. Presented at the 38th Annual Meeting of the AQTR, Sherbrooke, Quebec. (In French) (also published as invited article in *Routes et Transports,* Vol. 32, No. 3, pp. 5-16.)
- 7. Lord, D., B.N. Persaud, R.A. Retting, and P.E. Gårder (2001) Évaluation de l'impact sur la sécurité des carrefours giratoires en utilisant la méthode empirique bayésienne, 36th Annual Conference, Association québécoise du transport et des routes, April 1-3. (in French)
- Lord, D. (1999) Procédure pour estimer les débits de circulation des années manquantes en vue d'une meilleure évaluation du niveau de sécurité aux intersections, *poster presented at the Special Conference of the AQTR/CITE*, May 3-5, Association québécoise du transport et des routes. (jn French)
- 5. Lord, D., and B.N. Persaud (1999) L'utilisation des analyses longitudinales pour estimer le niveau de sécurité : une amélioration sur la précision des modèles de régession, *poster presented at the Special Conference of the AQTR/CITE*, May 3-5, Association québécoise du transport et des routes. (jn French)
- 4. Lord, D., and V.F. Hurdle (1998) Analyse de deux équations du "Highway Capacity Manual" : le cas des carrefours à feux avec virage à gauche permis, *published in the Proceedings of the 33rd Annual Meeting of the AQTR (Tome 2)*, April 20-21, Association québécoise du transport et des routes, pp. 298-314. (in French)
- 3. Lord, D., and A. Smiley (1997) Accidents impliquant les piétons et les véhicules tournant à gauche aux carrefours à feux : leurs caractéristiques et les facteurs humains, *published in the Proceedings of the 32nd Annual Meeting of the AQTR (Tome 1)*, April 6-10, Association québécoise du transport et des routes, pp. 201-202. (in French)
- 2. Lord, D., K.G. Baass, and B. Brown (1995) Une analyse de sensibilité de certains facteurs utilisés pour le dépistage de sites dangereux, *published in the Proceedings of the 30th Annual Meeting of the AQTR (Tome 1)*, April 5-7, Association québécoise du transport et des routes, pp. 105. (in French)
- 1. Lord, D. (1995) L'utilisation des conflits routiers dans le cadre des analyses de sécurité piétonnière, *published in the Proceedings of the 30th Annual Meeting of the AQTR (Tome 1)*, April 5-7, Association québécoise du transport et des routes, pp. 373-375. (in French)

SELECTED RESEARCH REPORTS AND PAPERS

- 13. Lord, D., M.A. Brewer, K. Fitzpatrick, S.R. Geedipally, and Y. Peng. Analysis of Roadway Departure Crashes on Two-Lane Rural Roads in Texas. FHWA/TX-11/0-6031-1, Texas Transportation Institute, College Station, TX, December 2011.
- 12. Geedipally, S.R., D. Lord and C. Eugene Buth (2011) Estimating the Crash Risk involving Heavy Vehicles and Bridge Piers. Working Paper. Zachry Department of Civil Engineering, Texas A&M University, College Station, TX.
- 11. Vieira Gomes, S., S.R. Geedipally, and D. Lord (2010) Estimating the Safety Performance of Urban Intersections in Lisbon, Portugal. Working Paper. Zachry Department of Civil Engineering, Texas A&M University, College Station, TX.
- 10. Eisele, W.L., C.E. Yager, M.A. Brewer, W.E. Frawley, E. Park, D. Lord, J.A. Robertson, P. Kuo. Safety and Economic Impacts of Converting Two-Way Frontage Roads to One-Way: Methodology and Findings. TTI Report 0-5856-1, Texas Transportation Institute, College Station, TX, January 2011.
- Buth, C.E., W.F. Williams, M.S. Brackin, D. Lord, S.R. Geedipally, A. Abu-Odeh (2010) Analysis of Large Truck Collisions with Bridge Piers: Phase 1. Report of Guidelines for Designing Bridge Piers and Abutments for Vehicle Collisions. TTI Report 9-4973-1, Texas Transportation Institute, College Station, May 2010.
- 8. Stamatiadis, N., J.G. Pigman, J. Sacksteder, W. Ruff, D. Lord. Impact of Shoulder Width and Median Width on Safety, NCHRP Report 633, Transportation Research Board, Washington, D.C., 2009.
- 7. Bonneson, J.A., K. Fitzpatrick, D. Lord, K.H. Zimmerman. Incorporating Safety into the Highway Design Process: Summary Report, TTI Report Number: 0-4703-S, Texas Transportation Institute, College Station, October 2009.
- Giusti, C.H., C. Lee, D. Lord, K.M. Wieters. Transportation Infrastructure and Quality of Life for Disadvantage Populations: A Pilot Study of El Cenizo Colonia in Texas. SWUTC/08/167162-1, Texas Transportation Institute, College Station, September 2008.
- 5. Lord, D., Persaud, B.N., Washington, S.P., Ivan, J.N., van Schalkwyk, I., Lyon, C., Jonsson, T., and Geedipally, S.R. (2008) Methodology for Estimating the Safety Performance of Multilane Rural Highways. NCHRP 17-29 Project, National Cooperation Highway Research Program, Washington, D.C.
- 4. Bonneson, J.A., D. Lord, K.H. Zimmerman, K. Fitzpatrick, M.P. Pratt Title: Development of Tools for Evaluating the Safety Implications of Highway Design Decisions, TTI Report Number 0-4703-4, Texas Transportation Institute, College Station, February 2007.
- Lord, D., I. van Schalkwyk, L. Staplin, and S. Chrysler (2005) Reducing Older Driver Injuries at Intersections Using More Accommodating Roundabout Design Practices. TTI Report CTS-05-01. Texas Transportation Institute, College Station, TX.
- 2. Lord, D., S.P. Washington, J.N. Ivan (2005) Statistical Challenges with Modeling Motor Vehicle Crashes: Understanding the Implications of Alternative Approaches. TTI report CTS-04-01. Texas Transportation Institute, College Station, TX.

1. Lord, D., H.A. Abdou, A. N'Zué, G. Dionne , and C. Laberge-Nadeau (2003) Investigating Sites Located on Two-Lane Rural Roads in Burkina Faso for Safety Improvements. Research Report, College Station, TX.

I participated in numerous research activities at TTI. Other research reports I have co-authored can be obtained here:

http://tti.tamu.edu/publications/catalog/?title=&report_author=lord&report_number=&keyword=&publication_year=&action=submit&search=advanced

FUNDED RESEARCH

Recent relevant research projects I was or am currently involved as a key researcher.

| Agency | Key Researchers | Title | Project Amount | Period |
|------------|---|---|-------------------|-----------------------|
| NCHRP | Bahar Dadashova, Pl Dominique Lord, Co-l | NCHRP 17-112: Enhancing Crash Modification Factors and Safety Performance Functions for Pedestrian and Bicyclist Countermeasures | \$600,000 | March 2024-Feb. 2026 |
| NCHRP | Dominique Lord, PI | TBD (will become official soon) | TBD | TBD |
| FHWA | Yang Zhou, PI Dominique Lord, Co-PI (submitted the proposal as PI) | Digital-Twin Enabled Extended Active Safety Analysis for Mixed Traffic | \$730,000 | Oct 2023-Sept.2026 |
| FHWA | Raul Moran PI Dominique Lord | Safety Countermeasure Optimization for Connected Vehicles | \$300,000 | June 2021-Dec. 2022 |
| FDOT | Srinivas Geedipally PI Dominique Lord Co-PI | Developing Safety Performance Function and Crash Modification Factor for Managed Lanes Separation Treatments | \$80,000 | Sept. 2020-April 2022 |
| TxDOT | Srinivas Geedipally PI Dominique Lord | 0-7083 Develop Highway Safety Manual (HSM) Safety Performance Functions (SPFs) and Calibration Factors for Texas | \$300,000 | Sept. 2020-Aug, 2022 |
| FHWA | Kay Fitzpatrick PI Dominique Lord | Crash Modification Factor for Corner Radius, Right-Turn Speed, and Prediction of Pedestrian Crashes at Signalized Intersections | \$310,000 | Jan. 2020-June 2021 |
| TxDOT | Mike Pratt PI Dominique Lord | Enhancing Freeway Safety Prediction Models | \$275,000 | Sept. 2019-Dec 2021 |
| TxDOT | Mike Pratt PI Dominique Lord | Evaluation of Roadside Treatments to Mitigate Roadway Departure Crashes | \$220,000 | Sept. 2018-Feb 2020 |
| NCHRP | Karen Dixon PI Dominique Lord | 17-92: Developing Safety Performance Functions for Rural Two-Lane Highways that Incorporate Speed Measures | \$500,000 | May 2019 – April 2022 |
| Safe-D | Ioannis Tsapakis PI Dominique Lord | Use of Disruptive Technologies to Support Safety Analysis and Meet New Federal Requirements | \$1,601,000 | Aug. 2018-May 2020 |
| TxDOT | Raul Moran PI Dominique Lord | Evaluation of Roadside Treatments to Mitigate Roadway Departure Crashes | \$220,000 | Sept. 2018-Feb 2020 |
| TxDOT | Srinivas Geedipally Pl Dominique Lord | IAC (Task B) | \$40,000 | Sept. 2018-Aug. 2019 |
| FHWA | Subasish Das Dominique Lord | Rural Speed Safety Project for USDOT Safety Data Initiative | \$240,000 | July 2017-Dec 2018 |
| Safe-D UTC | Alireza Talebpour PI Dominique Lord Co-PI | Preventing Crashes in Mixed Traffic with Automated and Human-Driven Vehicles | \$140,000 | May 2018-Aug 2019 |
| Safe-D UTC | Dominique Lord PI Srinivas Geedipally | Big Data Methodologies for Simplifying Traffic Safety Analyses | \$100,000 | May 2017-Dec. 2018 |
| FHWA | Raul Avelar PI Dominique Lord | Evaluation of Safety Improvements, Phase X | \$410,000 | May 2018-Jan-2020 |
| TxDOT | Srinivas Geedipally Pl Dominique Lord | IAC (Task C) | \$40,000 | Jan 2017 – Aug. 2017 |

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|-----------------------------------|--|--|-----------------|---------------------------|
| Michigan State University/MDOT | Raul Avelar Pl Dominique Lord | OR14-027: Michigan Rural Safety Performance Function (SPFs) Development and Support | \$70,000 | Oct. 2015 – Sept. 2017 |
| NCHRP | Karen Dixon PI Dominique Lord | NCHRP 17-79: Safety Effects of Raising Speed Limits to 75 mph and Higher | \$500,000 | Sept. 2016-Aug. 2019 |
| TxDOT | Mike Pratt PI Dominique Lord | State of the Practice: Curve Crash Trends and Pavement Management Practices | \$300,000 | Sept. 2017-Aug. 2019 |
| TxDOT | Mike Pratt PI Dominique Lord | Developing Pavement Safety-Based Guidelines for Improving Horizontal Curve Safety | \$300,000 | Sept. 2016-Aug. 2018 |
| TxDOT | Srinivas Geedipally PI Dominique Lord | IAC (Task C) | \$60,000 | Sept. 2015-Aug. 2016 |
| NCHRP | Melissa Findley Pl Dominique Lord | 03-117: Traffic Control Devices and Measures for Deterring Wrong-Way Movements | \$300,000 | July 2015- July 2017 |
| NCHRP | Srinivas Geedipally PI Dominique Lord | NCHRP 17-67: Identification of Factors Contributing to the Decline of Traffic Fatalities in the United States | \$300,000 | Spt. 2014-Feb. 2018 |
| NCHRP | Karen Dixon PI Dominique Lord | 17-66: Guidance for Selection of Appropriate Countermeasures for Opposite Direction Crashes | \$350,000 | Aug, 2014 – Aug. 2016 |
| ATLAS (UTC) | Dominique Lord PI Srinivas Geedipally | Developing a procedure for estimating the required sample size for safety performance function calibration factors | \$72,000 | Sept. 2014-Dec. 2015 |
| TxDOT | Troy Walden PI Dominique Lord | Safety Analysis in Support of TxDOT Traffic Operations Responsible for Task C: Develop a Methodology for Identifying, Evaluating and Prioritizing Systemic Improvements | \$250,000 | Sept. 2013 – Aug. 2014 |
| NCHRP | Dominique Lord PI Kay Fitzpatrick Srinivas Geedipally | 17-58: Safety Prediction Models for Six-Lane and One-Way Urban and Suburban Arterials | \$600,000 | Jan. 2013 – March 2016 |
| Signage Foundation, Inc. | Gene Hawkins PI Dominique Lord Co-PI | Statistical Analysis of the Relationship between On-Premise Digital Signage and Traffic Safety | \$93,000 | Jan. 2012 – Nov. 2012 |
| TxDOT | Kay Fitzpatrick PI Dominique Lord Marcus Brewer | Evaluation of Pedestrian and Bicycle Safety Engineering Countermeasures | \$711,000 | Sept. 2011- Aug. 2013 |
| TxDOT | Brooke Ullman PI Mike Pratt PI (last year of project) Dominique Lord Srinivas Geedipally | Surface Treatments to Alleviate Crashes on Horizontal Curves | \$318,598 | Sept. 2011- Aug. 2013 |
| TxDOT | Gene Hawkins Pl Dominique Lord Several others | Guidelines for Continuous and Safety Roadway Lighting | \$199,988 | Sept. 2010- Aug. 2012 |
| NCHRP | James E. Bonneson PI Dominique Lord Srinivas Geedipally | Enhanced Safety Prediction Methodology and Analysis Tool for Freeways and Interchanges | \$700,000 | Nov. 2009-Feb. 2012 |
| LNEC in Portugal | Dominique Lord PI | Developing Accident Prediction Models for Urban Areas | \$55,000 | Dec. 2007 – Nov. 2009 |
| TxDOT | Dominique Lord PI Kay Fitzpatrick | Analysis of Roadway Departures on Two-Lane Rural Roads | \$390,000 | Sept. 2007 – Aug. 2011 |
| TxDOT | Bill Eisele PI Dominique Lord | Safety and Economic Impacts of Converting Two-way Frontage Roads to One-way | \$311,000 | Sept. 2007 – Aug. 2009 |
| TxDOT | Gene Buth PI Dominique Lord | Guidelines for Designing Bridge Piers and Abutments for Vehicle Collisions | \$315,000 | April 2007 – Aug. 2010 |
| SWUTC | Dominique Lord Co-PI Cecilia Giusti Co-PI Chanam Lee Co-PI All Co-PIs | Transportation Infrastructure and Quality of Life for Disadvantage Populations: A Pilot Study of Two Colonias in Texas | \$50,000 | Sept. 2006 – Aug. 2008 |
| University of Kentucky | Dominique Lord PI | Safety Impacts of Design Element Trade-Offs | \$25,000 | Sept. 2007 – July 2008 |
| TxDOT | Danny Morris Pl John Mounce | Safety Analysis in Support of Traffic Operations | \$100,000 | Sept. 2006 – Aug. 2007 |

| | Kay Fitzpatrick Dominique Lord Sub-consultants | Engineering Countermeasures | | |
|---------|--|--|-----------|---------------------------|
| TxDOT | Sue Chrysler PI Dominique Lord | Guidelines for Signs and Marking on Toll Roads. | \$130,000 | Sept. 2006 – Aug. 2007 |
| TxDOT | James A. Bonneson PI Karl Zimmerman Kay Fitzpatrick Dominique Lord | Incorporating Safety into the Highway Design Process | \$998,600 | Sept. 2003 – Aug. 2009 |
| NCHRP | Dominique Lord PI Shaw-Pin Miaou Sub-consultants | 17-29: Methodology to Predict the Safety Performance of Rural Multilane Highways | \$700,000 | July 2004 – April 2008 |
| NCHRP | Kay Fitzpatrick PI Shawn Turner Paul Carlson Eun-Sug Park Dominique Lord | Innovative Pedestrian Treatments at Unsignalized Crossings | \$550,000 | Nov. 2002 – March 2006 |
| NIH/CDC | Dominique Lord Pl Ida van Schalkwyk | Reducing Older Driver Injuries at Intersections Using More Accommodating Roundabout Design Practices | \$99,500 | Sept. 2003 – Aug. 2004 |

GRADUATE STUDENT SUPERVISION

Ph.D. COMMITTEE CHAIR

Srinivas Geedipally

Started: Sept 1st, 2005 Dissertation title: Examining the Application of Conway-Maxwell-Poisson Models for Analyzing Crash Data Graduated: December 2008

Byung Jung Park

Started: Sept 1st, 2006 Dissertation title: Application of the Finite Mixture of Negative Binomial Regression Models for Vehicle Crash Data Analysis Graduated: May 2010

Fan Ye

Started: Jan 1st, 2007 Dissertation title: Investigating the Effects of Sample Size, Model Misspecification, and Underreporting in Crash Data on Three Commonly Used Traffic Crash Severity Models Graduated: May 2011

Pei-Fen Kuo

Started: Sept 1st, 2007 Dissertation title: Estimating the Effects of Site Selection Criteria for Evaluating the Effectiveness of Traffic Safety Improvement Countermeasures Graduated: May 2012

Myunghoon Ko

Started: Sept 1st, 2008 Dissertation title: Incorporating Vehicle Emission Models into the Highway Design Process Graduated: December 2011

Yichuan Peng

Started: Sept 1st, 2008 Dissertation title: Examining the generalized Waring regression model for the analysis of traffic crashes Graduated: May 2013

Seyed Hadi Khazraee Khoshroozi

Started: January 1st, 2012 Thesis title: Full Bayesian Poisson-Hierarchical Models for Crash Data Analysis: Investigating the Impact of Model Choice on Site-Specific Predictions Graduated: August 2016

Lingtao Wu

Started: September 1st, 2012 Dissertation title: Examining the Use of Regression Models for Developing Crash Reduction Factors Graduated: May 2016

Mohamadali Shirazi

Started: September 1st, 2013 Thesis title: Advanced Statistical Methods for Analyzing Crash Datasets with Many Zero Observations and a Long Tail: Semiparametric Negative Binomial Dirichlet Process Mixture and Model Selection Heuristics Graduated: Dec 2018

Maryam Mousavi

Started: January 1st, 2016 Dissertation title: Examining the Impact of Non-Infrastructure Variables on the Safety Performance of Autonomous Vehicles at Signalized Intersections Using Machine Learning Techniques Graduated: Dec. 2020

Soheil Sohrabi

Started: January 1st, 2018 Dissertation title: Evaluating Automated Vehicles Safety Performance: Examining the Application of Survival Analysis for AV Safety Validation Graduated: Aug. 2021

Khodadadi, Ali

Started: January 1st, 2019 Dissertation title: TBD Graduated: TBD

Richard Dzinyela

Started: September 1st, 2021 Dissertation title: TBD Graduated: TBD

Mohammad Anis

Started: January 1st, 2022 Dissertation title: TBD Graduated: TBD

M.S. COMMITTEE CHAIR

Bhushan Gokhale

Started: Sept 1st, 2004 Thesis title: Application of Landfill Gas as a Liquefied Natural Gas for Refuse Trucks in Texas Graduated: December 2006

GiridharReddy SingiReddy

Started: Sept 1st, 2005

Thesis title: Evaluating TxDOT's safety Improvement Index (SII): A Prioritization Tool Graduated: December 2007

Vichika Iragavarapu

Started: Sept 1st, 2005 Thesis title: Examining Potential Factors Affecting the Safety Performance and Design of Exclusive Truck Facilities Graduated: December 2007

Thanh Le

Started: Sept 1st, 2007 Thesis title: Application of Microscopic Simulation to Evaluate the Safety Performance of Weaving Sections Graduated: December 2009

Lingzi Cheng

Started: September 1st, 2010 Thesis title: Examining the Poisson-Weibull Generalization Model for Analyzing Crash Data Graduated: August 2012

Yaotian Zou

Started: September 1st, 2010 Thesis title: Over- and Under-Dispersed Crash Data: Comparing the Conway-Maxwell-Poisson and Double-Poisson Distributions Graduated: August 2012

Praphyusha Vangala

Started: September 1st, 2012 Thesis title: Negative Binomial-Generalized Exponential Distributions: Generalized Linear Model and Its Applications Graduated: August 2015

Bharadwaj Bommanayakanahalli

Started: January 1st, 2016 Thesis title: Improved Guidelines for the Recalibration of Prediction Models over Time based on Model Uncertainty Graduated: August 2018

Tahmida Hossain Shimu

Started: September 2017 Graduated: May 2019 Thesis title: Examining the Factors Causing a Drastic Reduction and Subsequent Increase of Roadway Fatalities on United States Highways between 2005 and 2016

Aman Sharma

Started: January 2018 Graduated: December 2019 Thesis title: Analyzing Crash Potential in Mixed Traffic with Autonomous Vehicles.

Ankit Jhamb

Started: September 2018 Graduated: August 2020 Thesis title: Examining Crash Location Characteristics in Texas between 2003 and 2017 to Assess the Effects of the Great Recession on Fatalities. **Uthej Vattipalli** Started: September 2020 Graduated: TBD Thesis title: TBD

Rutuja Jagatap

Started: September 2021 Graduated: May 2023 Thesis title: TBD

UNDERGRADUATE (Scholars Program)

Connie Xavier Started: Sept. 14, 2014 Thesis title: Evaluating the Effectiveness of Crash Test Guidelines Graduated: May 2015

George Gillette

Started: Sept. 14, 2016 Thesis title: Investigation of Pedestrian-Cyclist Interactions through Machine Vision Graduated: May 2017

M.E./M.S. DEGREE CHAIR

Basit Farooq, Grad: 2022 Guneet Saini, Grad: 2022 Kunal Bathia, Grad: 2021 Robert Clark, Grad: 2021 Shuang "Bobie" Guo, Grad: 2020 Kuriachan Job, Grad: 2019 Iman Rahim. Grad: 2018 Zifeng Liu, Grad: 2016 Darshan Padmanabha, Grad: 2016 Rudraradhya Hiremath, Grad: 2016 Adrian Contreras, Grad: 2015 Elizabeth Nelson, Grad: 2015 Sangyong You, Grad: 2014 Welling Wu, Grad: 2012 Hien Pham, Grad: 2012 Yajie Zou, Grad: 2010 Sriram Banda, Grad: 2008 Charles R. Stevens, Grad: 2005 Seong-Hee Cho, Grad: 2005

Ph.D and M.S. COMMITTEE MEMBER

Note: There are several others I did not include here. Jennifer McDonald (Ph.D. in Psychology, 2021) Chung-Wei Shen (Ph.D., 2012) Siqi Li (M.S., TBD) Yanru Zhang (M.S., Aug. 2011) Mehdi Azimi (Ph.D., TBD) Chihyi Wang (Ph.D. in Statistics, TBD) Fang Wen (M.S., Dec. 2010) Nai-wei Chen (Ph.D. in Statistics, December 2011) Uday Manepalli (MS, Missouri University of S&T, December 2010) Stijn Daniels (Ph.D., Hasselt University in Belgium, May 2010) Mandeep Singh (M.Sc., Dec 2009) Xiugang Li (Ph.D., May 2009) Yuanchang Xie (Ph.D., September 2007) Zhirui Ye (Ph.D., September 2007) Maneesh Malahwat (M.Sc., December 2007) Madhuri Gogula (M.Sc., March 2006) Linhua Li (M.S., June 2006)

PROFESSIONAL ASSOCIATIONS

Professional Engineers of Ontario (Member) Ordre des ingénieurs du Québec (Member) Association québécoise du transport et des routes (Member) The Canadian Association of Road Safety Professionals (Member) Institute of Transportation Engineers (Member) Transportation Research Board (Member) American Society for Civil Engineers (Member until 2017)

PROFESSIONAL SERVICE

Membership

1994-Present

1995-Present

TRB Special Task Force for the Highway Safety Manual (Scientific Review Committee) Member of TRB Committee ABJ80 (Statistical Methods) (2004-2014) Member of TRB Committee ANB20 (Safety Data, Analysis and Evaluation) (2010-2020) Member of TRB Committee ANB25 (Highway Safety Performance) (2012-2020) Member of TRB Committee ACS20 (Safety Performance and Analysis) (2020-2022) Friend of TRB Committees of ANF10 (Pedestrians)

Scientific Reviewer

<u>Senior Position:</u> Transportation Research Record – Handling Editor (2020-2023) Analytic Methods in Accident Research - Associate Editor (2013-2021); Distinguished Editorial Board Member (2022-Present) Accident Analysis & Prevention – Associate Editor (2023 – Present) and Board Member (2005-2023)

Proposal and Ph.D. Dissertation Review: Queensland University of Technology (Australia) (2022) Fonds québécois de la recherche sur la nature et les technologies (FQRNT) (2010 -2022) United Arab Emirates University (2021) PacTrans (University of Washington (2015-Present) National Scientific Foundation (NSF) Hong Kong Research Grants Council Virginia Tech Transportation Institute Fundação para a Ciência e Tecnologia (Portugal) Hasselt University (Belgium) Macquari University (Australia)

Journals (partial list):

Journal of Transportation Engineering (ASCE), Risk Analysis, Accident Analysis & Prevention (Editorial Board: January 2006 - present), Analytic Methods in Accident Research (Emeritus Editor), Journal of Transportation and Statistics, Transportation Journal, Safety Science, Journal of Transport Geography, Transportation Research – Part A, Transportation Research – Part B, Transportation Research - Part C, Journal of Intelligent Transportation Systems, Transportmetrica – Part A, Canadian Journal of Civil Engineering (Guest Associate Editor+regular reviews), European Journal of Transport and Infrastructure Research, Journal of Statistical Computation and Simulation, IEEE, Statistics in Medicine, International Journal of Injury Control and Safety Promotion, and many more journals.

Tenure and Full Professor External Reviews

I have reviewed over 25 cases for universities all over the world.

UNIVERSITY AND COMMUNITY SERVICE

| ACES Engineering (Minority Scholarships) (CE Department), Member Promotion & Tenure Committee Chair (elected) (CE Department) Promotion & Tenure Committee (CE Department) (elected) Honors & Awards Committee (College of Engineering) Division Head, Transportation & Materials College of Engineering Representative – Member | 2022 2022-Present 2020-Present 2019-2021 2014-2016 |
|---|--|
| - Transportation working group for the Texas Office for Homeland Security | 2014-2016 |
| Member - CE Endowed Position Committee - Zach Dept. of Civil Eng. | 2013-2017 |
| Chair - Awards Committee - Zach Dept. of Civil Eng. | 2013-2021 |
| TAMU-ITE Student Chapter Faculty Representative | 2010-2014-2019 |
| College of Engineering Representative – Faculty Advisory Board: | |
| Disability Services (University) | 2009-2012 |
| Member of the Tenure and Promotion Committee, | 2010-2018 |
| Sub-committee chair for the 3-rd year review of Dr. Bruce Wang Sub-committee member for the tenure and promotion | 2010-2011 |
| of Dr. Luca Quadrifoglio | 2010-2011 |
| Faculty member responsible for the System Engineering Safety Certificate | 2007-Present |
| Graduate Task Force, Member, Appointed | 2005-2006 |
| Sub-committee Degree Requirements | |
| Sub-committee Assistantships and Scholarships | |
| Sub-committee member for various Graduate Transportation Awards | 2004-Present |

COMPUTING KNOWLEDGE

Transportation: EMME/2, LOGIT, HCS, QRS II, SIDRA

Others: Windows XP&7, UNIX, WordPerfect 11, Quattro Pro 11, Paradox 11, Microsoft Office XP 2007, 2010& 2013 QuickBASIC, C/C++, GLIM, Genstat, SAS, AutoCAD, Civil 3D, MathCAD, WinBUGS

EXTRACURRICULAR ACTIVITIES

| Financial Officer for the Social Committee of the Lexington Corporation | 1999-2000 |
|---|-----------|
| Financial Officer and Vice-President for the ITE Student Chapter | 1995-1998 |
| First Floor Representative at the Rowell Jackman Hall Residence | 1995-1996 |
| Montréal Young Board of Trade | 1994-1995 |
| President of the St. George Graduate Residence Committee | 1993-1994 |
| Member of the St. George Graduate Residence Committee | 1992-1993 |
| Student-editor for the bimonthly journal <i>Canadian Civil Engineer</i> | 1990-1992 |
| Commissionner for the <i>Fédération québécoise des sports cyclistes</i> | 1991-1992 |