

KARIM EL-BASYOUNY, PH.D., P.ENG.

CURRICULUM VITAE

I- PERSONAL INFORMATION

- Name: Karim El-Basyouny
- Professional Designation: Professional Engineer (P.Eng.) in Alberta since 2016
- Work Phone: 1 780-716-1457
- Fax: 1 780 492 0249
- Email Address: karim.el-basyouny@ualberta.ca
- Web Address: karimelbasyouny.com
- Mailing Address: 6-265 DICE – 9211 116th Street NW
University of Alberta, Edmonton, AB
T6G 1H9 CANADA



scopus



academia



researchgate



google-scholar



orcid



linkedin

EDUCATION

2006 – 2011 **University of British Columbia** **Vancouver, BC, Canada**

Ph.D. degree, examined January 2011, convocated May 2011

- Thesis Title: New Techniques for Developing Safety Performance Functions
- Supervisor: Prof. Tarek Sayed
- Completed the requirements for the ‘*Engineering Management Sub-specialization*’

2004 – 2006 **University of British Columbia** **Vancouver, BC, Canada**

M.A.Sc. degree, accepted July 2006, convocated November 2006

- Dissertation Title: Field Validation for Surrogate Safety Assessment Methodology (SSAM) using a Multi-Purpose Micro-simulation
- Supervisor: Prof. Tarek Sayed

1998 – 2003 **United Arab Emirates University** **Al-Ain, Abu Dhabi, UAE**

Bachelor Degree in Civil & Environmental Engineering (ABET Equivalent Program)

- Graduated with honors
-

EXPERIENCE

July 2011 - present

University of Alberta

Edmonton, AB, Canada

City of Edmonton Assistant Professor of Urban Traffic Safety – Transportation Engineering – Civil & Environmental Engineering Department

- Research focus on **traffic safety**, and more recently on **speed management** and the role of **intelligent transportation systems** in improving safety
- Holds the City of Edmonton's Research Chair in Urban Traffic Safety
- Research supported by NSERC, City of Edmonton, Edmonton Police Service, Capital Regional Intersection Safety Partnership, Alberta Transportation, and Canadian Foundation for Innovation

May 2010 – June 2011

City of Edmonton (COE)

Edmonton, AB, Canada

Method Analyst II – Office of Traffic Safety – Transportation Services

- Conducted a comprehensive evaluation of the city's Pilot Project on Residential Speed Limit Reduction
- Worked with the Senior Speed Coordinator to develop a Speed Management Continuum framework
- Worked with the Senior Traffic Engineer to develop an Engineering Safety Improvement Program
- Provided expertise to several safety data integration programs within the city

September 2004 to June 2010

University of British Columbia

Vancouver, BC, Canada

Research Assistant – Transportation Engineering – Civil Engineering Department

- Proposed new techniques to improve the state-of-the-art in crash modeling: to improve the predictive power and fit of existing safety models in order to better understand the factors that influence collisions occurrence
- Introduced novel methods for traffic safety evaluations in order to propose more effective safety-related countermeasures
- Evaluated the Insurance Corporation of British Columbia's Stop Sign Infill and Road Dieting Programs.
- Conducted a field validation of the Surrogate Safety Assessment Methodology for Federal Highway Administration: Office of Safety Research & Development and Siemens Energy & Automation, Inc. Intelligent Transportation Systems Business Unit

Teaching Assistant – Transportation Engineering – Civil Engineering Department, duties include:

- Instructing and helping undergraduate engineering students
- Grading assignments and exams as well as invigilating midterm and final exams

July 2007 to December 2008

University of British Columbia

Vancouver, BC, Canada

Research Associate - Bureau of Intelligent Transportation Systems & Freight Security – Civil Engineering Department

- Analyzed the baseline and 2010 Winter Olympic Games affected population totals due to the hypothetical release of dangerous goods within the vicinity of Olympic Games venues in the northern part of the City of Vancouver
- Developed a risk/cost-based algorithm for the routing of dangerous goods by identifying, formulating, and integrating a set of routing criteria from currently available datasets into an analytical GIS environment for the province of British Columbia

December 2003 to July 2004

United Arab Emirates University

Al-Ain, Abu Dhabi, UAE

Research Assistant – Environmental Engineering – Civil & Environmental Engineering Department

- Investigated the environmental regulations that deal with fugitive dust, the impact of fugitive dust on human health and global climate system, and the available methods for calculating fugitive dust externalities

CITY OF EDMONTON ASSISTANT PROFESSOR IN URBAN TRAFFIC SAFETY

CREATION	The City of Edmonton, through a motion of City Council, created a permanently endowed Urban Traffic Safety Research Chair at the Department of Civil and Environmental Engineering, University of Alberta. On July 1, 2011, after an international competition, Dr. Karim El-Basyouny accepted the position of the City of Edmonton Assistant Professor of Urban Traffic Safety at the University of Alberta. A joint initiative of the City and the University of Alberta, the Urban Traffic Safety Research Chair, herein referred to as Research Chair, is a one-of-a-kind academic posting for traffic safety engineering in Canada and probably in North America. This Research Chair position has a very unique scope with a focus on traffic safety in urban built environments.
SAFETY FOCUS	Traffic safety is a major problem. Every year there are approximately 25 fatalities and 8,000 injuries in the city of Edmonton. The direct economic costs of traffic collisions have been estimated at a staggering CDN\$ 1 billion annually. The problem is also a common one in the province and around Canada. Every four hours one person dies and every ninety minutes another person is being admitted to a hospital as a result of traffic collisions on Canadian roads. These statistics demonstrate that the traffic safety problem has far reaching social and economic impacts, affecting the lives and welfare of not only Edmontonians, but thousands of Canadians from around the country.
URBAN FOCUS	The urban context is very important as it addresses an unjustified gap in the safety literature. It is forecasted that within the next decade, the vast majority of people will be living in urban environments. This population shift will increase the demand on our transportation system, a system that is now responsible for 70% of all injury collisions in Canada. The truth is that the greater part of injury collisions occurs in urban environments, particularly at intersections. The problem is even more compounded when the safety of vulnerable road users, such as pedestrians, cyclists, and motorists, is considered.
GOALS	The Research Chair acknowledges the existence of urban traffic safety problems and works collaboratively with the City of Edmonton through the Office of Traffic Safety and other transportation departments to establish and maintain sound scientific practices in the area of traffic safety making it an explicit priority in the planning, design, and operation cycles of Edmonton's roadway infrastructure. The Research Chair signed a multi-year Memorandum of Understanding (MOU) with the City of Edmonton through the Office of Traffic Safety. The MOU sets forth a bi-lateral agreement between the City of Edmonton, Transportation Services, and the University of Alberta, Faculty of Engineering. This agreement does not imply a legal commitment, rather a framework for improving Urban Traffic Safety in Edmonton through research, education (academic and training), and outreach programs created or supported by the Research Chair.

MERIT-BASED SCHOLARSHIPS, AWARDS, AND HONOURS

- | | |
|-----------|--|
| 2016 | <ul style="list-style-type: none"> ▪ Capital Region Intersection Safety Partnership Student Paper Competition – 1st Place (tied) for our paper [Tanfeek, M.H., Ke, Y., Gao, J., Zhang, H., El-Basyouny, K., and Qiu, T. (2016) <i>The Impact of Vehicle-to-Infrastructure Communication on Driver Performance and Safety.</i>] |
| 2016 | <ul style="list-style-type: none"> ▪ Capital Region Intersection Safety Partnership Student Paper Competition – 1st Place (tied) for our paper [Gargoum, S. and El-Basyouny, K. (2016) <i>Assessing the Safety Effects of Excessive Speeding Legislation in Canada.</i>] |
| 2016 | <ul style="list-style-type: none"> ▪ TRB Young Researcher Paper Award from the Safety Data, Analysis and Evaluation Committee (ANB20) for our publication [Islam, M.T., El-Basyouny, K., Ibrahim, S., and Sayed, T. (2016) <i>Before-After Safety Evaluation using Full Bayesian Macroscopic Multivariate and Spatial Models. Transportation Research Record: Journal of the Transportation Research Board. DOI: 10.3141/2601-15.</i>] |
| 2015 | <ul style="list-style-type: none"> ▪ TRB Best Paper Award from the Statistical Methodology Committee (ABJ80) for our publication [Sacchi, E., Sayed, T., and El-Basyouny, K. "Multivariate Full-Bayesian Hotspot Identification and Ranking: A New Technique" <i>Transportation Research Record: Journal of the Transportation Research Board. Vol. 2515, pp. 1-9, 2015.</i>] |
| 2014 | <ul style="list-style-type: none"> ▪ Student Paper Award (3rd Place) at Transportation Association of Canada Conference and Exhibit for our publication [Barua, S., El-Basyouny, K., Islam, M.T., and Gargoum, S. (2014) <i>Lessons Learned from Adopting the Highway Safety Manual to Assess the Safety Performance of Alternative Urban Complete Street Designs. Proceedings of the 2014 TAC Conference & Exhibition, Montréal, Canada, September 28 – October 1st, 2014.</i>] |
| 2012 | <ul style="list-style-type: none"> ▪ Paper Award from Elsevier for authoring one of the top-10 most-cited articles published in Accident Analysis and Prevention between 2009 and 2011 for our publication [El-Basyouny, K. and Sayed, T. "Collision Prediction Models using Multivariate Poisson-lognormal Regression" <i>Accident Analysis and Prevention. Vol. 41, No. 4, pp. 820-828, July 2009.</i>] |
| 2011 | <ul style="list-style-type: none"> ▪ Honored by City of Edmonton's Mayor Stephen Mandel for chairing Edmonton's 3rd International Conference on Urban Traffic Safety, Edmonton, AB, Canada |
| 2010 | <ul style="list-style-type: none"> ▪ Recipient of the Transportation Association of Canada (TAC) Foundation's MMM Group Limited Scholarship, part of the TAC Scholarship Foundation Awards, Halifax, Nova Scotia, Canada |
| 2006-2010 | <ul style="list-style-type: none"> ▪ Recipient of the Doctor of Philosophy Tuition Fee Award, University of British Columbia, Vancouver, BC, Canada |
| 2005 | <ul style="list-style-type: none"> ▪ Recipient of the Mavis Johnson Scholarship Award, Insurance Corporation of British Columbia (ICBC), Vancouver, BC, Canada |
| 2004-2006 | <ul style="list-style-type: none"> ▪ Recipient of the International Partial Tuition Scholarship Award, University of British Columbia, Vancouver, BC, Canada |
-

II- TEACHING

TEACHING EXPERIENCE

Lecturer: Road Traffic Safety (CIV E 616), Civil Engineering, the University of Alberta, Edmonton, AB, Canada (Fall 2011 - present)

- This is a graduate level course intended to introduce the students to different topics in traffic safety. State-of-the-art statistical analysis and current research findings are presented throughout the course.

Lecturer: Highway Geometric Design (CIV E 719), Civil Engineering, the University of Alberta, Edmonton, AB, Canada (Winter 2015 - present)

- This course introduces graduate students to the field of highway geometric design while offering a deep insight into the basic principles of highway design. The course examines the components of the highway system, their interrelationships, their abilities and limitations, and their interrelation with the design elements.

Lecturer: Transportation Engineering (CIV E 315), Civil Engineering, the University of Alberta, Edmonton, AB, Canada (Winter 2015 - present)

- This course introduces undergraduate students to the field of traffic engineering and highway design. The subject deals primarily with road transportation systems and the traffic analysis process. It focuses on basic traffic data collection and methodologies in traffic flow and Level of Service (LOS). The design of roads and highways including geometric design is also covered.

Lecturer: Transportation Engineering: Highway Planning and Design (CIV E 419), Civil Engineering, the University of Alberta, Edmonton, AB, Canada (Winter 2012)

- This is a capstone transportation design course intended for senior undergraduate students. The overall objective of this course is to introduce senior undergraduate engineering students to the process of highway planning and design.

Invited Lecturer: Technical Communication (CIV E 240) – representing Transportation Group, Civil Engineering, the University of Alberta, Edmonton, AB, Canada (Winter 2015)

- This is a 2nd-year course focused on improving written and oral communications in civil engineering. Lectures and practice on presentation of oral and written reports.

Invited Lecturer: Transportation Impacts (CIVL 582), Civil Engineering, the University of British Columbia, Vancouver, BC, Canada (Fall 2008 and 2009)

- The course addresses key issues related to the methods utilized to measure, predict and evaluate impacts of transportation modes, with an emphasis on road safety.

Teaching Assistant: Transportation Engineering I (CIVL 340), Civil Engineering, the University of British Columbia, Vancouver, BC, Canada (2005, 2006, 2008, and 2009)

- This is an introductory-level course that provides an overview of a number of transportation issues.

Teaching Assistant: Transportation Planning & Analysis (CIVL 441), Civil Engineering, the University of British Columbia, Vancouver, BC, Canada (2009)

- The course discusses issues related to transportation systems planning and analysis.

Teaching Assistant: Urban Engineering Methods & Models (CIVL 583), Civil Engineering, the University of British Columbia, Vancouver, BC, Canada (2009)

- This course focuses on the application of urban analysis methods and models to the design of municipal and transportation engineering systems.

SUPERVISION OF GRADUATE/ UNDERGRADUATE STUDENTS

GRADUATED STUDENTS

Name	Year Admitted	Year Graduated	Degree	% Supervision (Joint with)	Present Position	Employer
1. Avi Thiessen	2011	2016	Masters	100%	Engineering Consultant	MMM
<i>I started the supervision of Avi in Jan. 2015</i>						
<i>Thesis Title: Factors Affecting Operating Speed on Urban Tangent Road Sections</i>						
2. Laura Contini	2013	2015	Masters	100%	Safety Engineer	CoE
<i>Thesis Title: Safety Evaluation of Intersection Safety Camera Program in Edmonton</i>						
3. Md. Tazul Islam	2009	2015	PhD	75% (Dr. Qiu)	Safety Analyst	CoE
<i>I took over 100% supervision of Tazul in Jan. 2012</i>						
<i>Thesis Title: Application of New Modelling Techniques to Perform Observational Before-After Safety Evaluations</i>						
4. Suliman Gargoum	2013	2015	Masters	100%	Research Assistant	UofA
<i>Thesis Title: Assessing the Safety Effects of Excessive Speeding Legislation in Canada</i>						
5. Ran Li	2012	2014	Masters	75% (Dr. Kim)	Safety Engineer	CoE
<i>Thesis Title: Safety Effects of Automated Mobile Photo Enforcement</i>						
6. Sudip Barua	2012	2014	Masters	100%	Safety Engineer	St. Albert
<i>Thesis Title: Effects of Spatial Correlation in Collision Modelling</i>						
7. Xiaobin Wang	2012	2014	Masters	25% (Dr. Kim)	Engineer	CoE
<i>Thesis Title: Scheduling and Deployment Strategies for Mobile Photo Radar Enforcement</i>						
8. Simon Li	2010	2012	Masters	50% (Dr. Sayed)	Engineer	-
<i>Thesis Title: Fully Bayesian Inference Techniques for Traffic Safety Treatment Before-And-After Study</i>						
9. Zhun Tian	2011	2012	Masters	25% (Dr. Sayed)	Engineer	-
<i>Thesis Title: Investigating Speed-Accident Relationship at Urban Signalized Intersections using Accident Prediction Models</i>						
10. Md Maqsudul Molla	2011	2012	M.Eng.	100%	Engineer	-
<i>Thesis Title: Scheduling of Engineering Road Safety Improvement Program for the Office of Traffic Safety, City of Edmonton</i>						
11. Anjita Parajuli	2011	2012	M.Eng.	100%	Engineer	AT
<i>Thesis Title: City-Wide Identification of Locations with High Proportion of Specific Crash Types</i>						
12. Adinda Van Espen	2009	2010	Masters	25% (Dr. Sayed)	Engineer	-
<i>Thesis Title: Evaluating Traffic Safety Performance of Countries using Data Envelopment Analysis and Accident Prediction Models</i>						

UNDERGRADUATE STUDENTS

Name	Year	Scholarship/Employment	% Supervision (Joint with)	Present Position	Employer
1. Lloyd Karsten	Summer/Spring 2016	USRA NSERC	100%	Student	UofA
2. Joseph Sabbagh	Summer/Spring 2016	USRA NSERC	100%	Student	UofA
3. Amanda Gadowski	Summer/Spring 2016	Co-op Undergrad. Student	100%	Student	UofA
4. Kenneth Froese	Summer/Spring 2016	Co-op Undergrad. Student	100%	Student	UofA
5. Jeana Klassen	Summer/Spring 2012	City of Edmonton (Co-op)	100%	Engineer	UofM
6. Aaron Manuel	Summer/Spring 2012	USRA NSERC	100%	Engineer	AT

CURRENT STUDENTS

Name	Year Admitted	Year Graduated	Degree	% Supervision (Joint with)	Present Position	Employer
1. Amnah Gargoum	2016	Present	Masters	100%	Research Assistant	UofA
2. Karim Habib	2016	Present	PhD	50% (Dr. Kim)	Research Assistant	UofA
3. Amr Shalkamy	2016	Present	PhD	100%	Research Assistant	UofA
4. Dr. Liqun Peng	2015	Present	Post-Doc	50% (Dr. Qiu)	Post-doctoral Scholar	UofA
5. Danyang Sun	2015	Present	Masters	100%	Research Assistant	UofA
6. Maged Gouda	2015	Present	Masters	100%	Research Assistant	UofA
7. Suliman Gargoum	2015	Present	PhD	100%	Research Assistant	UofA
8. Mostafa Tawfeek	2014	Present	PhD	100%	Research Assistant	UofA
9. Naomi Li	2014	Present	PhD	25% (Dr. Kim)	Research Assistant	UofA
10. Bryan Whited	2012	Present	Masters	100%	Engineer	CoE

III- RESEARCH

RESEARCH SUPPORT

- Since 2012, the applicant has secured a total of CAD \$1.4 million in research grant through past and current research
- Funded by NSERC, City of Edmonton, Edmonton Police Service, Capital Regional Intersection Safety Partnership, Alberta Transportation, and Canadian Foundation for Innovation

RESEARCH CONTRIBUTIONS

My research interests are centered in the general areas of transportation engineering with particular attention to traffic safety, and more recently on speed management and the role of intelligent transportation systems in improving safety.

- **Statistical analysis of crashes: Data Issues and Novel Methodological Alternatives**
- **Safety Evaluations: Novel evaluation techniques to assess the effectiveness of road safety initiatives**
- **Speed Management: Setting Credible Speed limits and Speed Modeling**
- **Automated Enforcement: Deployment Strategies and Safety Effects**

NEW RESEARCH INTERESTS

More recently my research interests have evolved into exploring the role of intelligent transportation systems in improving safety, specifically the role of connected vehicles in improving the mobility and safety of our transportation infrastructure.

- **Connected Vehicles: Architecture/Data Flow, Field Experimentation, and Safety/Mobility Research**
 - **Applications of Light Detection and Ranging (LiDAR) Technology in Highway Engineering**
-

IV- PUBLICATIONS

ARTICLES PUBLISHED IN REFEREED JOURNALS

- 2016 J1. **Gargoum, S.** and El-Basyouny, K. “Exploring the Association between Speed and Safety: A Path Analysis Approach” *Accident Analysis and Prevention* (**5-year impact factor = 2.699**). Vol. 93, pp. 32-40, August 2016 (no citations).
- J2. **Contini, L.** and El-Basyouny, K. (2016) “Lesson Learned from the Application of Intersection Safety Cameras in Edmonton” *Accident Analysis and Prevention*. Vol. 94, pp. 127-134, September 2016 (no citations).
- J3. Sacchi, E., Sayed, T., and El-Basyouny, K. “A Full Bayes Before-After Study Accounting for Temporal and Spatial Effects: Evaluating the Safety Impact of New Signal Installations” *Accident Analysis and Prevention*. Vol. 94, pp. 52-58, September 2016 (no citations).
- J4. Kim, A., **Wang, X.**, El-Basyouny, K., and Fu, Q. (2016) “Development of a Program Framework for Mobile Photo Radar Enforcement” *Case Studies on Transport Policy*. DOI:10.1016/j.cstp.2016.05.001 (no citations).
- J5. **Li, R.**, El-Basyouny, K., Kim, A., and **Gargoum, S.** (2016) “Relationship between Road Safety and Mobile Photo Enforcement Performance Indicators: A Case Study of the City of Edmonton” *Journal of Safety and Security*. DOI:10.1080/19439962.2016.1173154 (no citations).
- J6. **Islam, M.T.**, El-Basyouny, K., Ibrahim, S., and Sayed, T. “Before-After Safety Evaluation using Full Bayesian Macroscopic Multivariate and Spatial Models” *Transportation Research Record: Journal of the Transportation Research Board* (**2013 impact factor = 0.556 see footnote ¹**). DOI: 10.3141/2601-15 (no citations).
- J7. **Li, N.**, Kim, A., El-Basyouny, K., and **Li, R.** “Using GIS to interpret automated speed enforcement guidelines and guide deployment decisions in mobile photo enforcement programs” *Transportation Research Part A: Policy and Practice* (**5-year impact factor = 3.563**). Vol. 86, pp. 141-158, April 2016 (no citations).
- J8. **Barua, S.**, El-Basyouny, K., and **Islam, M.T.** “Multivariate Random Parameters Collision Count Data Models with Spatial heterogeneity” *Analytic Methods in Accident Research* (**Impact factor = 3.03**). Vol. 9, pp. 1-15, March 2016 (no citations).
- 2015 J9. **Islam, M.T.** and El-Basyouny, K. “Multilevel Models to Analyze Before and After Speed Data” *Analytic Methods in Accident Research*. Vol. 8, pp. 33-44, December 2015 (1 citation).
- J10. **Islam, M.T.** and El-Basyouny, K. “Full Bayesian Evaluation of the Safety Effects of Reducing the Posted Speed Limit in Urban Residential Neighbourhoods” *Accident Analysis and Prevention*. Vol. 80, pp. 18-25, July 2015 (no citations).
- J11. **Barua, S.**, El-Basyouny, K., and **Islam, M.T.** (2015) “Factors Influencing the Safety of Urban Residential Collector Roads” *Journal of Safety and Security*. DOI: 10.1080/19439962.2015.1025459 (no citations).
- J12. **Li, R.**, El-Basyouny, K., and Kim, A. “A Before-and-After Empirical Bayes Evaluation of Automated Mobile Speed Enforcement on Urban Arterial Roads” *Transportation Research Record: Journal of the Transportation Research Board*. Vol. 2516, pp. 44-52, 2015 (no citations).
- J13. **Islam, M.T.** and El-Basyouny, K. “Full Bayesian Mixed-Effect Intervention Model for Before-After Speed Data Analysis” *Transportation Research Record: Journal of the Transportation Research Board*. Vol. 2513, pp. 11-20, 2015 (no citations).
- J14. Sacchi, E., Sayed, T., and El-Basyouny, K. “Multivariate Full-Bayesian Hotspot Identification and Ranking: A New Technique” *Transportation Research Record: Journal of the Transportation Research Board*. Vol. 2515, pp. 1-9, 2015 (no citations).
- J15. **Barua, S.**, El-Basyouny, K., and **Islam, M.T.** “Effects of Spatial Correlation in Random Parameters Collision Count-Data Models” *Analytic Methods in Accident Research*. Vol. 5-6, pp. 28-42, Jan. 2015 (no citations).

¹ Although the TRR is one of the most widely distributed and read transportation journals in the world, the use and readership volume is not reflected in the impact factor. In fact, the TRR has long been recognized as one of the pre-eminent peer reviewed publications for transportation research papers in the United States and around the world. Please visit www.trb.org/~impact_factor for more information.

- 2014 J16. El-Basyouny, K., Barua, S., and Islam, M.T. "Investigation of time and weather effects on crash types using full Bayesian multivariate Poisson lognormal models" *Accident Analysis and Prevention*. Vol. 73, pp. 91-99, Dec. 2014 (2 citations).
- J17. El-Basyouny, K., Barua, S., Islam, M.T., and Li, R. "Assessing the Effect of Weather States on Crash Severity and Types using Full Bayesian Multivariate Safety Models" *Transportation Research Record: Journal of the Transportation Research Board*. Vol. 2432, pp. 65-73, Nov. 2014 (no citations).
- J18. **Barua, S., El-Basyouny, K., and Islam, M.T.** "A Full Bayesian multivariate count data model of collision severity with spatial correlation" *Analytic Methods in Accident Research*. Vol. 3-4, pp. 28-43, Oct. 2014 (5 citations).
- J19. Emanuele, S., Sayed, T., and El-Basyouny, K. "Collision Modification Functions: Incorporating Changes Over Time" *Accident Analysis and Prevention*. Vol. 70, pp. 46-54, Sept. 2014 (6 citations).
- J20. El-Basyouny, K. and Sayed, T. "A framework for an on-Demand Dangerous Goods Routing Support System for the Metro Vancouver Area" *Journal of Engineering Research*. Vol. 2, No. 3, May 2014 (no citations).
- J21. **Islam, M. T., El-Basyouny, K., and Ibrahim S.E.** "The Impact of Lowered Residential Speed Limits in the City of Edmonton" *Safety Science (5-year impact factor = 2.210)*. Vol. 62, pp. 483-494, Feb. 2014 (4 citations).
- J22. **Klassen, J., El-Basyouny, K., and Islam, M. T.** "Analyzing the Severity of Bicycle-Motor Vehicle Collision Using Spatial Mixed Logit Models: A City of Edmonton Case Study" *Safety Science*. Vol. 62, pp. 295-304, Feb. 2014 (2 citations).
- J23. **Manuel, A., El-Basyouny, K., and Islam, M. T.** "Investigating the safety effects of road width on urban collector roadways" *Safety Science*. Vol. 62, pp. 305-311, Feb. 2014 (2 citations).
- 2013 J24. **Li, S., Sayed, T., and El-Basyouny, K.** "Full Bayes Before-After Evaluation of Traffic Safety Improvements in the City of Edmonton, Canada" *Transportation Research Record: Journal of the Transportation Research Board*. Vol. 2386, pp. 189-194, Dec. 2013 (no citations).
- J25. **Islam, M. T. and El-Basyouny, K.** "An Integrated Speed Management Plan to Reduce Vehicle Speeds in Residential Areas: Implementation and Evaluation of the Silverberry Action Plan" *Journal of Safety Research (5-year impact factor = 2.051)*. Vol. 45, pp. 85-93, June 2013 (2 citations).
- J26. El-Basyouny, K. and El-Bassiouni, M. Y. "Modeling and Analyzing Traffic Safety Perceptions: An Application to the Speed Limit Reduction Pilot Project in Edmonton, Alberta" *Accident Analysis and Prevention*. Vol. 51, pp. 156-167, Mar. 2013 (1 citation).
- J27. **Islam, M. T., Hadiuzzaman, M., Qiu, Z., and El-Basyouny, K.** "Assessing Mobility and Safety Impacts of Variable Speed Limit Control Strategy" *Transportation Research Record: Journal of the Transportation Research Board*. Vol. 2364, pp. 1-11, Jan. 2013 (6 citations).
- J28. El-Basyouny, K., and Sayed, T. "Evaluating the Signal Head Upgrade Program in the City of Surrey" *Accident Analysis and Prevention*. Vol. 50, pp. 1236-1243, Jan. 2013 (1 citation).
- J29. El-Basyouny, K., and Sayed, T. "Depth-Based Hotspot Identification and Multivariate Ranking Using the Full Bayes Approach" *Accident Analysis and Prevention*. Vol. 50, pp. 1082-1089, Jan. 2013 (4 citations).
- J30. El-Basyouny, K. and Sayed, T. "Safety Performance Functions using Traffic Conflicts" *Safety Science*. Vol. 51, No. 1, pp. 160-164, Jan. 2013 (21 citations).
- 2012 J31. El-Basyouny, K. and Sayed, T. "Measuring Direct and Indirect Treatment Effects Using Safety Performance Intervention Functions" *Safety Science*. Vol. 50, No. 4, pp. 1125-1132, April 2012 (10 citations).
- J32. El-Basyouny, K. and Sayed, T. "Measuring Safety Treatment Effects Using Full Bayes Non-Linear Safety Performance Intervention Functions" *Accident Analysis and Prevention*. Vol. 45, pp. 152-163, Mar. 2012 (15 citations).
- J33. El-Basyouny, K., Sayed, T., El Esawey, M., and Pump, J. "Investigating Effect of Collision Aggregation on Safety Evaluations with Models of Multivariate Linear Intervention" *Transportation Research Record: Journal of the Transportation Research Board*. Vol. 2093, pp. 110-117, Jan. 2012 (no citations).
- J34. El-Basyouny, K. and Sayed, T. "Linear and Nonlinear Safety Intervention Models" *Transportation Research Record: Journal of the Transportation Research Board*. Vol. 2280, pp. 28-37, Jan. 2012 (5 citations).

- 2011 J35. El-Basyouny, K. and Sayed, T. “A Full Bayes Multivariate Intervention Model with Random Parameters among Matched Pairs for Before-After Safety Evaluation” *Accident Analysis and Prevention*. Vol. 43, No. 1, pp. 87-94, Jan. 2011 (22 citations).
- 2010 J36. El-Basyouny, K. and Sayed, T. “Safety Performance Functions with Measurement Errors in Traffic Volume” *Safety Science*. Vol. 48, No. 10, pp. 1339-1344, Dec. 2010 (10 citations).
- J37. El-Basyouny, K. and Sayed, T. “A Method to Account for Outliers in the Development of Accident Prediction Models” *Accident Analysis and Prevention*. Vol. 42, No. 4, pp. 1266-1272, July 2010 (9 citations).
- J38. El-Basyouny, K. and Sayed, T. “Application of Generalized Link Functions in Developing Accident Prediction Models” *Safety Science*. Vol. 48, No. 3, pp. 410-416, Mar. 2010 (8 citations).
- J39. El-Basyouny, K. and Sayed, T. “A Full Bayes Approach to Before-After Safety Evaluation with Matched Comparisons” *Transportation Research Record: Journal of the Transportation Research Board*. Vol. 2148, pp. 1-8, Jan. 2010 (9 citations).
- 2009 J40. El-Basyouny, K. and Sayed, T. “Accident Prediction Models with Random Corridor Parameters” *Accident Analysis and Prevention*. Vol. 41, No. 5, pp. 1118-1123, Sept 2009 (67 citations).
- J41. El-Basyouny, K. and Sayed, T. “Collision Prediction Models using Multivariate Poisson-lognormal Regression” *Accident Analysis and Prevention*. Vol. 41, No. 4, pp. 820-828, July 2009 (74 citations).
- J42. El-Basyouny, K. and Sayed, T. “Urban Arterial Accident Prediction Models with Spatial Effects” *Transportation Research Record: Journal of the Transportation Research Board*. Vol. 2102, pp. 27-33, 2009 (18 citations).
- 2007 J43. Mohamed, A.O. and *El-Bassiouni, K. M.* “Externalities of Fugitive Dust” *Environmental Monitoring and Assessment*. Vol. 130, No. 1-3, pp. 83–98, 2007 (2 citations).
- 2006 J44. El-Basyouny, K. and Sayed, T. “Comparison of Two Negative Binomial Regression Techniques in Developing Accident Prediction Models” *Transportation Research Record: Journal of the Transportation Research Board*. Vol. 1950, pp. 9-16, 2006 (36 citations).
- J45. Sayed, T., El-Basyouny, K., and Pump, J. “Safety Evaluation of the Stop Sign Infill Program” *Transportation Research Record: Journal of the Transportation Research Board*. Vol. 1953, pp. 201-210, 2006 (1 citation).

ARTICLES PUBLISHED IN REFEREED JOURNALS - SUMMARY

Journal	Year										Total
	2006	2007	2009	2010	2011	2012	2013	2014	2015	2016	
<i>Accident Analysis and Prevention</i>	-	-	2	1	1	1	3	2	1	3	14
<i>Transportation Research Record</i>	2	-	1	1	-	2	2	1	3	1	13
<i>Safety Science</i>	-	-	-	2	-	1	1	3	-	-	7
<i>Analytic Methods in Accident Research</i>	-	-	-	-	-	-	-	1	2	1	4
<i>Journal of Transp. Safety and Security</i>	-	-	-	-	-	-	-	-	1	1	2
<i>Transportation Research Part A</i>	-	-	-	-	-	-	-	-	-	1	1
<i>Case Studies on Transport Policy</i>	-	-	-	-	-	-	-	-	-	1	1
<i>Journal of Engineering Research</i>	-	-	-	-	-	-	-	1	-	-	1
<i>Journal of Safety Research</i>	-	-	-	-	-	-	1	-	-	-	1
<i>Environmental Monitoring and Assessment</i>	-	1	-	-	-	-	-	-	-	-	1
Total	2	1	3	4	1	4	7	8	7	8	45

REFEREED CONFERENCE PROCEEDINGS

- 2016 C1. **Tawfeek, M.H.**, Ke, Y., Gao, J., Zhang, H., El-Basyouny*, K., and Qiu, T. (2016) Connected Vehicle V2I Communication Application to Enhance Driver Awareness at Signalized Intersections. *Proceedings of the 11th International Transportation Specialty Conference part of the Canadian Society of Civil Engineers Annual Conference*, London, Canada, June 1-4, 2016.
- C2. **Tawfeek***, M.H., Ke, Y., Gao, J., Zhang, H., El-Basyouny, K., and Qiu, T. (2016) Connected Vehicle V2I Communication Application to Improve Driver Awareness at Signalized Intersections. *Proceedings of the Intelligent Transportation Systems Society of Canada's Annual Conference and Exhibition*, Calgary, Canada, May 1-4, 2016.
- 2015 C3. **Li*, R.**, El-Basyouny, K., and Kim, A. (2015) A City-Wide Safety Analysis of Mobile Speed Enforcement. *Proceedings of the 2015 Canadian Association of Road Safety Professionals (CARSP) Conference*, Ottawa, Canada, May 27-30, 2015.
- 2014 C4. **Wang, X.**, Kim*, A., and El-Basyouny*, K. (2014) Development of a Program Framework for Mobile Photo Radar Enforcement. *Proceedings of the 94th Annual Meeting of the Transportation Research Board*, Washington, USA, January 11-15, 2015.
- C5. **Gargoum*, S.** and El-Basyouny*, K. (2014) Factors Influencing Driver Compliance to Urban Speed Limits Using Mixed-Effect Logistic Regression. *Proceedings of the 94th Annual Meeting of the Transportation Research Board*, Washington, USA, January 11-15, 2015.
- C6. **Barua, S.**, El-Basyouny, K., and **Islam*, M.T.** (2014) Safety Performance Functions to Assess the Safety Risk of Urban Residential Collector Roads. *Proceedings of the 2014 TAC Conference & Exhibition*, Montréal, Canada, September 28 – October 1, 2014.
- C7. **Barua*, S.**, El-Basyouny, K., **Islam*, M.T.**, and **Gargoum, S.** (2014) Lessons Learned from Adopting the Highway Safety Manual to Assess the Safety Performance of Alternative Urban Complete Street Designs. *Proceedings of the 2014 TAC Conference & Exhibition*, Montréal, Canada, September 28 – October 1st, 2014.
- 2013 C8. El-Basyouny*, K., **Islam, M.T.**, and Shimko, G. (2013) Perceived and Actual Effects of Reducing Residential Speed Limits. *Proceedings of the 13th World Conference on Transport Research*, Rio de Janeiro, Brazil, July 14-18, 2013.
- C9. **Barua*, S.**, El-Basyouny*, K. and Ibrahim, S.E. (2013) Current and Future Frameworks to Manage Speeding Complaints. *Proceedings of the 23rd Canadian Multidisciplinary Road Safety Conference*, Montréal, Canada, May 26-29, 2013.
- C10. **Li*, R.**, Ibrahim, S.E., and El-Basyouny*, K. (2013) Developing a City-wide Speed Performance Indicator. *Proceedings of the 23rd Canadian Multidisciplinary Road Safety Conference*, Montréal, Canada, May 26-29, 2013.
- C11. Ibrahim*, S.E., El-Basyouny*, K. and **Islam, M.T.** (2013) Investigating the Impact of Reducing Residential Speed Limits in Edmonton: A Follow-up Analysis. *Proceedings of the 23rd Canadian Multidisciplinary Road Safety Conference*, Montréal, Canada, May 26-29, 2013.
- 2012 C12. **Tian, Z.**, Sayed, T., and El-Basyouny*, K. (2012) Investigating Speed and Accident Relationship at Urban Signalized Intersections using Accident Prediction Models. *Proceedings of the 9th International Transportation Specialty Conference part of the Canadian Society of Civil Engineers Annual Conference (125th Anniversary)*, Edmonton, Canada, June 6-9, 2012.
- C13. **Islam, M. T.**, Hadiuzzaman, M., Qiu*, Z., and El-Basyouny, K. (2012) An Investigation of the Relationship between Speed Characteristics and Collision Rate for Urban Freeway. *Proceedings of the 12th Chinese Overseas Transportation Association (COTA) International Conference of Transportation Professionals*, Beijing, China, August 3-6, 2012.
- C14. El-Basyouny*, K. and McDonald, S. (2012) Evaluating the Silverberry Action Plan to Reduce Vehicle Speed. *Proceedings of the 22nd Canadian Multidisciplinary Road Safety Conference*, Banff, Canada, June 10-13, 2012.
- C15. El-Basyouny*, K. and Sayed, T. (2012) Evaluating the Signal Head Upgrade Program in the City of Surrey. *Proceedings of the 22nd Canadian Multidisciplinary Road Safety Conference*, Banff, Canada, June 10-13, 2012.
- C16. El-Basyouny*, K. and Kwon, D. (2012) Assessing Time and Weather Effects on Collision Frequency by Severity in Edmonton Using Multivariate Safety Performance Functions. *Proceedings of the 91st Annual Meeting of the Transportation Research Board*, Washington, USA, January 22-26, 2012.

- 2011 C17. El-Basyouny*, K. and Sayed, T. (2011) Conflicts-Based Safety Performance Functions. *Proceedings of the 90th Annual Meeting of the Transportation Research Board*, Washington, USA, January 23-27, 2011.
- 2010 C18. El-Basyouny*, K., Cheng, D., Clark, L., and Sayed, T. (2010) Examining Multiple Dangerous Goods Routing Criteria within a GIS-based Framework in British Columbia. *Proceedings of the 89th Annual Meeting of the Transportation Research Board*, Washington, USA, January 10-14, 2010.
- 2009 C19. El-Basyouny*, K., Cheng, D., Clark, L., and Sayed, T. (2009) A Risk/Cost-Based Algorithm for the Routing of Dangerous Goods. *Proceedings of the Annual Conference & Exhibition of the Transportation Association of Canada*, Vancouver, Canada, October 18-21, 2009.

BOOKS

- 2012 B1. El-Basyouny, K. and Sayed, T. Statistical Analysis of Crash Data: Alternative Modeling Methods. *Lambert Academic Publishing GmbH & Co*, Saarbrücken, 2012.
-

V- SERVICE

CONFERENCE ACTIVITIES

- | | |
|------------|---|
| Sep., 2016 | ■ <u>Chair</u> of the <i>2nd International Conference on Transportation Innovation</i> , Edmonton, AB, Canada |
| Apr., 2016 | ■ <u>Steering committee member</u> of <i>Edmonton's 8th International Conference on Urban Traffic Safety</i> , Edmonton, AB, Canada |
| Jan., 2016 | ■ <u>Presenter</u> at the <i>95th Annual Meeting of Transportation Research Board</i> , Washington, DC, USA |
| Jan., 2015 | ■ <u>Presenter</u> at the <i>94th Annual Meeting of Transportation Research Board</i> , Washington, DC, USA |
| Apr., 2015 | ■ <u>Steering committee member and moderator</u> for <i>Edmonton's 7th International Conference on Urban Traffic Safety</i> , Edmonton, AB, Canada |
| Apr., 2015 | ■ Attended the <i>Western Canada Connected Vehicle Workshop</i> , Edmonton, AB, Canada |
| Oct., 2014 | ■ Attended the <i>International Conference on Transportation Innovation</i> , Edmonton, AB, Canada |
| Apr., 2014 | ■ <u>Steering committee member</u> of <i>Edmonton's 6th International Conference on Urban Traffic Safety</i> , Edmonton, AB, Canada |
| Jul., 2013 | ■ <u>Presenter</u> at the <i>13th World Conference on Transport Research</i> , Rio de Janeiro, Brazil |
| May, 2013 | ■ <u>Presenter</u> at the <i>23rd Canadian Multidisciplinary Road Safety Conference</i> , Montréal, QB, Canada |
| Apr., 2013 | ■ <u>Steering committee member and moderator</u> for <i>Edmonton's 5th International Conference on Urban Traffic Safety</i> , Edmonton, AB, Canada |
| Nov., 2012 | ■ <u>Steering committee member and moderator</u> for the <i>2012 Modular and Offsite Construction Summit</i> , Edmonton, Edmonton, AB |
| Jun., 2012 | ■ <u>Presenter</u> at the <i>22nd Canadian Multidisciplinary Road Safety Conference</i> , Banff, AB, Canada |
| Jun., 2012 | ■ Attended the <i>Canada-China Winter Transportation Symposium</i> , Edmonton, AB, Canada |
| Jun., 2012 | ■ <u>Presenter and technical session moderator</u> for the <i>9th International Transportation Specialty Conference</i> organized under the auspices of the <i>Transportation Division of the CSCE</i> , Edmonton, AB, Canada |
| Apr., 2012 | ■ <u>Steering committee member and moderator</u> for <i>Edmonton's 4th International Conference on Urban Traffic Safety</i> , Edmonton, AB, Canada |
| Jan., 2012 | ■ <u>Presenter</u> at the <i>91st Annual Meeting of Transportation Research Board</i> , Washington, DC, USA |
| Apr., 2011 | ■ <u>Co-chair and moderator</u> for <i>Edmonton's 3rd International Conference on Urban Traffic Safety</i> , Edmonton, AB, Canada |
| Jan., 2011 | ■ <u>Presenter</u> at the <i>90th Annual Meeting of Transportation Research Board</i> , Washington, DC, USA |
| Apr., 2010 | ■ Attended <i>Edmonton's 2nd International Conference on Urban Traffic Safety</i> , Edmonton, AB, Canada |
| Oct., 2009 | ■ <u>Presenter</u> at the <i>Transportation Association of Canada Annual Conference and Exhibition</i> , Vancouver, BC, Canada |
| Apr., 2009 | ■ <u>Presenter</u> at the <i>Institute of Transportation Engineering Quad Conference</i> , Vancouver, BC, Canada |
| Apr., 2009 | ■ <u>Presenter</u> at the <i>Road Safety Analysis Symposium</i> hosted by the Smart Transportation Applications & Research Laboratory (STAR Lab), the University of Washington, Seattle, WA, USA |
| Jan., 2009 | ■ <u>Presenter</u> at the <i>88th Annual Meeting of Transportation Research Board</i> , Washington, DC, USA |
| Jan., 2008 | ■ <u>Presenter</u> at the <i>87th Annual Meeting of Transportation Research Board</i> , Washington, DC, USA |

INVITED SPEAKER

- | | |
|------------|---|
| Jun., 2016 | <ul style="list-style-type: none"> ▪ <u>Invited speaker</u> at the <i>Capital Region Intersection Safety Partnership (CRISP) Monthly Meeting</i>, Edmonton, AB, Canada |
| Apr., 2016 | <ul style="list-style-type: none"> ▪ <u>Invited speaker</u> at <i>Edmonton's 8th International Conference on Urban Traffic Safety</i>, Edmonton, AB, Canada |
| Apr., 2015 | <ul style="list-style-type: none"> ▪ <u>Invited speaker</u> at <i>Edmonton's 7th International Conference on Urban Traffic Safety</i>, Edmonton, AB, Canada |
| Nov., 2014 | <ul style="list-style-type: none"> ▪ <u>Invited panel speaker</u> at <i>Edmonton's City Hall on Automated Traffic Enforcement for City Council – Transportation Subcommittee</i>, AB, Canada |
| Apr., 2014 | <ul style="list-style-type: none"> ▪ <u>Invited speaker</u> at the <i>2014 Sustainable Urban Development Workshop: Decoding Municipal Bylaws</i>, Edmonton, AB, Canada |
| Apr., 2013 | <ul style="list-style-type: none"> ▪ <u>Invited speaker</u> at <i>Edmonton's 5th International Conference on Urban Traffic Safety</i>, Edmonton, AB, Canada |
| Apr., 2012 | <ul style="list-style-type: none"> ▪ <u>Invited speaker</u> at <i>Edmonton's 4th International Conference on Urban Traffic Safety</i>, Edmonton, AB, Canada |
| Oct., 2012 | <ul style="list-style-type: none"> ▪ <u>Invited speaker</u> at <i>Transport Canada's Engaging the Academic and Research Communities Symposium</i>, Edmonton, AB, Canada |
| Mar., 2012 | <ul style="list-style-type: none"> ▪ <u>Invited speaker</u> at the <i>City of Edmonton and IBM Seminar on Developing Heterogeneous Models</i>, Edmonton, AB, Canada |
| Jan., 2012 | <ul style="list-style-type: none"> ▪ <u>Invited speaker</u> at the <i>Capital Region Intersection Safety Partnership (CRISP) Monthly Meeting</i>, Edmonton, AB, Canada |
| Nov., 2011 | <ul style="list-style-type: none"> ▪ <u>Invited speaker</u> at the <i>University of Alberta and Alberta Transportation Symposium</i>, Edmonton, AB, Canada |
| Oct., 2011 | <ul style="list-style-type: none"> ▪ <u>Invited speaker</u> at the <i>Regional Traffic Safety Consultant Monthly Meeting</i>, Edmonton, AB, Canada |
| Apr., 2011 | <ul style="list-style-type: none"> ▪ <u>Invited speaker</u> at <i>Edmonton 3rd International Conference on Urban Traffic Safety</i>, Edmonton, AB, Canada, |
| Apr., 2011 | <ul style="list-style-type: none"> ▪ <u>Invited speaker</u> at the <i>City of Calgary/Edmonton's 14th Annual Meeting</i>, Calgary, AB, Canada |

UNIVERSITY/DEPARTMENT SERVICES

- | | |
|--------------|---|
| 2016 | <ul style="list-style-type: none"> ▪ Member of the <i>Department Selection Committee</i> for a new Assistant Professor position in Transportation Engineering (interviewed two candidates) in the Department of Civil and Environmental Engineering at the University of Alberta |
| 2016 | <ul style="list-style-type: none"> ▪ Reviewed abstracts for the <i>Faculty of Engineering Graduate Research Symposium</i> at the University of Alberta |
| 2016 | <ul style="list-style-type: none"> ▪ Completed the <i>Employee Annual Privacy and Security Acknowledgment and Awareness Training</i> at the University of Alberta |
| 2016-present | <ul style="list-style-type: none"> ▪ Member of the <i>ACTIVE-AURORA Management Team Committee</i> in the Centre of Smart Transportation at the University of Alberta |
| 2015 | <ul style="list-style-type: none"> ▪ Prepared a lecture on Transportation Engineering and supervised a group of undergraduate students for <i>CIV E 240 Technical Communication</i> at the University of Alberta |
| 2012-present | <ul style="list-style-type: none"> ▪ Member of the <i>Academic Planning Committee</i> in the Department of Civil and Environmental Engineering at the University of Alberta |
| 2012-present | <ul style="list-style-type: none"> ▪ Member of the <i>Centre of Smart Transportation (CST) Steering Committee</i> at the University of Alberta |
| 2012-present | <ul style="list-style-type: none"> ▪ Reviewed several <i>final reports submitted by co-op undergraduate students</i>, providing recommendations for improvements and a general assessment of their work |

PROFESSIONAL SERVICES

- 2016-present ■ Member of the Transportation Division Council for the *Canadian Society of Civil Engineering*, London, ON
- 2015-present ■ Faculty Representative for the *Canadian Society of Civil Engineering Edmonton Section*, Edmonton, AB
- 2014-2017 ■ Young Member for the *Safety Analysis, Data, and Evaluation (ANB20)* at the TRB Annual Meeting, Washington, DC
- 2014-present ■ Young Member and Review Coordinator for the *Pedestrian Committee (ANF10)* at the TRB Annual Meeting, Washington, DC
- 2013-present ■ Member of the Editorial Advisory Board of the *Analytic Methods in Accident Research* journal published by Elsevier
- 2005 and 2008 ■ Organizer of the *Annual UBC ITE Industry Night and Student Presentation Competition* hosted by UBC ITE Student Chapter, Vancouver, BC

COMMUNITY SERVICES

- 2016 ■ Assisted in the establishment and co-ordinator of the *Canadian Society of Civil Engineering Edmonton Section Scholarship* (CAD 2,000 for top undergraduate student)
- 2015-present ■ Assisted in the establishment and co-ordinator of the *Bob Boutilier Engineering Leadership Award for Graduate and Undergraduate Students* (CAD 330 for each top graduate and undergraduate students)
- 2014-present ■ Co-ordinator of the *Memorial and Traffic Safety Fund* (~CAD 1,500 for top graduate student)
- 2014 ■ Member of the Advisory and Review Committee for *Edmonton's Independent Bicycle Route In-Service Safety Review Project* led by the City of Edmonton, Edmonton, AB
- 2013 ■ Member of the Oversight Panel for the *Complete Street Example Greenfield Cross Section Development* led by the City of Edmonton, Edmonton, AB
- 2013 ■ Assisted in the establishment of the *Capital Region Intersection Safety Partnership Student Paper Award and Urban Intersection Safety Scholarship*
- 2012-present ■ Subject matter expert on *Traffic Data Co-ordination and Integration Committees* (for the City of Edmonton) and *Engineering and Research Committees* (for the Provincial Office of Traffic Safety)

CONSULTING ACTIVITIES

- 2012-17 ■ Part of a research team to investigate the potential safety benefits and applicability of wider longitudinal pavement markings for standard applications in Canada. Project commissioned by the Transportation Association of Canada (TAC)
- 2011-13 ■ Part of a research team to evaluate the effectiveness of the Intersection Safety Camera program for the British Columbia provincial government. Project commissioned by Insurance Corporation of British Columbia

REFEREE/REVIEWER

- GRANTS ■ *Discovery Grants – Natural Sciences and Engineering Research Council, (DG NSERC)*
- *Collaborative Research and Development Grant – Natural Sciences and Engineering Research Council, (CRD NSERC)*
- *Mountain-Plains Consortium, (MPC) – regional university transportation center in federal region 8 which encompasses the states of Colorado, North Dakota, Montana, South Dakota, Utah, and Wyoming*
- JOURNALS ■ *Accident Analysis and Prevention, (AAP)*
- *Analytic Methods in Accident Research, (AMAR)*
- *Journal of Transportation Research Record, (TRR)*
- *Transportation Research Part A, (TR-A)*
- *Transportation Research Part C, (TR-C)*
- *Safety Science, (SAFETY)*
- *Traffic Injury Prevention, (TIP)*
- *Canadian Journal of Civil Engineering, (CJCE)*
- *Journal of Transportation and Statistics, (JofTS)*

- *Journal of Transportation Safety & Security, (JofTS)*
- *Journal of Transportation Engineering, (TEENG)*
- *Transportmetrica A: Transport Science, (TTRA)*
- *Journal of Advanced Transportation, (ATR)*
- *Canadian Society of Civil Engineers, (CSCE)*
- *European Journal of Transport and Infrastructure Research, (EJTIR)*
- *The 3rd International Conference on Road Safety and Simulation*
- *The 4th Fourth International Gulf Conference on Roads*

MEDIA COVERAGE

- Article by Connector ‘*Alberta Transportation partnering with the University of Alberta on cutting-edge research*’
- Article by Edmonton Sun ‘*Slowing down Edmonton's neighbourhood streets*’
- Radio Interview by Alberta at Noon about the ‘*new vehicle impoundment legislature*’
- Article by metronews ‘*Edmonton police chief Rod Knecht making renewed push to seize speeding vehicles*’
- Article by metronews ‘*Alberta needs more of a deterrent for excessive speeders: Edmonton Police Chief*’
- Blogpost in Transforming Edmonton ‘*Research shows photo radar makes roads safer*’
- Research featured in Edmonton’s Mayor Don Iverson blogpost on ‘*Safe Streets & Photo Radar*’
- Article by Global News ‘*The first problem with photo radar is that there is not enough: Dr. Francescutti*’
- Article by CBC ‘*Photo-radar secret revealed: zero tickets for minor speeding*’
- Article by Edmonton Journal ‘*Few Edmonton motorists show up to argue against photo radar*’
- Article by Metro Calgary ‘*Calgary Police warn racers of significant risk*’
- Article by Faculty of Engineering EnggNews ‘*Spotlight on Research*’
- Articles by Metro Edmonton ‘*Freeze frame on intersection speeders*’ and ‘*Drivers speeding by intersections*’
- Article by City Government News and Media ‘*City Sponsors UofA Traffic Safety Chair*’
- Article by Metro Edmonton ‘*Students examine traffic safety*’
- Article by the Gateway ‘*Newly appointed professor looks at safety on Edmonton’s streets*’
- Article by the Faculty of Engineering News ‘*Faculty hosts one-of-a-kind urban traffic safety research chair*’
- Article by Edmonton Journal ‘*Steering toward a fatality-free future on city's roadways*’

EXAMINATION COMMITTEES

INTERNAL (UOFA)

Name	Degree	Role	Group	Year
1. Yuwei Bie	MSc	Chair & Examiner	Transportation	2016
2. Avi Thiessen	MSc	Supervisor & Examiner	Transportation	2016
3. Lu Mao	MSc	Chair & Examiner	Transportation	2016
4. Md. Tazul Islam	PhD	Supervisor & Examiner	Transportation	2015
5. Laura Contini	MSc	Supervisor & Examiner	Transportation	2015
6. Xu Wang	PhD	Chair & Examiner	Transportation	2015
7. Yahui Ke	MSc	Chair & Examiner	Transportation	2015
8. Monjur Panna	MSc	Chair & Examiner	Construction	2015
9. Gang Liu	PhD	Chair & Examiner	Transportation	2015
10. Suliman Gargoum	MSc	Supervisor & Examiner	Transportation	2015
11. Lance Cooper	MSc	Examiner	Construction	2015
12. Qian Fu	MSc	Chair & Examiner	Transportation	2014
13. Ran Li	MSc	Supervisor & Examiner	Transportation	2014
14. Xiaobin Wang	MSc	Chair & Examiner	Transportation	2014
15. Sudip Barua	MSc	Supervisor & Examiner	Transportation	2014
16. Yuechuan Yin	PhD	Examiner	Transportation	2014
17. Lin Shao	MSc	Chair & Examiner	Transportation	2014
18. Mahsa Ghaznavi	MSc	Examiner	Construction	2013
19. Md. Hadiuzzaman	PhD	Chair & Examiner	Transportation	2013
20. Xu Han	MSc	Examiner	Transportation	2013
21. Md. Tazul Islam	PhD Candidacy	Supervisor & Examiner	Transportation	2013
22. Xu Wang	PhD Candidacy	Chair & Examiner	Transportation	2013
23. Gang Liu	PhD Candidacy	Chair & Examiner	Transportation	2013
24. Md. Ahsanul Karim	PhD Candidacy	Examiner	Transportation	2013
25. Yuechuan Yin	PhD Candidacy	Examiner	Transportation	2012
26. Nasser Farkhideh	MSc	Examiner	Transportation	2012
27. Jatinder Tiwana	MSc	Chair & Examiner	Transportation	2011

EXTERNAL

Name	Degree	Role	Group	Year
1. Adham Badran	MSc	External	McGill University	2014

SUPERVISORY COMMITTEE MEMBER (UOFA)

Name	Degree	Role	Group	Year
1. Samer Bu Mahmdan	PhD	Member	Construction	2016
2. Naomi Li	PhD	Supervisor & Member	Transportation	2015
3. Mostafa Tawfeek	PhD	Supervisor & Member	Transportation	2015
4. Jiangchen Li	PhD	Member	Transportation	2015

PARTICIPATION IN EXAMINATION COMMITTEES - SUMMARY

Committee Role	Departmental						External to University						
	Academic Year	2011	2012	2013	2014	2015	2016	2011	2012	2013	2014	2015	2016
Committee Chair	<i>1</i>	-	<i>3</i>	<i>3</i>	<i>4</i>	<i>2</i>	-	-	-	-	-	-	-
Candidacy Exam	-	<i>1</i>	<i>2</i>	-	-	-	-	-	-	-	-	-	-
Ph.D. Thesis Exam	-	-	-	<i>1</i>	<i>1</i>	-	-	-	-	-	-	-	-
Masters Exam	-	<i>1</i>	<i>2</i>	<i>2</i>	<i>3</i>	<i>1</i>	-	-	-	<i>1</i>	-	-	-
Total	<i>1</i>	<i>2</i>	<i>7</i>	<i>6</i>	<i>8</i>	<i>3</i>	-	-	-	<i>1</i>	-	-	-