

D.J. Dalmotas Consulting, Inc.

Curriculum Vitae

Aline Chouinard, BSc MSc PStat

PROFESSIONAL EXPERIENCE

- 2011- 2012 Senior Research Scientist,
Insurance Institute for Highway Safety
Arlington, VA
- 2007- 2011 Chief,
Evaluation and Data Systems Division,
Road Safety and Motor Vehicle Regulation Directorate,
Transport Canada, Ottawa, ON
- 2001- 2007 Senior Research Analyst,
Evaluation and Data System Division,
Road Safety and Motor Vehicle Regulation Directorate,
Transport Canada, Ottawa, ON
- 1982- 2001 Defence Scientist,
Centre for Operations Research and Analysis
Defence R& D Canada
Department of National Defense, Ottawa, Ontario

MAJOR ACCOMPLISHMENTS:

Completion of the study of the effectiveness of Electronic Stability Control systems for light duty vehicles in the Canadian context.

The re-design of the Canadian Seat Belt Survey to select randomly the survey sites. Canada was the first country in doing so.

Developed a child restraint survey methodology. The survey instrument is particularly useful.

Safety is our passion - analysis is our specialty

Conducted several studies in measuring data quality for the Canadian National Collision Database.

Studied the impact of the importation of 15 years old and older vehicles on Road Safety in Canada.

EDUCATION

- M.Sc.: Mathematics (Statistics), University of Ottawa, April 1983
- B.Sc. (Magna cum Laude): Mathematics, University of Ottawa, October 1980

COMMITTEE MEMBERSHIP:

Transportation Research Board:

- “Safe mobility of Older Persons” committee since 2012.
- “State-wide Transportation Data and Information Systems” committee since 2011 .
- “Statistical Methods” committee from 2003 to 2011.

Other organizations:

Chaired the National Collision Data Task Force of the Canadian Council of Motor Transport Administrators from 2007 to 2011.

Represented Transport Canada at meetings of the Quebec Road Safety Roundtable from 2008 to 2011.

MEMBERSHIPS in SCIENTIFIC and PROFESSIONAL SOCIETIES:

Canadian Association of Road Safety Professionals since 2001.

Member of the Statistical Society of Canada since 1982.

Accredited Professional Statistician (P.Stat.) by the Statistical Society of Canada.

HONOURS and BURSARIES:

- Director’ General Award, for outstanding contribution to the conduct of the First Canadian Rural Seat belt Survey, April 2003.
- Commendation letter from the Associate Deputy Minister of Defence (Personnel) on the development of the bilingual staffing ratio.
- Commendation letter from the Chair of the Ministerial Committee on Military Colleges on the analysis of officer career progression and retention by entry plan.
- National Sciences and Engineering Research Council, May 1981, grant to work on my thesis.
- National Sciences and Engineering Research Council, summer 1980, undergraduate summer research grant.
- Bursary of the School of Graduate Studies, Ottawa University, awarded twice in 1980 and 1981.
- Bursary of the University of Ottawa, Ottawa University, awarded twice in 1978 and 1979.

- Bursary from the newspaper Le Droit, for the best French-speaking student of the Faculty of Sciences and Engineering for the year 1979/1980.
- Dean's honour list, twice in 1979 and 1980.

TEACHING EXPERIENCE

Canadian Military College, January 2000, Statistics
 University of Ottawa, September 1999, Calculus
 University of Ottawa, Summer 1980, Linear Algebra
 University of Ottawa, September 1979, Introduction to Probability

ROAD SAFETY PUBLICATIONS

P. Prasad, D. Dalmotas, A. Chouinard, *Side Impact Regulatory Trends, Crash Environment and Injury Risk in the USA*; Paper No. 2015-22-0004; Stapp Car Crash Journal; Volume 59; pp. 91-112; November, 2015

A.Eichelberger, A. Chouinard, J. Jermakian, *Effects of Booster Seat Laws on Injury Risk among children in crashes*, 9th International Conference on the Protection of children in cars, Munich, Germany, December 2011.

A.Eichelberger, A. Chouinard, J. Jermakian, *Effects of Booster Seat Laws on Injury Risk among children in crashes*, Insurance Institute for Highway Safety, October 2011.

A.Chouinard et J.F. Lécuyer, *A Study of the Effectiveness of Electronic Stability Control in Canada*, Accident Analysis and Prevention, 2010, Vol. 43, pp. 451-460.

J.F. Lécuyer, A. Chouinard, *The Design of the Canadian Child Restraint Survey*, Proceedings of the 2010 Joint Statistical Meetings, American Statistical Association, Vancouver, Colombie-Britannique, August 2010.

A.Chouinard, J.F. L'Ecuyer, *Achieving quality of Canadian crash data*, 4th International Traffic Safety Data and Analysis Group, Seoul, Korea, September 2009.

J.F. L'Ecuyer, A. Chouinard, R. Hurley, *Measuring the Accuracy of the National Collision Database against In-Depth Collision Investigation Files*, Canadian Multidisciplinary Road Safety Conference XIX, Saskatoon, Saskatchewan, June 2009.

Fredette, M., Mambu, L.S., Chouinard, A., Bellavance, F., *Safety impacts due to the incompatibility of SUVs, minivans, and pickup trucks in two-vehicle collisions*, Accident Analysis and Prevention, 2008, Vol.40, pp.1987–1995.

P.Burns, J.F. L'Ecuyer, A. Chouinard, *Observed Driver Phone Use Rates in Canada*, Canadian Multidisciplinary Road Safety Conference XVIII, Whistler, British Columbia, June 2008.

J.F. L'Ecuyer, A. Chouinard, *Study on the Effect of Vehicle Age and the Importation of Vehicles 15 years and Older on the number of Fatalities, Serious Injuries and Collisions in Canada*, Canadian Multidisciplinary Road Safety Conference XVI, Winnipeg, Manitoba, June 2006.

A. Chouinard, *The Integration of Road Safety and Health: Setting the Stage*, Canadian Injury Prevention and Safety Promotion Conference, Halifax, November 2005

A.Chouinard, J.Kelley, *Measuring the risk of road crashes*, Joint Statistical Meetings, American Statistical Association, Minneapolis, August 2005.

J.F. L'Ecuyer, A. Chouinard, *Les effets des changements démographiques sur le nombre de collisions*, Canadian Multidisciplinary Road Safety Conference XV, Fredericton, Ontario, June 2005.

A. Chouinard, R. Hurley, *Towards the development of a National child restraint survey*, Canadian Multidisciplinary Road Safety Conference XV, Fredericton, Ontario, June 2005

A. Chouinard, *A new design for the Canadian National Seat Belt Survey*, Joint Statistical Meetings, American Statistical Association, Toronto, August 2004.

A. Chouinard, *The new design for the Canadian National Seat Belt Survey*, Canadian Multidisciplinary Road Safety Conference XIV, Ottawa, Ontario, June 2004

A. Chouinard, *The Integration of Road Safety and Health: Setting the Stage*, 7th World Conference on Injury Prevention and Safety Promotion, Vienna, Austria, June 2004

A. Chouinard and J. Kelley, *The Canadian Vehicle Survey*, Canadian Multidisciplinary Road Safety Conference XIII, Banff, Alberta, June 2003

A.Chouinard and J.Kelley, *Road Safety: Risk Analysis*, Canadian Multidisciplinary Road Safety Conference XIII, Banff, Alberta, June 2003

A. Chouinard, *A New Design for the Canadian Seat Belt Survey*, Safety on Road International Conference, Bahrain, October 2002.

Dainius Dalmotas, Aline Chouinard, Jean-Louis Comeau, Alan German, Glenn Robbins and Priya Prasad; *Examination of Crash Injury Risk as a Function of Occupant Demographics*; Stapp Car Crash Journal; Vol. 67; 2024