Georges Dionne Short curriculum vitae

Academic background

Postdoctoral fellow in economics, CORE, Belgium	1983
Postdoctoral fellow in finance and insurance, Wharton School, University	
of Pennsylvania	1980
Ph.D. in Economics, University of Montreal	1980
M.A. in Economics, University of Ottawa	1974
B.A.A. in administration, École des Hautes Études Commerciales of Montreal	1973

Career

The first part of my career, 1980 to 1996, was spent in the University of Montreal's Department of Economics. Since June 1st 1996, I have been the holder of the Risk Management Chair (which became the Canada Research Chair in Risk Management on January 1st 2004) and a professor in finance at HEC Montréal. From 1996 to 2004, I served as the director of the journal Assurances et gestion des risques – Insurance and Risk Management. From 1993 to 2004, I have been an associate researcher for the Chaire d'économie de l'assurance at Université de Paris X Nanterre.

Since June 1984, I am an associate researcher with the University of Montreal's Centre de recherche sur les transports now the Centre interuniversitaire de recherche sur les réseaux d'entreprise, la logistique et le transport (CIRRELT). I served as this Centre's assistant director for two academic years. My principal mandate was to prepare the FCAR-Centre application and the 1995-2000 academic program. During the opening years of this 21st century, I have been the scientific director of Montreal's Institut de finance mathématique (IFM²), the founder and codirector of HEC Montréal's Centre for research on e-finance, and the codirector of the Centre interuniversitaire sur le risque, les politiques économiques et l'emploi (CIRPÉE). I also set up HEC Montréal's Laboratoire de calcul en finance et assurance (LACFAS, now LACED) which received in 2009 from the CFI an additional \$5 million grant under the direction of Michèle Breton.

Since 2000, I obtained funding of over \$20 million for investment in the creation of a multidisciplinary research environment (combining finance, economy, and quantitative methods) at HEC Montréal, a research environment which, we are happy to say, measures up to that in all the other Canadian universities. I have been the Editor of *The Journal of Risk and Insurance*, the flagship journal of the American Risk and

Insurance Association, from 2007 to 2013. I have been member of the HEC Montréal board of Directors from 2009 to 2015, President of the Canadian Economic Association in 2012-2013, and President of the European Group of Risk and Insurance Economists (EGRIE) in 2013-2014. I am currently member of the scientific board of SCOR Corporate Foundation for Science (France), member of the Institut Louis Bachelier scientific board (France), member of the board of SCOR Canada and president of the Risk committee of that board.

My teaching and research activities are marked by a number of achievements:

<u>Books published</u>: Eight books were brought to press, two of which— *Contributions to Insurance Economics* and *Foundations of Insurance Economics: Readings in Economics and Finance*— (counting a total 1,250 pages) are heavily used worldwide in insurance programs, at the doctoral level.

I also published, at Kluwer, a reference book entitled *Handbook of Insurance*; it contains more than 30 chapters totalling about 1,000 pages and including contributions from the 40 best researchers in the field. This book received the Kulp Wright Award from the American Risk and Insurance Association, by which it was described as: ... an outstanding contribution to the literature of risk and insurance. It also received Les Echos award in France. This book has been translated in Chinese in 2008. A new and extended edition was published by Springer in December 2013. It also received the Kulp Wright Award in 2015.

On May 2017, I published the book *Gestion des risques: théories et applications*. This work represents my teaching at the master's level. The English version, *Corporate Risk Management: Theories and Applications*, was published in the Wiley Finance series in 2019.

Other publications: A dozen chapters in various books and more than 175 articles, many of them in prestigious scientific journals such as: Journal of Political Economy (2); International Economic Review (2); Review of Economic Studies (2), Review of Economics and Statistics (4); Journal of Risk and Uncertainty (5); Journal of Risk and Insurance (3), Journal of Econometrics (2), Management Science, Journal of Public Economics, Journal of the European Economic Association, Journal of Banking and Finance (6), Economic Theory, Journal of Financial and Quantitative Analysis, and Journal of Economic Theory.

<u>Teaching in other universities</u>: Courses for a diploma in advance studies (DEA) at the Université de Paris X Nanterre, from 1993 to 2005, and, for two years, at the Université de Toulouse.

Presentations: Almost 350 scientific international presentations.

<u>Director and codirector of research</u>: 7 postdoctoral trainees (including two from France, one from Belgium, and one from China); 31 doctoral candidates (including three in France) and more than 90 master's candidates (theses or reports).

Current supervisions: 1 postdoctoral trainee, 8 doctoral candidates and 8 master candidates.

At least 10 of the trainees or students supervised are now university professors (Seoul, Toronto, Amsterdam, Paris, Strasbourg, Halifax, Tunis, Casablanca, Montreal).

Grants: SSHRC of Canada since 1981 (about \$30,000 per year); supervision of an FCAR team for many years (about \$50,000 per year per team). SAAQ, MTQ, BAC, and Transport Canada research funds: grants and individual contracts received totalling more than \$2 million. In France, funding comes from the Fédération française des Sociétés d'Assurances (about \$40,000 per year from 1993 to 2005). From the Réseau RCM₂, about \$40,000 per year for five years. I have been a member of Canada's MITACS program on the application of mathematics to finance (\$40,000 per year for three years) and as such I worked for three years as an associate researcher at the University of Toronto's Fields Institute. In 2000, I obtained \$3.3 M from the Canadian Foundation for Innovation to create a laboratory for finance and insurance computations at HEC Montréal. In 2002, I obtained \$4.4 million from the SSHRCC and various private partners to create an e-finance research centre. In 2003, in addition to funding from the Canada Research Chair in Risk Management (\$200,000 annually for seven years), I obtained \$258,000 from the Canadian Fund for Innovation and the Quebec government to acquire the computer equipment needed to support this new Chair's scientific programming. In 2004, the Bank of Canada asked me to develop a new model for predicting corporate bankruptcies (\$15,000 for the first year). This new research program, designated macrofinance, consists in fine-tuning corporate microeconomics data for use in reorienting the Bank of Canada's intervention models. I have also obtained a five-year grant from CGI (\$375,000 over 5 years) in order to develop models for managing the risks associated with their principal clients. In 2011, the funding of the Canada Research Chair in Risk Management has been renewed for seven years, accompanied by a financial support of \$714,000 from FCI and Quebec Government to develop a high performance laboratory for computation in finance and assurance at CIRRELT. In 2018, the budget of the Canada Research Chair in Risk Management has been once again renewed, along with a financial contribution of \$1.9 billion from CFI and Quebec government for supporting new researches on market microstructure, including high frequency trading activities.

Other achievements:

- Member of the Organizing Committee of the World Congress of the Econometric Society, Montréal, 17-21 August, 2015.
- Board of Directors and President of the Risk Committee, SCOR Canada since May 2013.
- Board of Directors of HEC Montréal from June 2009 to June 2015.
- President of the European Group of Risk and Insurance Economists (EGRIE) in 2013.

- President of the Association canadienne d'économique/Canadian Economic Association in 2012.
- President of the Risk Theory Society, American Risk and Insurance Association in 2001.
- President of the Société canadienne de science économique, 1997-1998.
- Member of the editorial committee for nine international journals: Asia Pacific Journal of Risk and Insurance, Assurances et gestion des risques/Insurance and Risk Management, Economics Research International, Geneva Papers on Risk and Insurance: Issues and Practice, Journal of Risk and Uncertainty, L'Actualité économique, Risks, Risques – Les cahiers de l'assurance, The Geneva Risk and Insurance Review, Risks.
- Guest professor at the Wharton School for one year, 1986-1987, at the Université de Paris X Nanterre, 1993-1994, and at Georgia State University, March to May 2009.
- Guest researcher (1-to-3 month periods) in Toulouse (France), at CORE (Belgium), at CEPREMAP (France), at the Wharton School (United States), at CNRS (France), at École Polytechnique (France), at the University of Southern California (United States), at the Université Paris I Sorbonne, and at the École Normale Supérieure Paris-Saclay.
- Coresponsible of the study for la *Société de l'assurance automobile du Québec* that proposed the pricing of automobile insurance based on demerit points, 1982-1985.

Fields of research

- Risk management for private and social risks
- Microeconomic theory under uncertainty (financial contracts, insurance contracts)
- Asymmetrical information (moral hazard and adverse selection)
- Insurance and portfolio decision making
- High frequency trading
- Regulation in transportation and the environment

Prize awards - Merit of honors

American Risk and Insurance Best Article Award	2020
Fellow, Canadian Economics Association	2019
2017 best paper award in the Journal of Operational Risk	2018

John S. Bickley Founder's Award of the International Insurance Society	2017
Fellow, Institut Louis Bachelier, France	2016
Pierre-Laurin Award, HEC Montréal's top prize for research excellence	2016
Kulp-Wright Award for the Second edition of the Handbook of Insurance	2015
Best paper award from the Geneva Risk and Insurance Review	2015
Article selected for inclusion in the collection of 10 articles in the <i>Geneva Risk and Insurance Review</i> to mark its 40th anniversary	2015
Second best paper to the IFM ² 2012 Conference	2012
Marcel-Dagenais Award, Société canadienne de science économique	2012
Jean Guertin Award, HEC Montréal's top prize for teaching excellence in recognition of having introduced and developed the teaching of risk management in all HEC Montréal education programs.	2011
Innis-Gérin Medal from the Royal Society of Canada	2011
Research prize Pierre Laurin for the scientific contribution during the years 2006-2009, HEC Montréal.	2009
One of the 30 researchers chosen by SSHRC for celebrating 30 years of cultivating excellence in Canadian social sciences and humanities research	2008
Honor alumni, Faculty of arts and sciences, Université de Montréal	2008
Global Association of Risk Professionnals (GARP) Award for the best paper in risk management at the 2008 Financial Management Association European Conference (with O. Maalaoui and P. François).	2008
Honoris causa conferred by the Université d'Orléans.	2006
PRMIA Institute Award for the best paper in risk management at the 2006 Financial Management Association European Conference (with M. Pacurar and P. Duchesne).	2006
Bank of Canada Research Award for the best Canadian financial market paper at the 2006 <i>Northern Finance Association Conference</i> (with M. Pacurar and P. Duchesne).	2006
Research prize Pierre Laurin <i>ex æquo</i> for the scientific contribution during the years 2000-2003, HEC Montréal.	2003
Kulp-Wright award of the American Risk and Insurance Association for the <i>Handbook of Insurance</i> .	2002

Gérard-Parizeau award for exceptional contribution in the field of insurance and risk management.	2002
François-Albert Angers award (HEC Montréal) for the <i>Handbook of Insurance</i> .	2001
Risques-Les Échos Special award (France) for the Handbook of Insurance.	2001
President, Risk Theory Society, American Risk and Insurance Association.	2001
Elected member of The Royal Society of Canada.	2000
Marcel-Vincent award (Acfas – social sciences) for contribution in the field of insurance economics.	1999
Research prize Pierre Laurin for the scientific contribution during the years 1995-1998, HEC Montréal.	1998
Prize for the Clifford D. Spangler of the Fondation Alpha, Kappa, Psi (U.S.A.) for the paper Moral Hazard and State Dependent Utility Function, <i>Journal of Risk and Insurance</i> (1982).	1992
Award of the <i>Société canadienne de science économique</i> for the scientific contribution during the years 1984–1990.	1991
Fellow of the Huebner Foundation (Wharton School, University of Pennsylvania).	1986/ 1987
Prêt d'Honneur for postdoctoral studies.	1980

Public profile

- *h*-index equal to 51 on the Google Scholar site.
- Quotations in articles and books: More than 8,400 in Google Scholar; on average, more than 450 per year over the last five years.
- According to Google Scholar, among the <u>second top insurance economic researcher</u> and among the <u>25 top risk management researchers</u> in the world.
- According to RePEc, among the <u>25 top economists</u> in Canada (weighted rank author).
- According to RePEc, among the <u>15 top risk management researchers</u> in the world.
- Over the last ten years, my research documents have been downloaded more than 44,400 times via the American SSRN network.

- Consultant for the Insurance Institute of Canada for the preparation of the document Enterprise Risk Management (ERM) in the Insurance Sector (2009-2013).
- Consultant for the Insurance Bureau of Canada (1994) and in charge of the file on airline security for the Transportation Safety Board of Canada (1993).
- Fifth among the researchers most often quoted in the Geneva Papers on Risk and Insurance Theory.

Publications

Books

Dionne, G., Corporate Risk Management: Theories and Applications, John Wiley & Sons, 2019.

Dionne, G., Gestion des risques: théories et applications, Economica, France, 2017.

Dionne, G. (Ed.), *Handbook of Insurance*, *2nd Edition*, Springer, New York, 1126 pages, 2013. Paperback version, 2013, financed by Association de Genève pour l'étude du risque de l'assurance (The Geneva Association).

Dionne, G. (Ed.), *Handbook of Insurance*, Kluwer Academic Publishers, 1008 pages, 2000. Paperback version, 2001, financed by the Association de Genève pour l'étude du risque de l'assurance (Geneva Association). Translated into Chinese, 2008.

Dionne, G., Laberge-Nadeau, C. (Eds), *Automobile Insurance: Road Safety, New Drivers, Risks, Insurance Fraud and Regulation*, Kluwer Academic Publishers, 370 pages, 1999.

Dionne, G. (Ed.), Contributions to Insurance Economics, Kluwer Academic Publishers, 524 pages, 1992.

Dionne, G., Harrington, S. (Eds), Foundations of Insurance Economics – Readings in Economics and Finance, Kluwer Academic Publishers, 728 pages, 1992.

Dionne, G. (Ed.), *Incertain et information*, Vermette-Economica Editions Montreal-Paris, 289 pages, 1988.

Recent book chapters

Dionne G. and Harrington, S. Insurance and Insurance Markets. In M.J. Machina and W.K. Viscusi (Eds), *Handbook of the Economics of Risk and Uncertainty* volume 1, Elsevier North-Holland, 203-261, 2014.

Dionne, G., Fombaron, N., Doherty, N., Adverse Selection in Insurance Contracting, in G. Dionne (Ed.), *Handbook of Insurance*, 2nd Edition, Springer, New York, 231-280, 2013.

Dionne, G. The Empirical Measure of Information Problems with Emphasis on Insurance Fraud and Dynamic Data, in G. Dionne (Ed.), *Handbook of Insurance*, 2nd Edition, Springer, New York, 423-448, 2013.

Leading contributions

Dionne, G., Liu, Y., Effects of Insurance Incentives on Road Safety: Evidence from a Natural Experiment in China, forthcoming in *Scandinavian Journal of Economics*.

Dionne, G., Zhou, X., The Dynamics of Ex-ante Weighted Spread: An Empirical Analysis, *Quantitative Finance* 20, 4, 593-617, March 2020.

Angers, J.F., Desjardins, D., Dionne, G., Guertin, J.F., Modelling and Estimating Individual and Firm Effects with Count Panel Data, *Astin Bulletin* 48, 1049-1078, September 2018.

Dionne, G., Gueyie, J.P., Mnasri, M., Dynamic Corporate Risk Management: Motivations and Real Implications, *Journal of Banking and Finance* 95, 97-111, September 2018.

Mnasri, M., Dionne, G., Gueyie, J.P., The use of Nonlinear Hedging Strategies by US oil Producers: Motivations and Implications, *Energy Economics* 63, 348-364, March 2017.

Dionne, G., Saissi Hassani, S., Hidden Markov Regimes in Operational Loss Data: Application to the Recent Financial Crisis, *Journal of Operational Risk* 12, 1, 23-51, March 2017.

Bergerès, A.S., D'Astous, P., Dionne, G. Is There Any Dependence between Consumer Credit Line Utilization and Default Probability on a Term Loan? Evidence from Bank-Customer Data, *Journal of Empirical Finance* 33, 276-286, September 2015.

Dionne, G., La Haye, M., Bergerès, A.S., Does Asymmetric Information Affect the Premium in Mergers and Acquisitions?, *Canadian Journal of Economics* 48, 3, 819-852, August 2015.

Dionne, G., Pacurar, M., Zhou, X., Liquidity-adjusted Intraday Value at Risk modeling and risk management: An application to data from Deutsche Börse, *Journal of Banking and Finance* 59, 202-219, June 2015.

Maalaoui Chun, O., Dionne, G., François, P. Detecting Regime Shifts in Credit Spreads, *Journal of Financial and Quantitative Analysis* 49, 5/6, 1339-1364, October/December 2014.

Malekan, S., Dionne, G., Securitization and Optimal Retention under Moral Hazard, *Journal of Mathematical Economics* 55, 74-85, December 2014.

Dionne, G., Li, J., When Can Expected Utility Handle First-order Risk Aversion?, *Journal of Economic Theory* 154, 403-422, October 2014.

Maalaoui Chun, O., Dionne, G., François, P. Credit Spread Changes within Switching Regimes, *Journal of Banking and Finance* 49, 41-55, December 2014.

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Dionne, G., Li, J., The Impact of Prudence on Optimal Prevention Revisited, *Economics Letters* 113, 147-149, November 2011.

Dionne, G., Gauthier, G., Hammami, K., Maurice, M., Simonato, J.G., A Reduced Form Model of Default Spreads with Markov-Switching Macroeconomic Factors, *Journal of Banking and Finance* 35, 8, 1984-2000, August 2011.

Dionne, G., Pinquet, J., Maurice, M., Vanasse, C. Incentive Mechanisms for Safe Driving: A Comparative Analysis with Dynamic Data, *The Review of Economics and Statistics* 93, 1, 218-227, February 2011.

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Chakroun, O., Dionne, G., Dugas-Sampara, A., Empirical Evaluation of the Asset Allocation Puzzle, *Economics Letters* 100, 304-307, August 2008.

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Dionne, G., Caillaud, B., Jullien, B., Corporate Insurance with Optimal Financial Contracting, *Economic Theory* 16, 1, 77-105, 2000.

Dionne, G., Gagné, R., Vanasse, C., Measuring Technical Change and Productivity Growth with Varying Output Qualities and Incomplete Panel Data, *Journal of Econometrics* 87, 303-327, 1998.

Dionne, G., Gagné, R., Gagnon, F., Vanasse, C., Debt, Moral Hazard and Airline Safety: An Empirical Evidence, *Journal of Econometrics* 79, 379-402, 1997.

Dionne, G., Gollier, C., A Model of Comparative Statics for Changes in Stochastic Returns with Dependent Risky Assets, *Journal of Risk and Uncertainty* 13, 147-162, 1996.

Dionne, G., Artis, M., Guïllen, M., Count Data Models for a Credit Scoring System, *Journal of Empirical Finance* 3, 303-325, 1996.

Dionne, G., Doherty, N., Adverse Selection, Commitment and Renegotiation: Extension to and Evidence from Insurance Markets, *Journal of Political Economy* 102 (2), 209-235, 1994.

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Dionne, G., St-Michel, P., Workers' Compensation and Moral Hazard, *Review of Economics and Statistics* LXXXIII, 2, 236-244, 1991.

Dionne, G., Vanasse, C., A Generalization of Automobile Insurance Rating Models: The Negative Binomial Distribution with a Regression Component, *Astin Bulletin* 19, 2, 199-212, 1990.

Boyer, M., Dionne, G., An Empirical Analysis of Moral Hazard and Experience Rating, *Review of Economics and Statistics* LXXXI, 1, 128-134, 1989.

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Dionne, G., Eeckhoudt, L., Self-Insurance, Self-Protection and Increased Risk Aversion, *Economics Letters*, 39-43, 1985.

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2020-08-06