

CURRICULUM VITÆ¹

ÉRIC MARCHAND

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Education

- Université de Montréal 1983 B.Sc. Mathematics
- Université de Montréal 1986 M.Sc. Mathematics
- Université de Montréal 1990 Ph.D. Mathematics
(Ph.D. thesis entitled *Estimation de la moyenne multivariée avec contraintes* under the supervision of Narayan C. Giri)

Positions and appointments

- Chairperson, Département de mathématiques, Université de Sherbrooke, August 2020-
- Full Professor, Département de mathématiques, Université de Sherbrooke, 2004-
- Chairperson, Département de mathématiques, Université de Sherbrooke, 2004-2010 and April-July 2016
- Adjunct Professor, University of Manitoba, 2010-2013
- Adjunct Professor, University of New Brunswick, 2005-2009
- Full Professor, Department of mathematics and statistics, University of New Brunswick (Fredericton), 2002-2005
- Associate Professor, Department of mathematics and statistics, University of New Brunswick (Fredericton), 1999-2002
- Visiting Professor, École des Hautes Études Commerciales, Montreal, 1998-1999
- Visiting Professor, Concordia University, Montreal, 1997-1998
- Assistant Professor, Department of Mathematics and Statistics, University of New Brunswick (Saint John), 1990-1996

Other

- Director (joint) of *ALÉA* and of *Centre de consultation statistique*, 2019-2020
- Vice-President SPPUS (Syndicat des Professeurs et Professeurs de l'Université de Sherbrooke), 2019-2020
- Member of the *Board of Governors*, Université de Sherbrooke, 2017-2020.
- Director of the Statistics Laboratory of the CRM, June 2015-June 2019.
- Visiting researcher : UQÀM (summer of 1995), Concordia University (1996-1997, summer 1998), Université de Montréal (1996-1997, summers of 1999, 2000, 2001, 2002; 2003; fall of 2001), Université de Rouen (April 2000, October 2001, June 2003, October 2015, June 2018), McGill University (January-August 2003), Université Montpellier 2 (January-May 2012), Universität Eichstätt-Ingolstadt (June 2012), Center for International Research on the Japanese Economy, University of Tokyo (October 2012; January 2015), The Open University (October 2015), Laboratoire Jean Kuntzmann, Grenoble (January-June 2018).

1. January 2023

1 ACADEMIC EXPERIENCE and SUPERVISION

A. Publications related to teaching

- Michèle Boutin et Éric Marchand, *Préparation au calcul différentiel et intégral à l'université*, translation of *Preparing for University Calculus*, 2003.
- Jean-Pierre Bélisle et Éric Marchand, *Compléments de probabilité et statistique*, Electronic Manual, 345 pages, 1999.
- Éric Marchand, *Compléments de probabilité et statistique (exercices résolus)*, Electronic Manual, 175 pages, 1999.

B. External examination : theses, promotions and grant applications

- NSERC grant proposal review (2022, 2019, 2019, 2017, 2010, 2009, 2008, 2007, 2007, 2006, 2006)
- FQRNT (Québec) grant proposal review (2011, 2008, 2000)
- Tenure and promotion : external evaluations (Rutgers 2021 ; Université de Montréal 2020, Rutgers 2015 ; Acadia 2014 ; Yarmouk University-Jordan 2012 ; Laval 2010 ; Rutgers 2009 ; Purdue 2007 ; St. Mary's 2007)
- Ph.D. thesis, external examiner : McGill University, 2022 ; Universität Eichstätt-Ingolstadt, Germany, 2010 ; Montpellier I, France 2009 ; Luigi Bocconi, Italy, 2007 ; Rouen, France 1999. M.Sc. thesis, external, Univ. of Manitoba, 2009.

C. Students

Postdoctoral

- Othmane Kortbi, Université de Sherbrooke, September 2011-April 2012
- Djilali Ait Aoudia, Université de Sherbrooke, September 2008- August 2011 (co-supervisor François Perron)
- Mohammad Jafari Jozani, Université de Sherbrooke, January 2008 - December 2008 (co-supervisor François Perron)
- Yogesh Mani Tripathi, Université de Sherbrooke, December 2007 - August 2008

Ph.D.

- Mostafa Binaei, 2021-
- Samuel Valiquette, 2020-
- Pankaj Bhagwat, Université de Sherbrooke, 2019-
- Christine Allard, Université de Sherbrooke, 2018-
- Nasser Sadeghkhan, Université de Sherbrooke, 2013-2017.
- Aziz L'Moudden, Université de Sherbrooke, 2013-2018.
- Latifa Ben Hadj Slimene, Université de Sherbrooke, 2012- (incomplete)
- Iraj Yadegari, Université de Sherbrooke, 2012- 2017 (co-supervisor François Perron)
- Othmane Kortbi, Université de Sherbrooke, 2008 - 2011 (co-supervisor Dominique Fourdrier)
- Mohamed Tamazight, Université de Sherbrooke, 2006 - (incomplete)
- Amir T. Payandeh, University of New Brunswick, 2004-2007 (co-supervisor Dan Kucerovsky)
- N'deye Rokhaya Gueye, Université de Montréal, 2000-2004 (co-supervisor François Perron)
- Tianyong Long, University of New Brunswick, 1991-1997 (co-supervisor Rameshwar Gupta)

Visiting Ph.D.

- Younes Ommame, École Nationale des sciences appliquées de Marrakech, April-August 2015
- Marie Denis, Université Montpellier I, May-August 2009

- Liang Wang, Northwestern Polytechnical University, China 2009- 2011
- Djilali Ait Aoudia, Luigi Bocconi, Milan, December 2006 - August 2007
- Mohammad Jafari Jozani, Shahid Beheshti University, (Tehran), September 2005 - September 2006

M.Sc. or equivalent

- Aurélien Thiriet, Université de Sherbrooke, 2022 -
- Jean-François Sherazi, Université de Sherbrooke, 2020 - (co-supervisor Serge Charlebois)
- Amin Abed, Université de Sherbrooke, 2019 - 2021
- Courtney Drew, Université de Sherbrooke, 2019 - 2021
- Pankaj Bhagwat, University of Pune, 2018-2019
- Samuel Valiquette, Université de Sherbrooke, 2018 - 2020
- Sarra Abaoubida, Université de Sherbrooke, 2017-2018
- Fanny Rancourt, Université de Sherbrooke, 2017-2019
- Jean-Philippe Morissette, Université de Sherbrooke, 2017-2018
- Benjamin Heuclin, Université de Sherbrooke, 2016-2017
- Pier-Luc Audet, Université de Sherbrooke, 2016- incomplete
- Carl Lapointe, Université de Sherbrooke, 2015-2018
- Myriam Chabot, Université de Sherbrooke, 2013- 2016
- Asma Bahamyirou, Université de Sherbrooke, 2013- 2015
- Nasser Sadeghkhan, Université de Sherbrooke, 2012-2013 (moved on to Ph.D.)
- Latifa Ben Hadj Slimene, Université de Sherbrooke, 2010- 2012 (co-supervisor Djilali Ait Aoudia)
- Ehssan Ghashim, Université de Sherbrooke, 2010- 2013
- Jean-Philippe Turcotte, Université de Sherbrooke, 2010-2013 (co-supervisor Bill Strawderman)
- Becem Saidani, Université de Sherbrooke, 2010-2012 (co-supervisors François Dubeau and Maxime Descôteaux)
- Ruth Bruno, Université de Sherbrooke, 2007 - 2010
- Tarik Bahraoui, Université Montpellier II, 2007
- Keven Bosa, Université de Sherbrooke, 2005 - 2007 (co-supervisor Bill Strawderman)
- Aziz Lmoudden, Université de Sherbrooke, 2005 - 2008
- Yiping Dou, University of New Brunswick, 2000 - 2003
- N'deye Rokhaya Gueye, Université de Montréal, 1998-2000 (co-supervisor François Perron)

Undergraduate Mathis Rainville (2022, joint with Klaus Herrmann), Pankaj Bhagwat (2018), Asma Bahamyirou (2013), Jean-Philippe Turcotte (2010), Anis Loghmari (2010), Neena Gandhi (1994), Steven Ball (1994, 1993), Jeffrey Phillips (1993), Dawn Law (1995), William Watson (1993), Yuen-Hon Wan (1991, 1992), Nicole Madden (1992), Arthur de Wolfe, (1992), Paul Jones, (1992), Karl Messer (1992), Jennifer Calvin, (1991)

2 RESEARCH ACTIVITIES

A. Refereed Contributions

1. Bhagwat, P. & Marchand, É (2022). **Predictive density estimation with integrated L_1 loss**. Submitted.
2. Bhagwat, P. & Marchand, É (2022). **Bayesian inference and prediction for mean-mixtures of normal distributions**. Submitted. arXiv :2202.00629
3. Drew, C. & Marchand, É. (2021). **Estimating the suspected larger of two normal**

means. Submitted.

4. Jones, M. C. & Marchand, É. (2021). **A (non-central) chi-squared mixture of non-central chi-squareds is (non-central) chi-squared, and related results, corollaries and applications.** *Stat*, 10(1), e398. <https://doi.org/10.1002/sta4.39>
5. Hobbad, L., Marchand, É & Ouassou, I. (2021). **On shrinkage estimation of a spherically distribution for balanced loss functions.** *Journal of Multivariate Analysis*, **186**, 104794
6. LMoudden, A. & Marchand, É (2023). **Bayesian estimation and prediction for certain type of mixtures.** *Communications in Statistics : Theory and Methods*, **52**, 309–334.
7. Marchand, Éric, Rancourt, F. & Strawderman, W.E. (2021). **Minimax estimation of a restricted mean for a one-parameter exponential family.** *Journal of Statistical Planning and Inference*, **212**, 114–125
8. Marchand, Éric, & Strawderman, W.E. (2020). **A note on the non-stochastic ordering of some quadratic forms.** *Statistics & Probability Letters*, **163**, 108799
9. Marchand, Éric, & Strawderman, W.E. (2020). **On shrinkage estimation for balanced loss functions.** *Journal of Multivariate Analysis*, **175**, 104558.
10. Bhagwat, P. & Marchand, É (2020). **On a proper Bayes, but inadmissible estimator.** *The American Statistician*, **74**, 294-296.
11. Marchand, É. & Nicolieris, T. (2019). **On Bayes minimax estimators for a normal mean with an uncertain constraint.** *Communications in Statistics : Theory and Methods*, **50**, 1873–1883.
12. LMoudden, A. & Marchand, É (2019). **On Predictive Density Estimation under α -divergence Loss.** *Mathematical Methods of Statistics*, **28**, 127–143.
13. Fourdrinier, D., Marchand, É. & Strawderman, W.E. (2019). **On efficient prediction and predictive density estimation for spherically symmetric models.** *Journal of Multivariate Analysis*, **173**, 18-25.
14. Jones, M. C. & Marchand, É. (2019). **Multivariate discrete distributions via Sums and Shares.** *Journal of Multivariate Analysis*, **171**, 83-93.
15. Jones, M. C., Marchand, É. & Strawderman, W.E. (2019). **On an intriguing distributional identity.** *The American Statistician*, **73**, 16-21.
16. Marchand, É. & Sadeghkhan, N. (2018). **On predictive density estimation with additional information.** *Electronic Journal of Statistics*, **12**, 4209-4238.
17. Kubokawa, T., Marchand, É & Strawderman, W.E. (2017). **A unified approach to estimation of noncentrality parameters, the multiple correlation coefficient, and mixture models.** *Mathematical Methods of Statistics*, **26**, 134-148
18. Marchand, É., Perron, F. & Yadegari, I. (2017). **On estimating a bounded normal mean with applications to predictive density estimation.** *Electronic Journal of Statistics*, **11**, 2002-2025.
19. Kubokawa, T., Marchand, É & Strawderman, W.E. (2017). **On predictive density estimation for location families under integrated absolute value loss.** *Bernoulli*, **23**, 3197-3212.
20. L'Moudden, A., Marchand, É., Kortbi, O. & Strawderman, W.E. (2017). **On predictive density estimation for Gamma models with parametric constraints.** *Journal of Statistical Planning and Inference*, **185**, 56-68.
21. Ait Aoudia, D., Marchand, É. & Perron, F. (2016). **Counts of Bernoulli Success Strings in a Multivariate Framework.** *Statistics & Probability Letters*, **119**, 1-10.
22. Ghashim, E., Marchand, É. & Strawderman, W.E. (2016). **On a better lower bound for the frequentist probability of coverage of Bayesian credible intervals in restricted parameter spaces.** *Statistical Methodology*, **31**, 43-57.

23. Kubokawa, T., Marchand, É. & Strawderman, W.E. (2015). **On predictive density estimation for location families under integrated L_2 loss.** *Journal of Multivariate Analysis*, **142**, 57-74.
24. Bahamyirou, A. & Marchand, É. (2015). **On the discrepancy between Bayes credibility and frequentist probability of coverage.** *Statistics & Probability Letters*, **97**, 63-68.
25. Kubokawa, T., Marchand, É. & Strawderman, W.E. (2015). **On improved shrinkage estimators under concave loss.** *Statistics & Probability Letters*, **96**, 241-246.
26. Jafari Jozani, M., Leblanc, A. & Marchand, É (2014). **On continuous distribution functions, minimax and best invariant estimators, and integrated balanced loss functions.** *Canadian Journal of Statistics*, **42**, 470-486.
27. Ait Aoudia, D. & Marchand, É. (2014). **On the simple construction of a bivariate probability function with a common marginal.** *The American Statistician*, **68**, 170-173.
28. Ait Aoudia, D. Marchand, É., Perron, F. & Ben Hadj Slimene, L. (2014). **On runs, bivariate Poisson mixtures and distributions that arise in Bernoulli arrays.** *Electronic Communications in Probability*, **19**, no. 8, 1-12.
29. Jafari Jozani, M., Marchand, É. & Strawderman, W.E. (2014). **Estimation of a nonnegative location parameter with unknown scale.** *Annals of the Institute of Statistical Mathematics*, **66**, 811-832.
30. Kortbi, O. & Marchand, É. (2013). **Estimation of a multivariate normal mean with a bounded signal to noise ratio.** *Sankhyā A*, **75-A**, 277-299.
31. Marchand, É., & Strawderman, W.E. (2013). **On Bayesian credible sets, restricted parameter spaces and frequentist coverage,** *Electronic Journal of Statistics*, **7**, 1419-1431.
32. Kubokawa, T., Marchand, É., Strawderman, W.E., Turcotte, J.P. (2013). **Minimaxity in Predictive Density Estimation with Parametric Constraints.** *Journal of Multivariate Analysis*, **116**, 382-397.
33. Kortbi, O. & Marchand, É. (2012). **Truncated linear estimation of a bounded multivariate normal mean.** *Journal of Statistical Planning and Inference*, **142**, 2607-2618.
34. Marchand, É., Jafari Jozani, M. & Tripathi, Y. M. (2012). **On the inadmissibility of various estimators of normal quantiles and on applications to two-sample problems with additional information,** *Contemporary Developments in Bayesian analysis and Statistical Decision Theory : A Festschrift for William E. Strawderman*, Institute of Mathematical Statistics Volume Series, **8**, 104-116.
35. Marchand, É. & Strawderman, W.E. (2012). **A unified minimax result for restricted parameter spaces,** *Bernoulli*, **18**, 635-643.
36. Jafari Jozani, M., Marchand, É. & Parsian, A. (2012). **Bayesian and Robust Bayesian Analysis Under a General Class of Balanced Loss Functions,** *Statistical Papers*, **53**, 51-60.
37. Marchand, É. & Payandeh Najafabadi, A. T. (2011). **Bayesian improvements of a MRE estimator of a bounded location parameter,** *Electronic Journal of Statistics*, **5**, 1495-1502.
38. Fourdrinier, D., Marchand, É., Righi, A., & Strawderman, W.E. (2011). **On improved predictive density estimation with parametric constraints.** *Electronic Journal of Statistics*, **5**, 172-191.
39. Marchand, É. & Payandeh Najafabadi, A.T. (2010). **Improving on minimum risk equivariant and linear minimax estimators of bounded location parameters.** *REVSTAT-Statistical Journal*, **8**, 125-138.

40. Ait Aoudia, D. & Marchand, É. (2010). **On the number of runs for Bernoulli arrays**, *Journal of Applied Probability*, **47**, 367-377.
41. Fourdrinier, D. & Marchand, É. (2010). **On Bayes estimators with uniform priors on spheres and their comparative performance with maximum likelihood estimators for estimating bounded multivariate normal means**. *Journal of Multivariate Analysis*, **101**, 1390-1399.
42. Kucerovsky, D., Marchand, É., Payandeh Najafabadi, A.T. & Strawderman, W.E. (2009). **On the bayesianity of maximum likelihood estimators of restricted location parameters under absolute value error loss**. *Statistics & Decisions*, **27**, 145-168.
43. Ahmadi, J. Jafari Jozani, M., Marchand, É. & Parsian, A. (2009). **Prediction of k -records from a general class of distributions under balanced type loss functions**. *Metrika*, **70**, 19-33.
44. Marchand, É. & Perron, F. (2009). **Estimating a bounded parameter for symmetric distributions**. *Annals of the Institute of Statistical Mathematics*, **61**, 215-234.
45. Ahmadi, J. Jafari Jozani, M., Marchand, É. & Parsian, A. (2009). **Bayes estimation based on K -record data from a general class of distributions under balanced type loss functions**. *Journal of Statistical Planning and Inference*, **139**, 1180-1189.
46. Marchand, É., Strawderman, W.E., Bosa, K. & Lmoudden, A. (2008). **On the frequentist coverage of bayesian credible intervals for lower bounded means**. *Electronic Journal of Statistics*, **2**, 1028-1042.
47. Marchand, É., Ouassou, I., Payandeh, A. & Perron, F. (2007). **On the estimation of a restricted parameter for symmetric distributions**. *Journal of the Japanese Statistical Society*, **38**, 293-309.
48. Jafari Jozani, M. & Marchand, É. (2007). **Minimax estimation of constrained parametric functions for discrete families of distributions**. *Metrika*, **66**, 151-160.
49. Pham-Gia, T., Turkkan, N. & Marchand, É. (2006). **Density of the ratio of two normal random variables**. *Communications in Statistics : Theory and Methods*, **35**, 1569-1591.
50. Marchand, É. & Strawderman, W.E. (2006). **On the behaviour of Bayesian credible intervals for some restricted parameter space problems**. *Recent Developments in Nonparametric Inference and Probability : A Festschrift for Michael Woodroffe*, Institute of Mathematical Statistics Lecture Notes-Monograph Series, vol. 50, pp. 112-126.
51. Jafari Jozani, M., Marchand, É. & Parsian, A. (2006). **On estimation with weighted balanced-type loss function**. *Statistics & Probability Letters*, **76**, 773-780.
52. Marchand, É. et Parsian, A. (2006). **Minimax estimation of a bounded parameter of a discrete distribution**. *Statistics & Probability Letters*, **76**, 547-554.
53. Marchand, É. ; Perron, F. & Gueye, R. (2005). **Minimax estimation of a binomial proportion when $|p - 1/2|$ is bounded**. *Sankhya*, **67**, 526-537.
54. Kucerovsky, D., Marchand, É., Small, R.D. (2005). **On the equality in distribution of the random variables X and $g(X)$** . *International Journal of Pure and Applied Mathematics*, **23**, 93-114.
55. Marchand, É. & Strawderman, W.E. (2005). **On improving on the minimum risk equivariant estimator of a scale parameter under a lower-bound constraint**. *Journal of Statistical Planning and Inference*, **134**, 90-101.
56. Marchand, É. & Strawderman, W.E. (2005). **On improving on the minimum risk equivariant estimator of a location parameter which is constrained to an interval or a half-interval**. *Annals of the Institute of Statistical Mathematics*, **57**, 129-143.
57. Marchand, É. & Perron, F. (2005). **Improving on the mle of a bounded mean for spherical distributions**. *Journal of Multivariate Analysis*, **92**, 227-238.

58. Marchand, É. & Strawderman, W.E. (2004). **Estimation in restricted parameter spaces : A review**, *Festschrift for Herman Rubin*. Institute of Mathematical Statistics Lecture Notes-Monograph Series, pp. 21-44.
59. Joffe, A., Marchand, É., Perron, F. & Popadiuk, P. (2004). **On a particular sum of dependent Bernoulli and its relationship to a matching type problem**. *Journal of Theoretical Probability*, **17**, 285-292.
60. Fourdrinier, D., Marchand, É. & Strawderman, W.E. (2004). **On the inevitability of a paradox in shrinkage estimation for scale mixtures of normals**. *Journal of Statistical Planning and Inference*, **121**, 37-51.
61. Marchand, É. et Perron, F. (2002). **On the minimax estimator of a bounded normal mean**, *Statistics & Probability Letters*. **58**, 327-333.
62. Marchand, É. & Whitehead, J. (2002). **Statistical evaluation of compositional differences between upper Eocene impact ejecta layers**. *Mathematical Geology*, **34**, 5, 553-569.
63. Marchand, É. (2002). **On the comparison between standard draw and random knockout tournaments**. *Journal of the Royal Statistical Society D (The Statistician)*. **51**, 2, 169-178.
64. Marchand, É. & Perron, F. (2001). **Improving on the MLE of a bounded normal mean**. *Annals of Statistics*, **29**, 1066-1081
65. Marchand, É. (2001), **Point estimation of the coefficient of determination**. *Statistics and Decisions*, **19**, 137-154.
66. Marchand, É. et MacGibbon, B. (2000). **Minimax estimation of a constrained binomial proportion**. *Statistics and Decisions*, **18**, 129-167.
67. Marchand, É. et Lamontagne, É. (1999). **On a surprising covariance identity**. *International Journal of Mathematical Education in Science and Technology*, **30**, 142-146.
68. Marchand, É. (1998). **On the equality $E(X) = E[E(X|Y)]$ when $E[X|Y]$ is constant With probability one**. *Journal of Statistical Computation and Simulation*, **60**, 165-168.
69. Marchand, É. (1997). **On beta mixtures, the non-central Beta distribution, and the coefficient of determination**. *Journal of Statistical Computation and Simulation*, **59**, 161-178.
70. Scott, R., Fugler, D., Marchand, É. ; & Morrell, J. (1996). **Residential sources of lead in Saint John, New Brunswick**, CMHC Research report.
71. Marchand, É. (1996). **Computing the moments of a truncated noncentral Chi-square distribution**. *Journal of Statistical Computation and Simulation*, **54**, 387-391.
72. Marchand, É. (1995). **On the number e and increasing Runs**, *Mathematical Gazette*, **79**, 552-554.
73. Marchand, É. (1994). **On the estimation of the mean vector of a $N_p(\mu, \Sigma)$ population with $\mu'\Sigma^{-1}\mu$ known**. *Statistics & Probability Letters*, **21**, 69-75.
74. Marchand, É. (1993). **Estimation of a multivariate mean with Cconstraints on the norm**. *Canadian Journal of Statistics*, **21**, 359-366.
75. Marchand, É. et Giri, N.C. (1993). **James-Stein estimation with constraints on the norm**. *Communications in Statistics : Theory and Methods*, **22**, 2903-2924.
76. Giri, N.C. et Marchand, É. (1992). **Optimal Equivariant estimators in curved models**, *Statistics and Probability, Selection Statistica Canadiana*, **8**, Inst. Gaussianum, 37-57.

B. Talks since 2009 Université de Sherbrooke (club mathématique), November 2022 ; Congrès de l'AMQ (panelist), Sherbrooke, October 2022 ; Camp mathématique de l'AMQ, Sherbrooke, June

2022; Advances in Bayesian and Frequentist theory and methods with a celebration of William E. Strawderman's 80th birthday, April 2022; Université de Sherbrooke (club mathématique), November 2021; Statistics 2021 Canada (on-line, July 2021) SSC conference (on-line, June 2021); Université du Québec à Montréal (Janvier 2020); International Conference on Computational and Methodological Statistics (London, December 2019); University of Windsor (October 2019); Banff International Research Station (April 2019); Université de Montpellier (April 2018); Université Libre de Bruxelles (February 2018); Laboratoire Jean Kuntzmann, Grenoble (February 2018); Université de Sherbrooke (club mathématique), November 2017; Université de Sherbrooke (November 2017); Rutgers University (November 2017); Joint meetings IMS-ASA (Baltimore, August 2017); Cégep de Sherbrooke (April 2017); Sevilla-Ninth International Conference on Computational and Methodological Statistics (December 2016); McMaster University, (April 2016); University of Manitoba, (December 2015); GERAD, Montreal, (November 2015); The Open University, Milton Keynes, UK (October 2015); Université de Sherbrooke (Rencontres Sherbrooke-Montpellier, June 2015); University of Ottawa, April 2015; Cégep de Sherbrooke (March 2015); Conférences Denis Lebel (Public Lecture)-Sherbrooke, March 2015; University of Tokyo, January 2015; AARMS workshop on Statistical Modelling of Complexly Correlated Data with Applications; Mount Saint Vincent University, June 2014; SSC conference, Toronto, May 2014; University of Waterloo, April 2014; Marrakesh International Conference on Probability and Statistics, December 2013; Rutgers University, October 2013; Acadia University, October 2013; McGill University, April 2013; Université de Sherbrooke (club mathématique), September 2012; University of Tokyo, October 2012; Université de Sherbrooke (club mathématique), March 2012; Catholic University of Eichstaett-Ingolstadt, Eichstaett, Germany, June 2012, (two talks); Université Montpellier 2, France, April 2012, (two talks); UCL, Louvain-la-neuve, Belgium, April 2012; Université d'Aix-Marseille, France, March 2012; Centre de Recherche en Économie et Statistique, Paris, March 2012; *Statistics Canada 2011*, Montréal, July 2011; SSC conference, Wolfville, June 2011; Rutgers University, October 2010; Camp mathématique de l'AMQ, Bishop's University and Université de Sherbrooke, June 2009, 2010; University of Manitoba, April 2010; University of Ottawa, January 2010; University of Manitoba, June 2009; Université de Sherbrooke (club mathématique), October 2009; O'Bayes meeting (poster), Philadelphia, June 2009.

C. NSERC Discovery Grants (individual and amounts per year)

\$30000 for 2017-2023; \$21000 for 2012-2017; \$16000 for 2007-2012; \$12500 per year for 2003-2007; \$9450 for 1999-2003; \$6300 for 1997-1999; \$6000 for 1994-1997; \$9000 for 1991-1994.

D. Other Written Contributions

- *An interview with Bill Strawderman*. With Marty Wells. To be submitted to Statistical Science.
- *Prix CRM - SSC Radu Craiu (Toronto)- Bayesian inference for conditional copula models*. Bulletin of the CRM. Vol. 23, No. 1 (2017)
- *Prix CRM - SSC Matías Salibián-Barrera (UBC)- La détection de courbes aberrantes*. Bulletin of the CRM. Vol. 22, No. 1 (2016)
- *YING YAN Winner of the 2014 Pierre Robillard Award / Récipiendaire du prix Pierre-Robillard 2014*. SSC Liaison, Vol. 29, No. 2 (2015)

3 PROFESSIONAL ACTIVITIES (selected)

- Incoming President (2020-2021), President (2021-2022), Past President (2022-2023) Probability section of the SSC.
- Member of the organizing committee and Participant for *New and Evolving Roles of Shrinkage in Large-Scale Prediction and Inference*, BIRS, April 2019.

- Advisory board member for STATQAM, 2020-
- Advisory board member for CANSSI-Québec, 2019-
- Associate Editor for the *Journal of Multivariate Analysis*, 2016-
- Contribution for the AMS Reviews, May 2017-
- Member of Evaluation Group 14 (Mathematics and Statistics), Natural Sciences and Engineering Research Council of Canada (NSERC) ; 2013, 2014, 2015, 2019. Chair in Statistics (2014). Co-chair in Statistics (2013, 2015).
- SSC Awards committee, 2019 - 2021.
- SSC Pierre-Robillard Committee, 2012, 2013, 2014. Chair 2014.
- SSC Research Committee since July 2015. Chair 2016-2017.
- Co-editor (with Dominique Fourdrinier and Andrew Rukhin) of *Contemporary Developments in Bayesian analysis and Statistical Decision Theory : A Festschrift for William E. Strawderman*, Institute of Mathematical Statistics Collections Series, vol. 8, 2012.
- Member of the organizing committee for *International Workshop on the Perspectives on High-dimensional Data Analysis*, McGill, 2012.
- Member of the FQRNT grant selection committee (Applied Mathematics), 2010.
- SSC Regional Representative, 2002 - 2006.
- Bilingualism committee of the SSC, 2009 - 2012.
- Canadian Journal of Statistics prize (committee member), 2008 and 2009.
- Lise Manchester prize of the SSC (committee member), 2008
- Associate Editor for Journal de la SFdS, 2014-
- Associate Editor for ISRN Probability and Statistics, 2012- 2013.
- Associate editor of the Annales des sciences mathématiques du Québec, 2009 - 2013.
- Associate editor of JIRSS (Journal of the Iranian Statistical Association), 2002 - 2010.
- Organizer of Scientific meetings of Statistics Laboratory of the CRM, 2018, 2017, 2016. Co-organizer of the colloquium *Méthodologie statistique contemporaine*, Sherbrooke. 2010, 2015, 2019. Local arrangements organizer for *MCMC methods : theory and applications*, meeting of the Statistics laboratory of the CRM, 2008. Co-organizer of the *Colloque de biostatistique : Sherbrooke-Montpellier*, 2006. Organizer of scientific sessions : SSC (2023, 2020, 2014, 2011, 2007, 2005) ; *Statistics 2011*, Concordia University.
- Member of the executive of the ISM, 2004 - 2008.
- Member of the CRM. Member of the Statistics Laboratory of the CRM since 2005.
- Organizer and co-organizer of the Séminaire de statistique, Université de Sherbrooke, 2005-
- Carl Herz prize : committee member, 2008 ; 2015.
- Invited participant : *Banff International Research Station (BIRS) workshop Statistical Inference Problems in High energy physics and astronomy*, July 2006.
- Provincial Coordinator for the MMC (Maritime Math Competition) ; 2001, 2002 and 2004.
- Contributor to APICS mathematics competitions (1990, 1999)
- AARMS Representative 2000-2002.
- Member of GERAD (Groupe d'études et de recherche en analyse des décisions), 1998-1999.
- Member of the Applied Statistics Centre, University of New Brunswick, Fredericton, 1999-2004.
- Various statistical consulting activities, University of New Brunswick, Saint John, 1990-1996..
- New Brunswick Region 2 Hospital Corporation, Research Review Committee Member, 1993-1996.
- Refereeing since 2013. A manuscript for Springer. More than 60 papers for journals including *American Statistician*, *ASMQ*, *Annals of Statistics*, *AIMS*, *Australian and New Zealand Journal of Statistics*, *Bayesian Analysis*, *Bernoulli*, *Bulletin of the Association Mathématique du Québec*, *Communications in Statistics*, *Computational Statistics*, *CSDA*, *Hacettepe Journal of Mathematics and Statistics*, *IMS Collections-Lecture Notes*, *Journal of Applied Statistics*, *JASA*, *Journal of Multivariate Analysis*, *Journal of Nonparametric Statistics*, *Journal of Quantitative Analysis in Sport*, *Journal of Statistical Planning and Inference*, *Journal of the*

Korean Statistical Society, Journal of the Iranian Statistical Society, Mathematical Methods in Statistics, Metrika, Metron, Modern Stochastics : Theory and Applications, Operations Research, PAMS, Revue canadienne de statistique, Revue internationale des technologies en pédagogie universitaire, Sankhyā, Scandinavian Journal of Statistics, STAT, Statistics, Statistica Neerlandica, Statistical Science, Statistics & Decisions, Statistics & Probability Letters, Statistica Sinica, Statistical Papers, Statistical Methodology, Test.