

CURRICULUM VITÆ

ÉRIC MARCHAND

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Education

- Université de Montréal 1980-1983 B.Sc. Mathematics
- Université de Montréal 1983-1986 M.Sc. Mathematics
- Université de Montréal 1986-1990 Ph.D. Mathematics (Statistics Option)

Positions and appointments

- 2004 to present Full Professor, Département de mathématiques, Université de Sherbrooke
- 2004-2008 Chairman, Département de mathématiques, Université de Sherbrooke
- 2005 to present Adjunct Professor, University of New Brunswick
- 2002-2005 Full Professor, Department of mathematics and statistics, University of New Brunswick (Fredericton)
- 1999-2002 Associate Professor, Department of mathematics and statistics, University of New Brunswick (Fredericton)
- 1998-1999 Visiting Professor, École des Hautes Études Commerciales, Montreal
- 1997-1998, Visiting Professor Concordia University
- 1990-1996 Assistant Professor, Department of mathematics and statistics, University of New Brunswick (Saint John)

Other

- Visiting scientist: Concordia University (1996-1997), Université de Montréal (1996-1997), McGill University (2003)
- 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.
- I was equally visiting scientist at UQÀM (summer of 1995), Concordia University (summer of 1998), McGill University (summer of 2003), Université de Montréal (summers of 1999, 2000, 2001, 2002; 2003; fall of 2001), and Université de Rouen (April 2000).

1 ACADEMIC EXPERIENCE

A. Courses Taught at the University of New Brunswick (1990-1996; 1999-2004)

Introduction to Statistical Decision Theory; Topics in Advanced Statistical Inference; Statistics for Biology I; Statistics in Biology II; Stochastic Processes; Statistical Computing and Simulation; Experimental Design in Biology and Forestry (graduate); Statistics for engineers; Statistics for Nursing I; Survey Sampling; Calculus for Business; Finite Mathematics for Business Students; Introduction to Probability and Statistics I; Introduction to Probability and Statistics II; Probability and Mathematical Statistics I; Probability and Mathematical Statistics II; Introduction to Applied Statistics; Regression Analysis; Experimental Design; Statistics for Kinesiology II; Mathematical Statistics (graduate); Data analysis project course.

B. Courses Taught at l'Université de Montréal, Concordia, HEC, and Sherbrooke

1989-90 (Université de Montréal) Statistique pour géologues; Introduction à la statistique.

1996-98 (Concordia University) Mathematical Statistics; Probability; Sample Surveys; Sample Surveys (graduate); Mathematical Statistics; Applied Probability; Probability II (Stochastic Processes).

1998-99 (École des Hautes Études Commerciales) Probabilité et statistique; Statistique descriptives; Probabilité et statistique; Coordinator of the course 1-620-96 (12 sections and 760 students).

2005- (Université de Sherbrooke) Probabilités, Processus stochastiques, Statistique mathématique

C. 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 (see [www.math.mun.ca // apics](http://www.math.mun.ca/apics))
- 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.

D. External examination : theses, promotions and grant applications

- NSERC grant proposal review (2009, 2008, 2007, 2007, 2006, 2006)
- FQRNT (Québec) grant proposal review (2008, 2000)
- Tenure and promotion: external evaluations (Rutgers 2009, Purdue, 2007, St. Mary's, 2007)
- Ph.D. thesis external examiner *Reinforced Urn Processes and Binary Trees*, Djilali Ait Aoudia, Université Luigi Bocconi, Milan, 2007
- Ph.D. thesis external examiner *Estimation sous contraintes pour des lois à symétrie sphérique*, Idir Ouassou, Université de Rouen, 1999.

E. Graduate and postdoctoral students

- Marie Denis, visiting Ph.D., Université Montpellier I, 2009
- Djilali Ait Aoudia, postdoctoral, Université de Sherbrooke, september 2008- august 2009
- Mohammad Jafari Jozani, postdoctoral, Université de Sherbrooke, january 2008 - december 2008
- Yogesh Mani Tripathi, postdoctoral, Université de Sherbrooke, december 2007 - august 2008
- Othmane Kortbi, Ph.D., Université de Sherbrooke, 2008 - (co-supervisor Dominique Fourdrier)
- Nacer Boulahbal, Ph.D., Université de Sherbrooke, 2008 -
- Ruth Bruno, M.Sc. Université de Sherbrooke, 2007 -
- Tarik Bahraoui, visiting M.Sc., Université Montpellier II, 2007
- Djilali Ait Aoudia, visiting Ph.D., Luigi Bocconi, Milan, december 2006 - august 2007
- Mohammad Jafari Jozani, visiting Ph.D., Shahid Beheshti University, (Tehran), september 2005 - september 2006
- Mohamed Tamazight, Ph.D., Université de Sherbrooke, 2006 -
- Keven Bosa, M.Sc., Université de Sherbrooke, 2005 - 2007
- Aziz Lmoudden, M.Sc., Université de Sherbrooke, 2005 - 2008.
- Amir Piyandeh, Ph.D., University of New Brunswick, 2004-2007 (co-supervisor Dan Kucevsky)
- Yiping Dou, M.Sc., University of New Brunswick, 2000 - 2003
- N'deye Rokhaya Gueye, Ph.D., Université de Montréal, 2000-2004 (co-supervisor François Perron)
- N'deye Rokhaya Gueye, M.Sc., Université de Montréal, 1998-2000 (co-supervisor François Perron)
- Tianyong Long, Ph.D., University of New Brunswick, 1991-1997 (co-supervisor Rameshwar Gupta)

F. Graduate theses committees

- Ph.D. Djilali Ait Aoudia (2007, Luigi Bocconi), Amir Payandeh (2007, UNB), N'deye Rokhaya Gueye (2004, Université de Montréal), Fauzi Ali (2003, UNB, computer science), Tianyong Long (1997, UNB)
- M.Sc., M.A. Éric Tsala (2009, Sherbrooke), Milana Karaganis (2009, Manitoba), Aziz Lmoudden, (2008, Sherbrooke), Keven Bosa (2007, Sherbrooke), Renato Dedic (2007, Sherbrooke), Lise Auffrey (2003, UNB, biology), Yiping Dou (2003, UNB), N'deye Rokhaya Gueye (1999, Université de Montréal), Caroline Ward (1997, Concordia), Claire Goggin (1994, UNB, psychology), Tracy Little (1994, UNB, psychology)

G. Undergraduate Data Analysis Projects Supervised

Dawn Law (1995), William Watson (1993), Arthur de Wolfe, (1992), Paul Jones, (1992), Karl Messer (1992), Jennifer Calvin, (1991)

H. Undergraduate students supervised

Neena Gandhi (1994), Steven Ball (1994), Jeffrey Phillips (1993), Steven Ball (1993), Yuen-Hon Wan (1992), Nicole Madden (1992), Yuen-Hon Wan (1991)

2 RESEARCH ACTIVITIES

A. Refereed Contributions

- (34) Marchand, Éric; Strawderman, William; Bosa, Keven & Lmoudden, Aziz (2008). On the Frequentist Coverage of Bayesian Credible Intervals for Lower Bounded Means, *Electronic Journal of Statistics*, **2**, 1028-1042.
- (33) Ahmadi, Jafar; Jafari Jozani, Mohammad; Marchand, Éric & Parsian, Ahmad (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.
- (32) Ahmadi, Jafar; Jafari Jozani, Mohammad; Marchand, Éric & Parsian, Ahmad (2009). *Prediction of k-records from a general class of distributions under balanced type loss functions*, *Metrika*, **70**, 19-33.
- (31) Marchand, Éric; Ouassou, Idir; Payandeh Amir T.; Perron, François (2007). *On the estimation of a restricted location parameter for symmetric distributions*, *Journal of the Japanese Statistical Society*, **38**, 293-309.
- (30) Marchand, Éric & Perron, F. (2009). *Estimating a bounded parameter for symmetric distributions*, *Annals of the Institute of Statistical Mathematics*, **61**, 215-234.
- (29) Jafari Jozani, Mohammad & Marchand, Éric (2007). *Minimax estimation of constrained parametric functions for discrete families of distributions*, *Metrika*, **66**, 151-160.
- (28) Marchand, Éric & William E. Strawderman (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, pp. 112-126.
- (27) Pham-Gia, Thu; Turkkan, Noyan & Marchand, Éric (2006). *Density of the ratio of two normal random variables*, *Communications in Statistics: Theory and Methods*, **35**, 1569-1591.
- (26) Jafari Jozani, Mohammad; Marchand, Éric & Parsian, Ahmad (2006). *On estimation with weighted balanced-type loss function*, *Statistics & Probability Letters*, **76**, 773-780.
- (25) Marchand, Éric & Parsian, Ahmad (2006). *Minimax estimation of a bounded parameter of a discrete distribution*, *Statistics & Probability Letters*, **76**, 547-554.
- (24) Marchand, Éric; Perron, François & Gueye, Rokhaya (2005). *Minimax Estimation of a Binomial Proportion when $|p - 1/2|$ is Bounded*, *Sankhyā*, **67**, 526-537.
- (23) Kucerovsky, Daniel, Marchand, Éric, Small, Robert 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.
- (22) Marchand, Éric & William E. Strawderman (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.
- (21) Marchand, Éric & William E. Strawderman (2004). *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.
- (20) Marchand, Éric & William E. Strawderman (2004). *Estimation in Restricted Parameter Spaces: A Review*, *Festschrift for Herman Rubin*, Institute of Mathematical Statistics Lecture Notes-Monograph Series, pp. 21-44.
- (19) Marchand, Éric & Perron, François (2004). *Improving on the mle of a bounded mean for spherical distributions*, *Journal of Multivariate Analysis*, **92**, 227-238.

- (18) Joffe, Anatole; Marchand, Éric; Perron, François; and Popadiuk, Paul (2004). **On a particular sum of dependent Bernoulli and its relationship to a matching type problem**, *Journal of Theoretical Probability*, **17**, 285-292.
- (17) Fourdrinier, Dominique; Marchand, Éric; & Strawderman, William 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.
- (16) Marchand, Éric & Perron, François (2002). **On the Minimax Estimator of a Bounded Normal Mean**, *Statistics & Probability Letters*, **58**, 327-333.
- (15) Marchand, Éric & Whitehead, James (2002). **Statistical Evaluation of Compositional Differences between Upper Eocene Impact Ejecta Layers**, *Mathematical Geology*, **34**, 5, 553-569.
- (14) Marchand, Éric (2002). **On the Comparison Between Standard Draw and Random Knockout Tournaments**, *Journal of the Royal Statistical Society D (The Statistician)*, **51**, 2, 169-178.
- (13) Marchand, Éric & Perron, François (2001). **Improving on the MLE of a Bounded Normal Mean**, *Annals of Statistics*, **29**, 1066-1081
- (12) Marchand, Éric (2001), **Point Estimation of the Coefficient of Determination**, *Statistics and Decisions*, **19**, 137-154.
- (11) Marchand, Éric & MacGibbon, Brenda (2000). **Minimax Estimation of a Constrained Binomial Proportion**, *Statistics and Decisions*, **18**, 129-167.
- (10) Marchand, Éric & Lamontagne, Érick (1999). **On a Surprising Covariance Identity**. *International Journal of Mathematical Education in Science and Technology*, **30**, 142-146.
- (9) Marchand, Éric (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.
- (8) Marchand, Éric (1997). **On Beta Mixtures, the Non-Central Beta Distribution, and the Coefficient of Determination**. *Journal of Statistical Computation and Simulation*, **59**, 161-178.
- (7) Scott, Richard; Fugler, Donald; Marchand, Éric; and Morrell, Judy (1996). **Residential Sources of Lead in Saint John, New Brunswick**, Rapport de recherche: Société Canadienne d'Hypothèque et du Logement.
- (6) Marchand, Éric (1996). **Computing the Moments of a Truncated Noncentral Chi-Square Distribution**. *Journal of Statistical Computation and Simulation*, **54**, 387-391.
- (5) Marchand, Éric (1995). **On the Number e and Increasing Runs**, *Mathematical Gazette*, **79**, 552-554.
- (4) Marchand, Éric (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.
- (3) Marchand, Éric (1993). **Estimation of a Multivariate Mean with Constraints on the Norm**, *Canadian Journal of Statistics*, **21**, 359-366.
- (2) Marchand, Éric & Giri, Narayan C. (1993). **James-Stein Estimation with Constraints on the Norm**, *Communications in Statistics: Theory and Methods*, **22**, 2903-2924.
- (1) Giri, Narayan C. & Marchand, Éric (1992). **Optimal Equivariant Estimators in Curved Models**, *Statistics and Probability, Selection Statistica Canadiana*, **8**, Inst. Gaussianum, 37-57.

B. Non-Refereed or Unpublished Written Contributions (selected)

- Jafari Jozani, Mohammad & Marchand, Éric (2005). **An admissible minimax estimator of a bounded parameter in the family of transformed chi-square distributions under a weighted balanced loss function**, Actes de colloque de l'ISI, Sydney, Australie.
- Marchand, Éric (1998). **On the Covariance of the Integer and Fractional Parts of a Sum of Uniforms**, ASA Proceedings of the Section on Statistical Education, 155-160.

- Marchand, Éric (1996). *Personal Communication*, cited in Criminology, volume 34, page 581.
- Marchand, Éric (2000). *Personal Communication*, cited in Earth and Planetary Letters, no 181, page 487.
- Marchand, Éric (1994). *On Estimating of the Mean of a $N_p(\mu, \Sigma)$ Population with $\mu' \Sigma^{-1} \mu$ known*, APICS Conference Proceedings, 6 pages.
- Marchand, Éric; Singh, Harshinder; Gupta, Rameshwar (1993). *Lifetime Distributions of Components Sharing a Common but a Partial Environment*, unpublished manuscript, 15 pages.

C. Papers Submitted for Publication

- Marchand, Éric & Jafari Jozani, Mohammad & Tripathi, Yogesh Mani (2009). **On the inadmissibility of various estimators of normal quantiles and on applications to two-sample problems with additional information**, (Rapport de recherche 77, Département de mathématiques, Université de Sherbrooke)
- Ait Aoudia, Djilali & Marchand, Éric (2009). **On the number of runs for Bernoulli arrays**, (Rapport de recherche 76, Département de mathématiques, Université de Sherbrooke).
- Kucerovsky, Dan; Marchand, Éric; Payandeh Najafabadi, Amir & Strawderman, William (2009). **On the bayesianity of maximum likelihood estimators of restricted location parameters under absolute value error loss**, (Rapport de recherche 75, Département de mathématiques, Université de Sherbrooke).
- Fourdrinier, Dominique & Marchand, Éric (2009). **On Bayes estimators with uniform priors on spheres and their comparative performance with maximum likelihood estimators for estimating bounded multivariate normal means**, (Rapport de recherche 73, Département de mathématiques, Université de Sherbrooke).
- Jafari Jozani, Mohammad; Marchand, Éric & Parsian, Ahmad (2009). **Bayesian and Robust Bayesian Analysis Under a General Class of Balanced Loss Functions**.

D. Graduate Theses

Estimation d'une moyenne multivariée avec contraintes, Ph.D. Thesis under N.C. Giri, July 1990, (completed October 1990).

L'Analyse en composantes principales, Master's Thesis under the supervision of N.C. Giri, January 1986.

E. Research Grants

NSERC Discovery Grant	2007-2012	(\$16000 per year)
NSERC Discovery Grant	2003-2007	(\$12500 per year)
NSERC Operating Grant	1999-2003	(\$9450 per year)
NSERC Operating Grant	1997-1999	(\$6300 per year)
NSERC Operating Grant	1994-1997	(\$6000 per year)
NSERC Operating Grant	1991-1994	(\$9000 per year)

UNB Academic Development Fund	2002	(\$500)
UNB Academic Development Fund	2000	(\$400)
Internal Grant (École des HEC)	1998	(\$1200)
UNB Research Fund Contest	1994	(\$1500)
UNB Research Fund Contest	1992	(\$1500)
UNB Research Fund Contest	1990	(\$2000)
SEED Program Grant	2001	(10 weeks salary for research assistant)
Challenge Program Grant	1993	(12 weeks salary for research assistant)
Challenge Program Grant	1991	(10 weeks salary for research assistant)

F. Talks given at Conferences or Seminars (since 1990)

- **On the frequentist performance of Bayesian credible sets for some restricted parameter space problems: Recent results**, Poster presentation, O-Bayes workshop, Philadelphia, june 2009.
- **Estimation in Restricted Parameter Spaces: A Review**, Statistics seminar, University of Manitoba, june 2009.
- **Estimation in Restricted Parameter Spaces: A Review**, Séminaire de mathématiques et de statistique, Université du Nouveau-Brunswick (Fredericton), décembre 2008.
- **Sur le comportement de divers estimateurs bayésiens par intervalles pour des espaces paramétriques contraints: résultats récents**, Congrès conjoint SSC-SFDS, Ottawa, mai 2008.
- **Une introduction aux méthodes bayésiennes en statistique**, CREAS, Sherbrooke, mai 2008.
- **Intervalles de confiance bayésiens associées à des lois a priori non-informatives**, Séminaire de statistique, Université Laval, mars 2008.
- **À propos des problèmes des rencontres**, Club mathématique, Université de Sherbrooke, janvier 2008.
- **Méthodes bayésiennes associées à des lois a priori non-informatives et intervalles de confiance pour des espaces paramétriques contraints**, Conférence, UQTR, novembre 2007.
- **On the behaviour of Bayesian credible intervals for some restricted parameter space problems**, Séminaire de mathématiques et de statistique, Université du Nouveau-Brunswick (Fredericton), septembre 2007.
- **Balanced loss functions: Review and recent results**, Congrès annuel de la SSC, Saint-Jean, Terre Neuve, juin 2007.
- **Méthodes bayésiennes associées à des lois a priori non-informatives**, Colloque de mathématiques, Université de Sherbrooke, mai 2007.
- **Estimation dans les espaces paramétriques contraints: revue historique et résultats récents**, Colloquium de mathématiques, Université Montpellier II, mars 2007.
- **À propos d'une somme de sommes de variables aléatoires uniformes, un temps d'arrêt et une covariance particulière**, Club mathématique, Université de Sherbrooke, février 2007.
- **On the behaviour of Bayesian credible intervals for some restricted parameter space problems**, Banff International Research Station, Banff, juillet 2006.
- **Méthodes bayésiennes associées à des lois a priori non-informatives**, Premier colloque de biostatistique Sherbrooke-Montpellier, Université de Sherbrooke, mai 2006.
- **On the behaviour of Bayesian credible intervals for some restricted parameter space problems**, Séminaire de statistique, Université Rutgers, février 2006.
- **On the behaviour of Bayesian credible intervals for some restricted parameter space problems**, Séminaire de statistique, Université du Manitoba, novembre 2005.

- **Sur le comportement de divers estimateurs par intervalles pour des espaces paramétriques contraints**, Séminaire de statistique, Université de Sherbrooke, octobre 2005.
- **On the behaviour of Bayesian credible intervals for some restricted parameter space problems**, Congrès annuel de la SSC, Saskatoon, juin 2005.
- **Estimation dans les espaces paramétriques contraints : revue historique et résultats récents**, Séminaire de statistique, Université Laval, avril 2005.
- **Estimation in Restricted Parameter Spaces: A Review**, Séminaire de statistique, Université d'Ottawa, octobre 2004.
- **À propos d'une somme particulière de Bernouillis dépendantes et du problème des rencontres**, Club mathématique, Université de Sherbrooke, septembre 2004.
- **Estimating a bounded location parameter: recent results** (with François Perron), SSC Annual Meeting, Montréal, June 2004.
- **Estimation dans les espaces paramétriques contraints : revue historique et résultats récents**, Séminaire de statistique, Université de Sherbrooke, April 2004.
- **À propos d'une somme particulière de Bernouillis dépendantes et du problème des rencontres**, Séminaire de statistique, Université de Moncton, March 2004.
- **Improving on minimum risk equivariant estimators of location or scale parameters which are bounded**. Mathematics and Statistics seminar, University of New Brunswick, September 2003.
- **On a Particular Sum of Dependent Bernoulli and its Relationship to a Matching Type Problem** (with Anatole Joffe, François Perron, and Paul Popadiuk), SSC Annual Meeting, Halifax, June 2003.
- **Improving on minimum risk equivariant estimators of location or scale parameters which are bounded**. Statistics seminar, McGill University, February 2003.
- **On the inevitability of a paradox in shrinkage estimation for scale mixtures of normals**, (with Dominique Fourdrinier and William Strawderman), at the Sixth International Statistics Conference, Tehran, Iran, August 2002.
- **Improving on the mle of a bounded mean for spherical distributions**, (with François Perron), at the Sixth International Statistics Conference, Tehran, Iran, August 2002.
- **Estimation d'une moyenne multivariée avec contraintes**. Statistics seminar, UQÀM, March 2002.
- **On the inevitability of a paradox in shrinkage estimation for scale mixtures of normals** (with Dominique Fourdrinier and Bill Strawderman), at Statistics 2001: Fourth Canadian Conference in Applied Statistics, Montreal, July 2001.
- **On the Number of Runs of Length 2 in a Sequence of Bernoulli Trials and a Matching Type Problem** (with Anatole Joffe, François Perron and Paul Popadiuk), talk given by Anatole Joffe, 28th Conference on Stochastic Processes and Their Applications, Cambridge University, England, June 2001.
- **On the inevitability of a paradox in shrinkage estimation for mixture of normals**, Joint seminar (UNBF-UNBSJ), University of New Brunswick, April 2001.
- **Estimating a Multivariate Mean with a Bounded Norm**. Statistics seminar, Rutgers University, New Jersey, January 2001.
- **Estimation d'une moyenne dont la norme est bornée** (with François Perron), Colloque des Sciences Mathématiques du Québec, Concordia University, November 2000.
- **On a Particular Sum of Dependent Bernoulli and its Relationship to a Matching Type Problem** (with Anatole Joffe, François Perron, and Paul Popadiuk), Atlantic Math Days, Dalhousie University, Halifax, Nova Scotia, October 2000.
- **Estimating a Multivariate Mean with a Bounded Norm** (with François Perron), talk given by François Perron, Bayesian conference, Crete, Greece, May 2000.

- **Estimation d’une moyenne multivariée dont la norme est bornée** (with François Perron), talk given by François Perron, Meeting of the ASU (Association des Statisticiens Universitaires), Fes, Morocco, May 2000.
- **Estimating a Multivariate Mean with a Bounded Norm** (with François Perron), Quatrième rencontres mathématiques, Université de Rouen, Rouen, France, April 2000, .
- **Estimating a Multivariate Mean with a Bounded Norm** (with François Perron), talk given by François Perron, Regional meeting of the Institute of Mathematical Statistics (IMS), Chicago, March 2000.
- **Estimating a Multivariate Mean with a Bounded Norm**, Mathematics and Statistics seminar, University of New Brunswick, Fredericton, February 2000.
- **Estimating a Multivariate Mean with a Bounded Norm**, Concordia-UQÀM statistics seminar, January 2000.
- **Estimation ponctuelle d’une proportion binomiale avec contraintes**, Statistics seminar, Université de Moncton, December 1999.
- **Estimation d’une moyenne multivariée dont la norme est bornée**, Statistics seminar, Université de Montréal, November 1999.
- **Estimation d’une moyenne multivariée dont la norme est bornée** (with F. Perron), Colloque des Sciences Mathématiques du Québec, Université de Sherbrooke, October 1999.
- **Estimating a Multivariate Mean with a Bounded Norm** (with F. Perron), Atlantic Math Days, Memorial University, Saint John’s, Newfoundland, October 1999.
- **Point Estimation of the Coefficient of Determination**, Statistics seminar, University of New Brunswick, Fredericton, April 1999.
- **On a Surprising Covariance Identity**, Meetings of the American Statistical Association, Dallas, August 1998.
- **On a Problem of Diaconis** (with Anatole Joffe, François Perron and Paul Popadiuk), talk given by Anatole Joffe, 25th Conference on Stochastic Processes and Their Applications, Oregon, June 1998.
- **Estimation ponctuelle d’un coefficient de détermination**, SSC Annual Meeting, Sherbrooke, June 1998.
- **À propos de la covariance des parties fractionnaire et entière d’une somme de variables uniformes (0,1)**, Colloque des sciences mathématiques du Québec, Université du Québec à Montréal, April 1998.
- **Estimation ponctuelle d’un coefficient de détermination**, Séminaire du service des méthodes quantitatives en gestion, École des Hautes Études Commerciales, April 1998.
- **Point Estimation of the Coefficient of Determination**, Meetings of the American Statistical Association, Anaheim, August 1997.
- **Estimation of a Constrained Binomial Proportion**, Statistics Seminar, Concordia University, March 1997.
- **Estimation ponctuelle d’une proportion binomiale avec contraintes**, Séminaire de statistique, Université de Sherbrooke, February 1997.
- **Estimation ponctuelle d’une proportion binomiale avec contraintes**, Séminaire de statistique, Université de Montréal, December 1996.
- **Estimation of a Bounded Binomial Proportion**, Invited Speaker at the Meeting of IASIO, Montreal, November 1996, .
- **À propos de la covariance des parties fractionnaire et entière d’une somme de variables uniformes (0,1)**, Atlantic Math Days, Université de Moncton, October 1996.
- **Estimation ponctuelle d’une proportion avec contraintes**, Séminaire du service des méthodes quantitatives en gestion, École des Hautes Études Commerciales, April 1996.
- **Residential Sources of Lead in Saint John, New Brunswick: the Data Analysis (Public Talk)**, University of New Brunswick, Saint John, November 1995.

- **On the Number e and Increasing Runs**, Atlantic Math Days, Acadia University, Nova Scotia, November 1994.
- **On Mixtures of Beta Distributions, the Noncentral Beta Distribution and the Coefficient of Determination**, Joint Seminar (UNBF-UNBSJ), Saint John, September 1994.
- **James-Stein Estimation with Constraints on the Norm**, Meetings of the American Statistical Association, Toronto, August 1994.
- **On Estimating the Mean of a $N_p(\mu, \Sigma)$ Population with $\mu' \Sigma^{-1} \mu$ Known**, IMS-Bernouilli Joint Meetings, Chapel Hill, North Carolina, June 1994.
- **On Estimating the Mean of a $N_p(\mu, \Sigma)$ Population with $\mu' \Sigma^{-1} \mu$ Known**, Atlantic Math Days, Saint John, October 1993.
- **Estimation locale, globale et linéaire d'une moyenne multivariée**, Séminaire de Statistique, Université Laval, February 1993.
- **Linear, Local and Global Estimation of a Multivariate Mean**, Mathematics Seminar, University of New Brunswick, February 1993.
- **Bornes Inférieures pour l'Estimation d'une Moyenne Multivariée**, Séminaire de mathématiques, Université de Moncton, November 1992.
- **Estimation of a Constrained Proportion** (with B. MacGibbon), Atlantic Math Days, UPEI, Charlottetown, Prince Edward Island, October 1992.
- **Estimation d'une Proportion avec Contraintes** (with B. MacGibbon), Colloque des Sciences Mathématiques du Québec, Collège Militaire Royal de Saint-Jean, October 1992.
- **Lower Bounds for the Estimation of a Multivariate Mean**, SSC Annual Meeting, Edmonton, June 1992.
- **Estimating a Multivariate Mean with Constraints on the Norm**, Statistics Seminar, Dalhousie University, Halifax, April 1992.
- **An overview of spherical and elliptical distribution**, Mathematics Seminar, University of New Brunswick, Saint John, November 1991.
- **Estimation d'une Moyenne Multivariée avec Contraintes**, (with N.C. Giri) at the Decision Theory Colloquium, Congrès de l'ACFAS, Sherbrooke, May 1991.
- **Estimation d'une Moyenne Multivariée avec Contraintes**, Séminaire de mathématiques, Université de Sherbrooke, Sherbrooke, April 1991.
- **Optimal James-Stein Estimation**, Mathematics Seminar, University of New Brunswick, Saint John, November 1990.
- **Sur l'Égalité $E(X) = E[E(X|Y)]$ lorsque $E[X|Y]$ est une Constante avec Probabilité Un**, Colloque des sciences mathématiques du Québec and Atlantic Math Days, Université de Moncton, October 1990.
- **Estimation of a Multivariate Mean with a Known Norm**, SSC Annual Meeting, Saint John's, June 1990.

3 PROFESSIONAL ACTIVITIES (selected)

- Co-editor of a IMS collections volume (with Dominique Fourdrinier and Andrew Rukhin) in honour of William E. Strawderman, 2009 -
- Bilingualism committee of the SSC, 2009 -
- Canadian Journal of Statistics prize (committee member), 2008 and 2009
- Lise Manchester prize of the SSC (committee member), 2008
- Associate editor of the Annales des sciences mathématiques du Québec, 2009 -
- Associate editor of JIRSS (Journal of the Iranian Statistical Association), 2002 -
- Local arrangements organizer : MCMC methods: theory and applications, meeting of the Statistics laboratory of the CRM, october 2008.
- Member of the executive of the ISM, 2004 - 2008
- Carl Herz prize: committee member, 2008
- Organizer and session chair (Confidence intervals and regions), SSC annual meeting, Saint-John's, Newfoundland, 2007.
- Invited participant: *Banff International Research Station (BIRS) workshop Statistical Inference Problems in High energy physics and astronomy*, july 2006.
- Organizer of *Colloque de mathématiques*, Département de mathématiques, Université de Sherbrooke, 2007 and 2008
- Co-organizer (with Gilles Ducharme) of *Colloque de biostatistique: Sherbrooke-Montpellier*, 2006.
- Organizer and session chair (Estimation in restricted parameter spaces), SSC annual meeting, Saskatoon, 2005.
- Organizer *Séminaire de statistique*, Département de mathématiques, Université de Sherbrooke 2005, 2006, 2007, 2008.
- Provincial Coordinator for the MMC (Maritime Math Competition); 2001, 2002 and 2004.
- Contributor to APICS mathematics competitions (1990, 1999)
- Session Chair. *Statistics 2001: Fourth Canadian Conference in Applied Statistics*, Montreal, July 2001.
- Statistical Society of Canada (SSC) Regional Representative, 2002 - 2006.
- AARMS (Atlantic Association for Research in the Mathematical Sciences) Representative 2000-2002.
- Various translations including of mathematics competitions (e.g., Canadian Olympiad 2002).
- Region 2 Hospital Corporation, Research Review Committee Member May 1993-January 1996.

Refereeing

Canadian Journal of Statistics (2009), Statistics & Probability Letters (2009), Statistics & Probability Letters (2009), JSPI (2009), Communications in Statistics: Theory and Methods (2009), Statistics & Probability Letters (2009), JSPI (2008), Communications in Statistics: Theory and Methods (2008), Statistical Science (2008), Proceedings of the American Mathematical Society (2008), Annales des sciences mathématiques du Québec (2008), Metrika (2007), Journal of Statistical Planning and Inference (2007), Statistical Methodology (2007), Journal of Statistical Planning and Inference (2007), Canadian Journal of Statistics (2007), Metron (2007), Statistical Papers (2007), Insurance: Mathematics and Economics (2007), Annales des sciences mathématiques du Québec (2007, 3 times), JSPI (2006), Communications in Statistics (2006), Annales des sciences mathématiques du Québec (2006, 4 times), IMS Lecture Notes (2005), Annales des sciences mathématiques du Québec (2005, twice), JASA (2004, twice), Sankhyā (2004), JIRSS (2004), JASA (2003, twice), Journal of Statistics: Application and Theory (2003), JSPI (2002), JASA (2002), IMS Lecture Notes

(2002), Canadian Journal of Statistics (2002), Statistics and Decisions (2001), Statistics & Probability Letters (2000), Metrika (2000), Journal of Multivariate Analysis (1999), Canadian Journal of Statistics (1998), Statistics and Decisions (1998), Canadian Journal of Statistics (1997), Canadian Journal of Statistics (1994), Communications in Statistics (1993), Canadian Journal of Statistics (1992),

Selection of consulting activities (1990-1996) and 1999-2004 with researchers at the Saint John Regional Hospital and UNB

Member of the Applied Statistics Centre (1999-2004), University of New Brunswick. Frequent consultations with researchers and graduate students.

Analysis of compositional differences between upper eocene impact ejecta layers, with James Whitehead (geology), 2001-2002.

Meta analysis of criminal recidivism, with Paul Gendreau (psychology), 1993-1996.

Analysis of the Wellness questionnaire, for Judy Morrell, Head of Nursing, November 1992-May 1993 (with Jeff Phillips).

Efficiency of a Heart Bypass Oxygenator, for Dr. Bill O'Reilly, 1994, (with Rania Abu Rabia).

Carcinoma of the Rectum Study, for Dr.'s John Carson and Margot Burnell, 1994, (with Steven Ball).

The Contribution of Lead-Contaminated Drinking Water to the Level of Lead in the Blood, Greater Saint John Area: Phase II, for Dr. Richard Scott, 1994 - 1995, (with Jeff Phillips and Steven Ball).

The Contribution of Lead-Contaminated Drinking Water to the Level of Lead in the Blood, Greater Saint John Area: Phase III, for Dr. Richard Scott, 1995, (with Vance MacLaren).

Efficacy of Group Diet Classes for Cardiac Patients, for Dr. J. Johnson, 1995, (with Vance MacLaren).

Potassium Handling during Cardiopulmonary Bypass, for Dr. David Hughes, 1995 - 1996, (with Claire Goggin).