

Curriculum Vitæ – Lawrence Joseph

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A. Coordinates

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B. Education

- 1990 Ph.D. (Statistics)
McGill University, Montreal.
Placed on Dean's honor list.
Ph.D. thesis title: The Multi-Path Change-Point.
- 1984 Master of Science (Applied Statistics)
McGill University, Montreal.
Master's thesis title: Screening for Breast Cancer:
An Assessment of Various Stochastic Models.
- 1982 Bachelor of Science (Mathematics)
McGill University, Montreal.
B.Sc. degree completed with Great Distinction.
Faculty Scholar
Beatty Scholarship in Mathematics.
McConnell Award in Science.
- 1978 DEC (Pure and Applied Sciences)
Vanier College, Montreal.

C. Appointments

University

- 2014 - present Regular Member, Centre for Interdisciplinary
Research in Music Media and Technology, McGill University
- 2006 - present Professor, Department of
Epidemiology and Biostatistics, McGill University
- 1996 - 2006 Associate Professor, Department of
Epidemiology and Biostatistics, McGill University
- 1994 - present Associate Member, Department of Mathematics
and Statistics, McGill University
- 1990 - 1996 Assistant Professor, Department of
Epidemiology and Biostatistics, McGill University
- 1984 - 1989 Part-Time Faculty Lecturer, Department
of Mathematics and Statistics, McGill University

Hospital

- 1992 - present Medical Scientist, Division of Clinical Epidemiology,
Montreal General Hospital
- 1991 - present Faculty Member, Centre for the Analysis of
Cost-Effective Care, The Montreal General Hospital
- 1989 - present Co-Director, Biostatistical Consulting Unit,
Division of Clinical Epidemiology, Montreal General Hospital
- 1989 - present Biostatistician, Division of Clinical Epidemiology,
Montreal General Hospital

Other

- 1994 - 1996 Member of the Scientific Advisory Panel, Canadian
Coordinating Office for Health Technology Assessment, Ottawa

D. Special Honors, Awards

Career Awards

2006-2011	FRSQ Chercheur-Nationale	\$150,000
2001-2006	CIHR Senior Investigator Award	\$350,000
1997-2001	FRSQ Chercheur-Boursier	\$185,392
1994-1997	FRSQ Chercheur-Boursier	\$120,657
1989-1992	Montreal General Hospital Foundation Award	\$110,000
1986-1988	McConnell Fellowship in Science	\$16,000
1983-1986	Natural Sciences and Engineering Research Council Award	\$24,000

Teaching Awards

1995-1996	Award for Teaching Excellence (awarded by students in the Department of Epidemiology and Biostatistics)
1997-1998	Award for Teaching Excellence (awarded by students in the Department of Epidemiology and Biostatistics)
2000-2001	Award for Teaching Excellence (awarded by students in the Department of Epidemiology and Biostatistics)
2002-2003	Award for Teaching Excellence (awarded by students in the Department of Epidemiology and Biostatistics)
2004	Faculty Honour List for Educational Excellence (Faculty of Medicine)
2005-2006	Award for Teaching Excellence (awarded by students in the Department of Epidemiology and Biostatistics)
2008-2009	Award for Teaching Excellence (awarded by students in the Department of Epidemiology and Biostatistics)
2009-2010	Award for Teaching Excellence (awarded by students in the Department of Epidemiology and Biostatistics)
2011-2012	Award for Teaching Excellence (awarded by students in the Department of Epidemiology and Biostatistics)
2014-2015	Award for Teaching Excellence (awarded by students in the Department of Epidemiology and Biostatistics)

E. Teaching

Graduate Courses

Department of Epidemiology and Biostatistics, McGill University

Year	Course #	Course Title	In Class hours	Credits	Approx. # Students
1990	513-607L	Principles of Inferential Statistics (with Jim Hanley)	39	3	50
1990	513-607A	Principles of Inferential Statistics	39	3	52
1991	513-651C	Computers in Clinical Epidemiology - Part I	13	1	29
1991	513-652C	Computers in Clinical Epidemiology - Part II	13	1	29
1991	513-607A	Principles of Inferential Statistics	39	3	54
1992	513-676C	Methods in Clinical Research	39	3	27
†1992	513-607A	Principles of Inferential Statistics	39	3	35
1993	513-607L	Principles of Inferential Statistics	39	3	28
1994	513-651B	Bayesian Analysis (with Stan Shapiro)	13	1	10
1994	513-675B	Reading Course in Bayesian Analysis	39	3	1
†1994	513-607A	Principles of Inferential Statistics	39	3	30
1995	513-651B	Bayesian Analysis (with Stan Shapiro)	13	1	10
*1995	513-607A	Principles of Inferential Statistics	39	3	30
1996	513-651B	Bayesian Analysis (with Stan Shapiro)	13	1	13
1996	513-607A	Principles of Inferential Statistics	39	3	31
†1997	513-651B	Bayesian Analysis (with Stan Shapiro)	13	1	10
*1997	513-607A	Principles of Inferential Statistics	39	3	40
1998	513-651B	Bayesian Analysis (with Stan Shapiro)	13	1	13
1998	513-607A	Principles of Inferential Statistics	39	3	40
1999	513-651B	Bayesian Analysis	13	1	14
†1999	513-607A	Principles of Inferential Statistics	39	3	35
2000	513-651B	Bayesian Analysis (with Stan Shapiro)	13	1	15
*2000	513-607A	Principles of Inferential Statistics	52	4	32
2001	513-651B	Bayesian Analysis (with Stan Shapiro)	13	1	10
*2002	513-607A	Principles of Inferential Statistics	52	4	60
2003	513-651B	Bayesian Analysis (with Stan Shapiro)	13	1	11
†2003	EPIB-607	Principles of Inferential Statistics	52	4	45
2004	EPIB-651	Bayesian Analysis (with Stan Shapiro)	13	1	10
†2005	EPIB-677	Bayesian Analysis	39	3	9
*2006	EPIB-677	Bayesian Analysis	39	3	10
†2007	EPIB-621	Data Analysis in the Health Sciences	52	4	25
†2008	EPIB-621	Data Analysis in the Health Sciences	52	4	30
*2009	EPIB-621	Data Analysis in the Health Sciences	52	4	37
2009	EPIB-675	Reading Course in Bayesian Analysis	39	3	1
*2010	EPIB-621	Data Analysis in the Health Sciences	52	4	33
2011	EPIB-621	Data Analysis in the Health Sciences (with Aurélie Labbe)	52	4	45
2011	EPIB-613	Introduction to Statistical Software (with Jay Kaufman)	13	1	38
2012	EPIB-621	Data Analysis in the Health Sciences (with Aurélie Labbe)	52	4	45
*2012	EPIB-675	Bayesian Analysis for the Health Sciences	39	3	9
2012	EPIB-613	Introduction to Statistical Software (with Jay Kaufman)	13	1	38
2012	EPIB-668	Bayesian Analysis for the Health Sciences (Part 1)	26	2	15
2013	EPIB-669	Bayesian Analysis for the Health Sciences (Part 2)	26	2	15
2013	EPIB-682	Bayesian Analysis for the Health Sciences (Part 1)	26	2	25
2014	EPIB-683	Bayesian Analysis for the Health Sciences (Part 2)	26	2	15
*2015	EPIB-621	Data Analysis in the Health Sciences	52	4	35
2015	EPIB-682	Bayesian Analysis for the Health Sciences (Part 1)	26	2	20
2016	EPIB-683	Bayesian Analysis for the Health Sciences (Part 2)	26	2	20

* indicates winner of the Student Award for Teaching Excellence.

† indicates runner-up prize in the Student Award for Teaching Excellence.

Undergraduate Courses

Department of Mathematics and Statistics, McGill University

Year	Course #	Course Title	In Class hours	Credits	Approx. # Students
1984	189-224B	Applied Matrix Algebra	39	3	30
1985	189-323A	Probability Theory	39	3	10
1986	189-224A	Applied Matrix Algebra	39	3	70
1987	189-224A	Applied Matrix Algebra	39	3	70
1988	189-224A	Applied Matrix Algebra	39	3	70
1988	189-224B	Applied Matrix Algebra	39	3	70
1989	189-221B	Vectors and Matrices	39	3	200

Department of Epidemiology and Biostatistics, McGill University

Year	Course #	Course Title	In Class hours	Credits	Approx. # Students
1995	513-400	Clinical Epidemiology for Med IV students (with Gary Pেকেles)	4	3	125

E2. Research Trainees Supervised

Academic Thesis Supervision as the Primary Supervisor

Graduated

2014-2017	Tina Boikos, PhD (Co-Supervisor with Caroline Quach) Epidemiology and Biostatistics)
2015-2016	Laura Drudi, M.Sc. (Co-Supervisor with Jonathan Afilalo Epidemiology and Biostatistics)
2012-2015	Lianne Soller, PhD (Co-Supervisor with Ann Clarke Epidemiology and Biostatistics)
2012-2013	ZhouYu Wang, MSc (Co-Supervisor with Nandini Dendukuri Epidemiology and Biostatistics)
2010- 2012	Jeremy Labrecque, MSc (Co-Supervisor with Sasha Bernatsky Epidemiology and Biostatistics)
2004-2012	Héloïse Cardinal, Ph.D. (Co-Supervisor with James Brophy Epidemiology and Biostatistics)
2008-2012	Mohammed Kaouache, Ph.D. (Epidemiology and Biostatistics)
2009- 2011	Lianne Soller, MSc (Co-Supervisor with Ann Clarke Epidemiology and Biostatistics)
2010-2011	Yalda Jafari, MSc (Co-Supervisor with Nikki Pant Pai Epidemiology and Biostatistics)
2007- 2011	Brian Hutton, Ph.D. (Epidemiology and Biostatistics)
2009-2011	Moshe Ben-Shoshan, MSc (Co-Supervisor with Ann Clarke Epidemiology and Biostatistics)
2009-2010	Alison Sinclair, M.Sc. (Non-thesis project) Epidemiology and Biostatistics)
2005-2009	Kris Filion, Ph.D. (Co-Supervisor with James Brophy Epidemiology and Biostatistics)
2004-2009	Martin Ladouceur, Ph.D. (Co-Supervisor with Elham Rahme Epidemiology and Biostatistics)
2006-2008	Maala Bhatt, M.Sc. (Epidemiology and Biostatistics)
2003-2007	Line Vautour, M.Sc. (Epidemiology and Biostatistics)
2004-2006	Brent Richards, M.Sc. (Epidemiology and Biostatistics)
2004-2006	Ying Lu, M.Sc. (Co-Supervisor with Nandini Dendukuri Epidemiology and Biostatistics)
2003-2006	Suzette Poliquin, M.Sc. (Epidemiology and Biostatistics)
*2002-2004	Philippe Carriere, M.Sc. (Epidemiology and Biostatistics)
2002-2004	Martin Ladouceur, M.Sc. (Co-Supervisor with Elham Rahme Epidemiology and Biostatistics)
1999-2004	Andrew Kmetc, Ph.D. (Epidemiology and Biostatistics)
2000-2003	Tanya Murphy, M.Sc. (Co-Supervisor with Celia Greenwood Epidemiology and Biostatistics)
1998-2002	Cyr Emile M'Lan, Ph.D. (Co-supervisor with David Wolfson, Mathematics and Statistics)
2000-2002	Vicky Tagalakis, M.Sc. (Co-Supervisor with Susan Kahn Epidemiology and Biostatistics)
1999-2001	Joe Romagnuolo, M.Sc. (Co-Supervisor with Alan Barkun, Epidemiology and Biostatistics)
1998-2001	Lin Wang, MSc (Epidemiology and Biostatistics)
*1999-2000	Tomás Cámara, M.Sc. (Mathematics and Statistics)
*1996-2000	Caroline Reinhold, M.Sc. (Epidemiology and Biostatistics)

- 1996-1998 James Brophy, Ph.D. (Epidemiology and Biostatistics)
- 1996-1998 Nandini Dendukuri, Ph.D. (Epidemiology and Biostatistics)
- 1993-1997 Xiaojie Zhou, Ph.D. (Co-supervisor with David Wolfson,
Mathematics and Statistics)
- 1995-1997 Susan Kahn, M.Sc. (Co-supervisor with Lucien Abenain,
Epidemiology and Biostatistics)
- *1994-1997 Elham Rahme, Ph.D. (Mathematics and Statistics)
- 1994-1996 Marie-Ange Paget, M.Sc. (Mathematics and Statistics)
- 1991-1992 Louis Coupal, M.Sc. (Mathematics and Statistics)
- 1990-1991 Marie-France Raynault, M.Sc. (Co-supervisor with Renaldo Battista,
Epidemiology and Biostatistics)

* **Thesis placed on the Dean's Honor List**

Current

- 2013- ZhouYu Wang, PhD (Co-Supervisor with Nandini Dendukuri
Epidemiology and Biostatistics)

Academic Thesis Supervision as Member of Committee (supervisor in parentheses, Department of Epidemiology and Biostatistics)

Graduated

2010-2016	Samantha Hajna, Ph.D. (Kaberi DasGupta)
2013-2015	Talat Bessissow, M.Sc. (Paul Brassard, Experimental Medicine)
2012-2014	Vladimir Marquez Azalgara, M.Sc. (Maida Sewitch)
2010-2013	Sunil Garg, MSc (Mark Eisenberg)
2011-2012	Jin Choi, M.Sc. (Louise Pilote)
2010-2012	Mengzhu Jiang, M.Sc. (Maida Sewitch)
2010-2012	Megan Knoll, M.Sc. (Ann Clarke)
2010-2011	Majid Almadi, M.Sc. (Maida Sewitch)
2007-2011	Nha Uyen Nguyen Luu, M.Sc. (Ann Clarke)
2007-2010	Gisele Li, M.Sc. (Jean-Francois Boivin)
2007-2010	Lucy Boothroyd, Ph.D. (Jean-Francois Boivin)
2007-2010	Priya Manjoo, M.Sc. (Kaberi DasGupta)
2007-2010	Jonathan Wyse, M.Sc. (Maida Sewitch)
2005-2007	Scott Weichenthal, Ph.D. (Claire Infant-Rivard)
2004-2006	Jack Ishak, Ph.D. (Robert Platt)
2004-2006	Thao Huynh, M.Sc. (Jennifer O'Loughlin)
2003-2006	Carine Bellera, Ph.D. (Jim Hanley)
2004-2005	Mike Zappitelli, M.Sc. (Gilles Paradis)
*2003-2005	Eduardo da Silveira, M.Sc. (Alan Barkun)
2002-2005	Sasha Bernatsky, Ph.D. (Ann Clarke)
2002-2004	Allison Scott, M.Sc. (Marcel Behr)
2001-2002	Alison Jenkins, M.Sc. (Theresa Gyorkos)
2000-2003	Dean Fergusson, Ph.D. (Stan Shapiro)
2000-2001	Sasha Bernatsky, M.Sc. (Ann Clarke)
1999-2004	Sophie Kulaga, Ph.D. (Kevin Schwartzman)
1997-2001	Sergio Nishioka, Ph.D. (Theresa Gyorkos)
1997-1999	Veronique Benk, M.Sc. (Renaldo Battista)
1997-1999	Ahmet Demir, M.Sc. (Margaret Becklake)
1996-2000	Angela Mitra, M.Sc. (Pierre Ernst)
1996-1999	Christine Peshkin, M.Sc. (John Esdaile)
1996-1998	Hong Yong, M.Sc. (Samy Suissa)
1996-1998	Vanessa Catalan, Ph.D. (Jim Hanley)
1996-1998	Hala Tamim, Ph.D. (John Sampalis)
1995-1997	Michael Schull M.Sc. (Renaldo Battista)
1994-1998	Hélène Carabin, Ph.D. (Theresa Gyorkos)
1994-1996	Susan Chatwood, M.Sc. (Abby Lippman)
1994-1996	Elizabeth Stratton, M.Sc. (Terry Tannenbaum)
1993-1998	Lyne Lalonde, Ph.D. (Steven Grover)
1993-1995	Debby Lambert, M.Sc. (Ken Morgan)
1993-1995	K.S. Joseph, Ph.D. (Mike Kramer)
1993-1995	Karimollah Hajian Tilaki, Ph.D. (Jim Hanley)
1992-1993	Sonia Mata, M.Sc. (John Esdaile)
1992-1995	Kitaw Demissie, Ph.D. (Pierre Ernst)
1990-1993	Hailu Yeneneh, Ph.D. (Theresa Gyorkos)
1990-1995	Sylvie Cardin, Ph.D. (J.-F. Boivin)
1990-1995	Nancy Edwards, Ph.D. (J.-F. Boivin)
1989-1991	Fred Burge, M.Sc. (Pierre Tousignant)
1989-1990	Christiane Poulin, M.Sc. (Theresa Gyorkos)

Current

- 2014- Brittany Blouin, Ph.D. (Theresa Gyorkos)
- 2014- Sal Mottillo, M.Sc. (Mark Eisenberg)
- 2015- Akanksha Srivastava, Ph.D. (Belinda Nicolau, Dentistry)
- 2015- Sreenath Arekunnath Madathi, Ph.D. (Belinda Nicolau, Dentistry)
- 2015- Sofianne Gabrielli, M.Sc. (Moshe Ben-Shoshan, Experimental Medicine)
- 2015- Alex Demarsh, Ph.D. (David Buckeridge)
- 2015- Vanessa Yaremchuk, Ph.D. (Marcelo Wanderley, Music Technology)

Supervision in the Faculty of Medicine Foreign Student Elective Program

Edgar Morales Juvera (Elective in Statistics in Medicine), 1990

E3. Invited Lectures

McGill Departments

1. Sample size and power calculations in clinical trials. Interdisciplinary Oncology Rounds Seminar, Montreal General Hospital, 1990.
2. Statistics: what you need to know to understand the medical literature. Montreal General Hospital Residents Journal Club, 1992.
3. A sample statistical consulting problem. Guest lecture given for the course Epidemiology 513-651, 1992.
4. The use of spreadsheets in epidemiology. Guest lecture given for the course Epidemiology 513-610 A, 1992.
5. Computer solutions to complex statistical problems. Department of Epidemiology and Biostatistics, Seminar Series, McGill University, 1992
6. Introduction to Bayesian analysis. Guest lecture given for the course Epidemiology 513-695, 1993.
7. Why should we consider Bayesian analysis? Division of Clinical Epidemiology, Montreal General Hospital Scientific Sessions, 1993.
8. Bayesian estimation in diagnostic testing in the absence of a gold standard. Division of Clinical Epidemiology, Montreal General Hospital Scientific Sessions, 1994.
9. Applications of Bayesian analysis in medicine. Guest lecture given for the course Epidemiology 513-695, 1994.
10. Managing uncertainty: Decision analysis and sample size. Pharmaco-economics Conference. Montreal General Hospital, 1994.
11. Statistical analysis for 2×2 tables in the absence of a gold standard. Department of Epidemiology and Biostatistics Seminars, McGill University, 1994.

12. Bayesian analysis in epidemiology. Guest lecture given for the course Epidemiology 513-695, 1995.
13. Decision analysis in medicine. Guest speaker for the course Epidemiology 513-666, 1995.
14. Bayesian Computing I – Sampling Importance Resampling. Guest lecture for the course Epidemiology 513-677, 1996.
15. Bayesian Computing II – The Gibbs Sampler. Guest lecture for the course Epidemiology 513-677, 1996.
16. Bayesian Consulting – Sample size and model selection. Division of Clinical Epidemiology, Montreal General Hospital Scientific Sessions, 1997.
17. The Canadian Multi-Centered Osteoporosis Study – Design and statistical methods. Department of Epidemiology and Biostatistics, Seminar Series, McGill University, 1997.
18. Sample size and model selection via a Bayesian approach. Division of Clinical Epidemiology, Royal Victoria Hospital Scientific Sessions, 1998.
19. Decision analysis and sample size in medicine. Guest lecture for the course Epidemiology 513-630, 1998.
20. Introduction to statistics for quality of life evaluation. Guest speaker for the Two Day Pharmacoeconomics Conference, Montreal General Hospital, 1998.
21. Introduction to decision analysis. Guest lecture for the course Epidemiology 513-642, 1998.
22. Bayesian model selection. Centre for Clinical Epidemiology and Community Studies, Jewish General Hospital, 1999.
23. Why should a clinical researcher care about Bayesian analysis? Montreal Children’s Hospital Epidemiology Rounds, 1999.
24. A review of various sample size criteria. Division of Clinical Epidemiology, Montreal General Hospital Scientific Sessions, 2000.
25. Counterbalancing patient demands with evidence: Results from a Pan-Canadian RCT of group psychotherapy for SLE (with Patricia Dobkin). Department of Epidemiology and Biostatistics, Summer Seminar Series, McGill University, 2000.
26. Optimal design of medical studies: more than just sample size. Division of Clinical Epidemiology, Montreal General Hospital Scientific Sessions, 2001.
27. What sample size criterion should be used? Centre for Clinical Epidemiology and Community Studies, Jewish General Hospital, 2001.
28. Bayesian sample size criteria. Department of Mathematics and Statistics Seminar Series, March 29, 2001.
29. Bayesian analysis in Epidemiology. Guest lecture for the course Clinical Epidemiology, EPIB-679, May 2005.
30. Bayesian Model Selection. Department of Epidemiology and Biostatistics, Biostatistics Seminars, March 2006.
31. Introduction to optimal design for medical research. Centre for Clinical Epidemiology and Community Studies, Jewish General Hospital, December 2006.

32. Bayesian Analysis of Misclassified Data. Department of Epidemiology and Biostatistics, Seminar Series, McGill University, April 2007.
33. An introduction to Bayesian adjustments for measurement error. Department of Epidemiology and Biostatistics, Biostatistics Seminars, April 2008.
34. Variability: The Lifeblood of An Academic Biostatistician. Department of Epidemiology and Biostatistics, Seminar to Summer Interns, May 2010.
35. Introduction to R. Guest lecture for the course EPIB-607, September 2011.
36. Bayesian Sample Size for Linear Regression: Adjusting for Measurement Error and Confounding. Department of Epidemiology and Biostatistics, Biostatistics Seminars, April 2014.
37. Alternatives to P-Values: Interval Estimates and Bayesian Analysis. Department of Kinesiology and Physical Education Seminar Series. October 2014.
38. Introduction to Bayesian estimation in diagnostic testing in the absence of a gold standard. Department of Epidemiology and Biostatistics, Student Biostatistics Seminars, November 2014.

Outside McGill

1. Inference in multi-path change-point problems. Montreal Statistics Society Colloquium, 1993.
2. Bayesian sample size calculations. Seminars in Statistics, Université de Montréal, 1994.
3. Statistics in Medicine. Statistical Society of Montreal, 1994.
4. Estimating disease prevalence when there is no gold standard. Statistical Society of Montreal, 1994.
5. Bayesian estimation in diagnostic testing in the absence of a gold standard. Conseil d'évaluation des technologies de la santé du Québec, 1994.
6. Bayesian estimation of diagnostic test parameters. Biostatistics Seminar Series, Queen's University, Kingston, Ontario, 1995.
7. Statistical Methods in CaMos. Canadian Multicentered Osteoporosis Annual Scientific Meeting, Banff, Alberta, 1996.
8. Statistical aspects of sensitivity analysis: An application to screening for glaucoma in Quebec. Guest lecture for the course "Health technology assessment applied to screening", CCOHTA, 1998.
9. Bayesian model selection. Canadian Multicentered Osteoporosis Annual Scientific Meeting, Montreal, Quebec, 1999.
10. Bayesian Sample Size Criteria. Statistics 2001 Canada: The Fourth Canadian Conference in Applied Statistics. Concordia University, Montreal, June 8-10, 2001.
11. Criteria for Bayesian Sample Size Determination. CRM-SSC Bayesian Statistics Day, Université de Montréal, November 8, 2002.
12. Introduction to Bayesian Analysis for Clinicians. Canadian Cardiovascular Outcomes Research Team (CCORT) Research Day, Montreal General Hospital, November 22, 2002.
13. Top Ten Reasons to be Bayesian with an Example to Adjusting for Misclassification Error. Environmental Epidemiology and Population Health Research Group, Département de médecine sociale et préventive, Université de Montréal, November 25, 2009.

F. Other Contributions

F1. Journals

Journal Editorships

2006-2010 Associate Editor, Statistics in Medicine
2010-2016 Associate Editor, Biometrics

Reviewer of Articles

1989- Journal of Clinical Epidemiology
1992- Canadian Journal of Statistics
1994- Clinical and Investigative Medicine
1994- Arthritis and Rheumatism
1994- The Statistician
1994- Communications in Statistics
1995- Annals of the Institute of Statistical Mathematics
1995- Medical Decision Making
1995- American Journal of Public Health
1996- Journal of the American Statistical Association
1997- Journal of Statistical Computation and Simulation
1997- Canadian Medical Association Journal
1998- American Journal of Epidemiology
1998- The Lancet
1998- The Annals of Surgical Oncology
1999- Statistics in Medicine
2000- Biometrics
2002- Parasitology
2003- Statistical Science
2003- Controlled Clinical Trials
2004- Statistics
2005- Computational Statistics and Data Analysis
2005- Econometrica
2008- Journal of Statistical Planning and Inference
2009- Statistics and Probability Letters
2009- Contemporary Clinical Trials
2011 - Environmental Reviews
2011 - Clinical Infectious Diseases
2013 - International Journal of Circumpolar Health
2013 - PLOS One

F2. Grant Reviews

Reviewer For Granting Agencies

- 1992- IRSST (Institut de recherche en santé et en sécurité du travail au Québec)
- 1992- FRSQ (Fonds de la Recherche en Santé du Québec)
- 1993- NSERC (Natural Sciences and Engineering Research Council)
- 1994- MRC (Medical Research Council)
- 1996- NHRDP (National Health Research and Development Program)
- 1999- CIHR (Canadian Institutes of Health Research)

Panel Member of Review Committees

- 1995 NHRDP (National Health Research and Development Program)
- 1994-1996 CCOHTA (Canadian Coordinating Office for Health Technology Assessment)
- 1997 MRC (Medical Research Council)
- 1999-2002 NSERC (Natural Sciences and Engineering Research Council)
- 2003 - CIHR (Canadian Institutes of Health Research)

F3. Administrative Responsibilities

- 1989-1990 Organizer, Research Seminars, Division of Clinical Epidemiology, Montreal General Hospital
- 1990-1991 Organizer, Scientific Sessions, Division of Clinical Epidemiology, Montreal General Hospital
- 1992 Organizer, Biostatistical Group Meetings, Department of Epidemiology and Biostatistics, McGill University
- 2000 Organizer, Research Seminars, Division of Clinical Epidemiology, Montreal General Hospital (April 2000)
- 2001 Organizer, Research Seminars, Division of Clinical Epidemiology, Montreal General Hospital (February 2001)
- 2004 Organizer, Research Seminars, Division of Clinical Epidemiology, Montreal General Hospital (May 2004)
- 2008 Organizer, Research Seminars, Division of Clinical Epidemiology, McGill University Health Center (November 2008)

F4. Committees

- 1991-1993 Member, Admissions Committee, Department of Epidemiology and Biostatistics, McGill University
- 1992-1993 Member, Curriculum Committee B, Department of Epidemiology and Biostatistics, McGill University
- 1993-1994 Chairman, Curriculum Committee B, Department of Epidemiology and Biostatistics, McGill University.
Responsible for the design, content, and implementation of the new Biostatistics stream which began in September, 1994.
- 1994-1996 Member, Curriculum Committee, Department of Epidemiology and Biostatistics, McGill University
- 1994-2001 Program Advisor, Biostatistics Stream, Department of Epidemiology and Biostatistics, McGill University
- 1994- 1997 Member, Graduate Studies Committee, Department of Epidemiology and Biostatistics, McGill University
- 1996-1997 Chairman, Curriculum Committee, Department of Epidemiology and Biostatistics, McGill University
- 1997-2001 Member, Curriculum Committee, Department of Epidemiology and Biostatistics, McGill University
- 1998-2001 Member, Coordinating Committee, Department of Epidemiology and Biostatistics, McGill University
- 2002-2004 Member, Fellowships and Ranking Committee, Department of Epidemiology and Biostatistics, McGill University
- 2002-2004 Member, Ad hoc MSc Program Committee, Department of Epidemiology and Biostatistics, McGill University
- 2002-2004 Member, Admissions Committee, Department of Epidemiology and Biostatistics, McGill University
- 2002-2004 Member, Ad hoc committee for academic non-tenure track appointments, Department of Epidemiology and Biostatistics, McGill University
- 2002-2004 Member, Ad hoc committee for Faculty Appointments, Department of Epidemiology and Biostatistics, McGill University
- 2003-2008 Member, Appointments Promotions and Tenure Sub-Committee, Department of Epidemiology and Biostatistics, McGill University
- 2004-2017 Chair, Admissions Committee, Department of Epidemiology and Biostatistics, McGill University
- 2004-2017 Member, Epidemiology Programs Committee, Department of Epidemiology and Biostatistics, McGill University
- 2005-2010 Faculty Member, Board of Governors, CKUT Campus/Community Radio McGill University
- 2005- Member, Recruitment Committee, Department of Epidemiology and Biostatistics, McGill University
- 2008-2011 Member, Promotions Committee, Faculty of Medicine, McGill University
- 2009-2017 Member, Departmental Tenure Committee, Department of Epidemiology and Biostatistics, McGill University
- 2016-2017 Chair, Biostatistics Recruitment Committee, Department of Epidemiology and Biostatistics, McGill University

F5. Professional Associations

- 1987- Institute of Mathematical Statistics
- 1987- American Statistical Association
- 1989- Biometric Society
- 1994- Canadian Statistical Society
- 1994- International Society for Bayesian Analysis

F6. Other Professional and Scientific Contributions

- 1992-1995 McGill representative and judge at the Montreal Regional Science Fair
- 1990-1994 Member, EPI-PALU, interdisciplinary malaria research

G. Research

G1. Research Activities

My research program currently focuses on three topics in biostatistical research.

(i) Estimating population prevalence and the properties of diagnostic tests in the absence of a gold standard: It is common in population screening surveys or in the investigation of new diagnostic tests to have results from one or more tests investigating the same disease, but none of which can be considered perfectly error-free. Despite these limitations, it is important for clinical and public health practice to have the best possible estimates of disease prevalence and the properties of diagnostic tests, such as the sensitivity and specificity. Methodology for the simultaneous estimation of the prevalence and test properties has been developed, and applied to several different areas, including asthma and parasitology. Current work includes extending the methodologies to correlated tests, ROC curve estimation, and design issues in diagnostic testing.

(ii) Multi-path change-point (MPCP) modelling: MPCP models offer a completely original approach to the analysis of repeated measures designs. These designs are of great interest since many medical experiments take several measurements of each subject over time, and MPCP models can produce improved estimators of important parameters for these designs. In addition, the models are able to answer clinically important questions not addressable by standard analyses. Various MPCP models have been developed, and applied to studies in neurology, public health, traffic safety, and hypertension prevention. Current work includes various clinical applications and design issues.

(iii) Bayesian methods for sample size calculations: Consideration of the optimal number of subjects required is an essential step in the planning of virtually every experiment in medicine. Novel methods have been developed for sample size determination for experiments giving rise to binomial, normal, and differences between two binomial or normal data. Current research investigates more complex univariate and multivariate situations.

New biostatistical methods cannot reach their full potential without the distribution of the software necessary for their implementation. User-friendly programs have been created for all of the above methodologies, and have been made available to other researchers through the internet. Requests for this software are received

regularly.

In addition to the above research activities, I also serve as the collaborating biostatistician on many projects in various areas of medical research. Among others, I am currently participating in projects investigating osteoporosis, gastroenterological disorders, lupus nephritis, cardiovascular diseases, peanut allergy research, and child vaccination research. On all of the above projects, I am a co-principal investigator or co-investigator on the grants funding the project. In addition, I have been co-director of the Biostatistical Consulting Unit at the Montreal General Hospital since 1989, and have worked on a great number of projects in other areas in this capacity.

G2. Personal Support Awards

1983-1986	Natural Sciences and Engineering Research Council Award	\$24,000
1986-1988	McConnell Fellowship in Science	\$16,000
1989-1992	Montreal General Hospital Foundation Award	\$110,000
1994-1997	FRSQ Chercheur-Boursier	\$120,657
1997-2001	FRSQ Chercheur-Boursier	\$185,392
2001-2006	CIHR Senior Investigator Award	\$350,000
2006-2011	FRSQ Chercheur-Nationale	\$150,000

G3. Grants Obtained

As Principal or Co-Principal Investigator, and Team Grants

1. NSERC – Statistical inference in multi-path change-point problems with applications, Principal Investigator, \$28,500, 1990–1993.
2. The Arthritis Society – Prognosis of systemic lupus erythematosus Co-Principal Investigator, \$340,270, 1991–1995.
3. NHRDP – National Osteoporosis Study-Protocol Development Co-Principal Investigator, \$82,580, 1993–1993.
4. NSERC – Multi-path change-point problems/Bayesian methods in meta-analysis Principal Investigator, \$21,000, 1993–1996.
5. NHRDP – National osteoporosis survey. Co-Principal Investigator, \$672,045, 1993–1995.
6. Procter & Gamble – Canadian multicentred osteoporosis study Co-Principal Investigator, \$100,000 1994–1995.
7. FRSQ – Établissement jeune chercheur (New statistical designs and analysis for commonly occurring medical experiments) Principal Investigator, \$40,000, 1994–1996.
8. FCAR – Change-point problems in statistics Team Grant, \$114,000, 1994–1997.
9. Eli Lilly Canada – Canadian multicentred osteoporosis study Co-Principal Investigator, \$1,000,000, 1994–1999.

10. Merck-Frosst Canada – Canadian multicentred osteoporosis study Co-Principal Investigator, \$1,400,000, 1994–2000.
11. Conseil d'évaluation des technologies de la santé du Québec – Screening for glaucoma: A Monte Carlo sensitivity analysis, Co-Principal Investigator, \$7,333, 1995–1996.
12. The Arthritis Society – Prognosis of systemic lupus erythematosus, Co-Principal Investigator, \$59,980, 1995–1998.
13. NHRDP – Canadian multicentred osteoporosis study, Co-Principal Investigator, \$2,530,000, 1995–1998.
14. MRC-PMAC – Canadian multicentred osteoporosis study, Co-Principal Investigator, \$440,000, 1995–1998.
15. NSERC – Applied Bayesian Biostatistics, Principal Investigator, \$65,600, 1996–2000.
16. The Arthritis Society – Vascular disease in systemic lupus erythematosus, Co-Principal Investigator, \$79,960, 1996–1998.
17. FRSQ – Outcomes research and technology assessment in digestive diseases, Co-Principal Investigator, \$217,500, 1997–2000.
18. FCAR – Statistical analyses of temporally and spatially varying data: change-point problems and brain mapping. Team Grant, \$114,000, 1997–2000.
19. NHRDP – Canadian multicentred osteoporosis study, Co-Principal Investigator, \$255,178.00, 1998.
20. MRC – Canadian multicentred osteoporosis study, Co-Principal Investigator, \$1,909,499, 1998–2002.
21. Canadian Arthritis Network – Statistical inference for ROC curves in the absence of a gold standard test - application to the use of Anti-IgG-AGE antibodies in determining the severity of rheumatologic disease, Principal Investigator, \$23,000, 1999–2000.
22. FCAR - Stations graphiques de travail pour ondelettes, analyse des données fonctionnelles, champs aléatoires et méthodes Bayésiennes pour la cartographie cérébrale, Team Grant, \$30,000, 1999–2000.
23. NSERC – Applied Bayesian Biostatistics, Principal Investigator, \$100,000, 2000–2004.
24. Conseil d'évaluation des technologies de la santé du Québec – Screening for colorectal cancer: A Monte Carlo sensitivity analysis, Principal Investigator, \$15,000, 2000.
25. FCAR – L'analyse statistique des données tempo-relles et spatiales: problèmes de rupture et cartographie cérébrale. Team Grant, \$114,390, 2000–2003.
26. Canadian Arthritis Network – Statistical inference for continuous diagnostic tests in the absence of a perfect gold standard test - application to the use of various laboratory markers in determining the presence and severity of rheumatologic disease, Principal Investigator, \$23,000, 2000–2001.
27. FQRNT (equipment grant) - Methodes statistiques pour donnees spatio-temporelles de cartographie cerebrale: recalage et segmentation, champs aleatoires, analyse des donnees fonctionnelles, ondelettes et analyse de survie. Team Grant \$38,820, 2003–2004.
28. FQRNT - Methodes statistiques pour donnees spatio-temporelles de cartographie cerebrale: recalage et segmentation, champs aleatoires, analyse des donnees fonctionnelles, ondelettes et analyse de survie. Team Grant \$210,000, 2003–2006.
29. NSERC – Applied Bayesian Biostatistics, Principal Investigator, \$170,000, 2004–2009.

30. FQRNT - Inférence bayésienne et fréquentiste pour données spatiotemporelles d'imagerie. Team Grant \$135,000, 2006-2009.
31. FQRNT (equipment grant) - Inférence bayésienne et fréquentiste pour données spatiotemporelles d'imagerie. \$18,585, 2006-2007.
32. NSERC – Applied Bayesian Biostatistics, Principal Investigator, \$190,000, 2009–2014.
33. CIHR - Immediate vs. delayed stenting after primary percutaneous reperfusion in ST elevation myocardial infarction. Co-Principal Investigator, \$211,071, 2013-2016.
34. NSERC – Applied Bayesian Biostatistics, Principal Investigator, \$140,000, 2014–2019.

As Co-Investigator

35. FRSQ – Gallbladder stone lithotripsy versus cholecystectomy: A randomized trial, \$180,000, 1990–1992.
36. AUPELF – Étude sur l'acceptabilité de moustiquaires imprégnées comme moyen de lutte contre la malaria dans le cadre des soins de santé primaires, \$5,800, 1990–1991.
37. AUPELF – L'effet du traitement présomptif et thérapeutique sur le développement de l'immunité à médiation cellulaire contre *P. falciparum* chez les enfants en bas âge en Haïti rurale, \$24,000, 1990–1992.
38. CRDI – Étude sur l'acceptabilité de moustiquaires imprégnées comme moyen de lutte contre la malaria dans le cadre des soins de santé primaire, \$13,350, 1990–1991.
39. WHO – Antimalarial drug utilization by women in Central Ethiopia \$25,000, 1991–1992.
40. The Arthritis Society – Study of diffuse idiopathic skeletal hyperostosis, \$227,400, 1991–1996.
41. FRSQ – Enquête sur les aptitudes des médecins de famille à s'occuper des patients atteints de démence, \$18,133, 1992–1993.
42. FRSQ – Enquête sur les besoins et les attentes du patient dément et de proches par rapport au médecin de famille, \$9,216, 1992–1993.
43. Dairy Bureau of Canada – Dietary modification to prevent cardiovascular disease among Canadians: A cost-effectiveness analysis, \$317,611, 1992–1994.
44. Dairy Farmers of Canada – Modifying specific risk factors to prevent the development of coronary heart disease: A cost-utility analysis incorporating quality of life measurements into the Coronary Heart Disease Prevention Model, \$91,000, 1995–1996.
45. FRSQ – Priority Team in Gastroenterology, \$76,280, 1995–1996.
46. FRSQ – Comparing health care costs & health outcome in patients with systemic lupus erythematosus in Canada, the United States, and the United Kingdom, \$116,614, 1995–1997.
47. NHRDP – Enquête sur les besoins et les attentes du patients dément et des aidants naturels par rapport au médecin de famille, \$213,873, 1995–1997.
48. FRSQ – A prospective cohort study of quality of life after acute myocardial infarction, \$120,000, 1996–1998.

49. Heart and Stroke Foundation – Iron metabolism and coronary artery disease, \$10,000, 1996–1998.
50. FRSQ – Trination Phase II: linking health resource utilization and health care expenditure in patients with systemic lupus erythematosus in three nations - Quebec, United States, and United Kingdom, to health outcomes.
51. NHRDP – Decreasing costs and improving outcomes in chronic disease: A randomized multi-site trial of group psychotherapy for patients with systemic lupus erythematosus. \$200,000 1996–1998.
52. FRSQ – Delays in adjuvant radiotherapy for women with breast cancer: Causes and consequences. \$96,850 1997–1999.
53. The Arthritis Society – A rheumatologic cause of atherosclerosis. \$59,750 (first year, rest TBA) 1997–2000.
54. American Digestive Health foundation / American Society for Gastrointestinal Endoscopy MRCP versus ERCP in the approach to patients with suspected biliary obstruction - a cost-effectiveness trial. \$20,000 (US Dollars) 1999.
55. FRSQ – A retrospective study of the treatment of acute myocardial infarction in Quebec. \$115,432 1999-2001.
56. MRC - MRCP/ERCP: A randomized trial in the management of patients with suspected biliary obstruction. \$255,027 1999-2002.
57. FRSQ - La régionalisation des soins pour traumatismes au Québec; impact sur l'issue pour les patients. \$120,000 2000-2001.
58. FRSQ - Estimation de la prévalence de l'allergie aux arachides chez les écoliers montréalais âgés entre 5 et 8 ans. \$58,405 + \$52,219 2000-2001.
59. MRC - National Evaluation of Trauma Care in Canada. \$220,000 2000-2002.
60. FRSQ – The effectiveness of Helicobacter pylori eradication on gastroesophageal reflux disease: A double blind randomized controlled trial in patients with pyrosis. \$120,000, 2000-2002.
61. CIHR – Pre-cut sphincterotomy versus repeat conventional attempt for failed cannulation at ERCP (endoscopic retrograde cholangio-pancreatography) \$440,219, 2001-2003.
62. CIHR – The prevalence of peanut allergy in Montreal school children ages 5 to 8: A first step in improving its management and potentially preventing its development. \$28,454, 2001–2003.
63. CIHR – The roles of acquired activated protein C resistance and homocysteine in thrombosis observed in human antiphospholipid antibody syndrome. \$224,727, 2001-2005.
64. CIHR – Delays in radiation therapy for cancer: A prospective study. \$271,642, 2002-2004.
65. CIHR - A multi-centre nested case-control study of immunosuppressive agents and malignancy in systemic lupus erythematosus. \$289,335, 2002-2005.
66. CIHR - The role of thrombophilic factors in persons with systemic lupus erythematosus. \$666,456, 2003-2008.
67. CIHR - Zyban as an effective smoking cessation aid for patients following ACS: The ZESCA Trial. \$1,457,900, 2003-2006.

68. CIHR - Estimating the effectiveness of invasive and non-invasive management strategies for acute myocardial infarction using administrative databases. \$64,972, 2004-2006.
69. CIHR - A population-based study of determinants of variation in the management of acute myocardial infarction. \$60,185, 2004-2006.
70. CIHR - Canadian multi-centre osteoporosis study (CaMos). \$4,225,470, 2004 - 2010.
71. CTCRI - The Safety of TrAnSDermal nicotine Immediately following an Acute coronary syndrome (STADIA) Trial: a Pilot Study. \$50,000, 2005-2006.
72. CIHR - A hierarchical Bayesian meta-analysis of randomized clinical trials of smoking cessation aids. \$50,000, 2005-2006.
73. CIHR - An economic and quality of life evaluation of bupropion therapy for smoking cessation in patients following an acute coronary syndrome. \$119,400, 2005-2008.
74. CIHR - Strategies for population-based studies of SLE using administrative data. \$75,000, 2005-2006.
75. CIHR - Exposure to immunosuppressive drugs and cancer risk in systemic lupus erythematosus. \$167,331, 2005-2007.
76. CIHR - Investigation of fluctuations in inflammatory markers in stable subjects across the clinical spectrum of ischemic heart disease. \$240,342, 2005-2008.
77. CIHR - Cox-2 selective inhibitors and cardiovascular outcomes in an elderly population \$219,684, 2005-2007.
78. Allergen - Is the prevalence of peanut allergy increasing? A five year follow-up study on the prevalence of peanut allergy in Montreal school children aged 5 to 9 years. \$96,000, 2005-2007.
79. CIHR - A population-based analysis of the effectiveness and determinants of use of cardiac drugs for congestive heart failure. \$104,358, 2005-2008.
80. CIHR - Evaluating the effectiveness of a guideline to reduce peanut substances from primary school classrooms. \$130,500, 2005-2007.
81. CIHR - Is the prevalence of peanut allergy increasing? A five year follow-up study on the prevalence of peanut allergy in Montreal school children aged 5 to 9 years. \$444,744, 2005-2008.
82. Allergen - The development, implementation, and evaluation of strategies to promote the well-being of children and youth with allergies and/or asthma-programme. \$299,551, 2005-2007.
83. CIHR - Walking behavior and glycemic control in Type 2 Diabetes: Seasonal and sex differences. \$156,241, 2006-2009.
84. CIHR - Administrative Database Research in Rheumatic Diseases: Novel Techniques. \$227,600, 2006-2009.
85. National Cancer Institute of Canada - Development and validation of a method to discern screening from surveillance, diagnostic, and colonoscopy in health administrative databases in three Canadian provinces. \$143,487, 2006-2008.
86. The Arthritis Society- Lymphoma Risk in SLE: A consequence of immune suppression or stimulation. \$413,400, 2006-2009.
87. CCERN - Assessment of histological type and prognosis in lymphoma in SLE. \$27,057, 2006.

88. CIHR - Cardiac outcomes in patients with metabolic syndrome: A systematic review and hierarchical Bayesian meta-analysis. \$112,815, 2007-2009.
89. CTCRI - Pharmacogenetic and Pharmacokinetic Variation in CYP2B6 and the efficacy of Zyban as a smoking cessation aid: A ZESCA trial sub-study. \$50,000 2007-2008.
90. Heart and Stroke Foundation of Quebec - Pharmacogenetic and Pharmacokinetic Variation in CYP2B6 and the efficacy of Zyban as a smoking cessation aid: A ZESCA trial sub-study. \$43,500 2007-2010.
91. CIHR - The efficacy of popular diets: A systematic review and hierarchical Bayesian meta-analysis. \$100,150 2008-2010.
92. FRSQ - Understanding outcomes of colonoscopy. \$196,711, 2008-2011.
93. CIHR - The costs and benefits of screening and treating obesity among Canadians: A critical assessment of the 2006 Canadian obesity guidelines. \$98,866, 2008.
94. McGill Internal Grant - Diabetes, Decreased Energy Intake, and Vitamin D: The Three D Research Program in overweight adults with Type 2 diabetes. \$249,121, 2008-2010.
95. Diabète Québec - Adapting an established Internet-based menu planning system to achieve weight loss and healthy eating in type 2 diabetes: A pilot project with SOS Cuisine. \$20,000, 2009-2010.
96. CIHR - Intervention to improve colorectal cancer screening rates. \$209,825, 2009-2011.
97. National Cancer Institute of Canada - Intervention to improve colorectal cancer screening rates. \$214,797, 2009-2011.
98. Canadian Arthritis Network - Administrative database research in rheumatic diseases: Pediatric populations. \$240,000, 2009-2011.
99. Allergen - Special Populations of Canadians and Influences on Food Allergy. \$531,450, 2009-2012.
100. CIHR - Knowledge Translation: Surveillance of Chronic Rheumatic Diseases Using Administrative Databases. \$14,000, 2010-2010.
101. CIHR - Multiplex screening assays for HIV and co-infections: will they benefit patients, providers and health care systems? \$100,000, 2010-2011.
102. CIHR - The Efficacy of Weight Loss Interventions: A Systematic Review and Hierarchical Bayesian Meta-Analysis. \$100,000, 2010-2011.
103. Heart and Stroke Foundation Canada - The Efficacy of Weight Loss Interventions: A Systematic Review and Hierarchical Bayesian Meta-Analysis. \$20,000, 2010-2011.
104. CIHR - Unconventional Smoking Cessation Aids: A Meta-Analysis of Randomized Controlled Trials. \$67,032, 2010-2011.
105. CIHR - OWN: On-line Wellness Program for New Parents to Be. \$75,635. 2011-2012.
106. CIHR - Step Monitoring to improve ARTERial health (SMARTER). \$461,670. 2011-2014.
107. CIHR - Combining motivational support, meal preparation training, and a tapering course of meal replacements to achieve vascular risk reduction in women with a gestational diabetes history (MoMM). \$99,947. 2011-2012.

108. CIHR - Arthritis in First Nations people in Alberta: Prevalence and health care utilization \$99,200, 2011 - 2014.
109. CIHR - Safety of oral contraceptives: A systematic review and meta-analysis. \$47,250 2012-2013.
110. CIHR - Developing a Web Portal for Health Professionals to Evaluate a Cardio-Metabolic Disease Simulation Model: MyHealthCheckUp.com. \$95,958. 2012-2013.
111. CIHR - Environment, Epigenetics, and Rheumatic Disease, \$100,000, 2012-2013.
112. CIHR - Prevalence and healthcare utilization pattern of children with cerebral palsy in Quebec, \$205,000, 2012-2015.
113. CIHR - Increasing the effectiveness of the Diabetes Prevention Program through if-then plans and mental practice: A parallel randomized trial. \$450,000, 2012-2016.
114. CIHR - Drospirenone-containing combined oral contraceptives and the risk of arterial thrombosis. \$154,530, 2012-2014.
115. CIHR - MEthods of ASsessing blood pressUre: identifying thReshold and target valuEs (MeasureBP). \$97,872, 2012-2013.
116. Heart and Stroke Foundation of Canada - Novel real-time measurement of physical activity patterns in type 2 diabetes and hypertension through GPS monitoring and accelerometry. \$60,000, 2012 - 2015.
117. Drug Safety and Effectiveness Network (DESN) - Adding clarity to uncertainty in the study of drug safety. \$100,000, 2013-2014.
118. ICR - Cancer risk: Advancing knowledge in systemic rheumatic disease. \$100,000, 2013-2014.
119. CIHR - A systematic review and meta-analysis of combination therapies for smoking cessation. \$97,988, 2013-2014.
120. CIHR - Evaluating a multidisciplinary e-health program to promote regular physical activity among individuals at increased risk of cardiovascular disease. \$99,390, 2013-2014.
121. CIHR - IBD Genomic Medicine Consortium (iGenoMed): translating genetic discoveries into a personalized approach to treating the inflammatory bowel diseases. \$9,918,545, 2013-2017.
122. CIHR - Neurodevelopmental disorders in children born to women with systemic lupus erythematosus. \$92,010, 2013-2015.
123. CIHR - The efficacy and safety of smoking cessation interventions in patients with cardiovascular disease: a meta-analysis of randomized controlled trials. \$99,959, 2013-2014.
124. CIHR - The Canadian Health Improvement Network to Upgrade Prevention Services (CHIN-UPS) - Evaluating a Multidisciplinary Health Promotion Program in Community Pharmacies. \$448,245, 2014-2018.
125. CIHR - Evaluation of an HIV self-testing strategy in community clinics for men who have sex with men. \$198,394, 2014-2016.
126. CIHR - Statistical methods to support diagnosis of childhood tuberculosis in the absence of a gold-standard reference. \$351,000, 2014-2017.
127. CIHR - Developing informational and emotional supports for couples undergoing infertility treatment. \$488,208, 2014 - 2017.

128. CIHR - Exploring the Development of Biologically-Weighted Multi-Pollutant Exposure Surfaces for the Evaluation of Air Pollution Health Effects. \$603,177, 2015-2018.
129. Heart and Stroke Foundation - Optimal Revascularization Strategy in Patients Undergoing Aortic Valve Replacement. \$293,098, 2015 - 2018.
130. Technology Networks of Centres of Excellence Program: Evaluation in the Elderly - Essential Frailty Toolset. \$100,000, 2015-2016.
131. Rossy Cancer Network Cancer Quality & Innovation Research Grants Program - The Breast Cancer Healthy Aging Program - Developing an e-health Program to Increase Daily Exercise and Reduce the Fatigue Associated with Breast Cancer Therapy. \$99,671, 2016-2017.

G4. Publications

G4a. Articles in Peer-Reviewed Journals (Asterisks indicate graduate student as first author)

Published:

1. Tannenbaum T, Sampalis JS, Battista RN, Rosenberg EE, **Joseph L**. The early detection and treatment of hyperlipidemia - Physician practices in Canada. *Canadian Medical Association Journal* 1990;143(9):875-881.
2. **Joseph L**, Wolfson C, Wolfson D. Is multiple sclerosis an infectious disease? Inference about an input process based on the output. *Biometrics* 1990;46(2):337-349.
3. **Joseph L**, Wolfson D. Estimating the change in a renewal process when the data are counts. *Communications in Statistics - Simulation and Computation* 1990;19(4):1431-1441.
4. Shenouda G, Souhami L, Freeman C, Hazel J, Lehnert S, **Joseph L**. Accelerated fractionation for high-grade cerebral astrocytomas: Preliminary treatment results. *Cancer* 1991;67:2247-2252.
5. *Poulin C, Gyorkos TW, **Joseph L**. The hepatitis B immunization strategy in Nova Scotia: Is it effective? *Canadian Journal of Public Health* 1992;83(4):286-289.
6. **Joseph L**, Wolfson D. Estimation in multi-path change-point problems. *Communications in Statistics - Theory and Methods* 1992;21(4):897-913.
7. Grover SA, Abrahamowicz M, **Joseph L**, Brewer C, Coupal L, Suissa S. The benefits of treating hyperlipidemia to prevent coronary heart disease: Predicting changes in life expectancy and morbidity. *Journal of the American Medical Association* 1992;267(6):816-822.
8. Lamping D, **Joseph L**, Ryan B, Gilmore N. Détresse psychologique chez les personnes atteintes du VIH á Montréal. *Santé Mentale au Québec* 1992;XVII(1):73-96.
9. *Poulin C, Gyorkos TW, **Joseph L**, Schlech III W, Lee S. An epidemic of hepatitis B among injection drug users in a rural area. *Canadian Journal of Public Health* 1992;83(2):102-105.
10. Barkun JS, Barkun AN, Sampalis JS et al.: **Joseph L**, member of the McGill Gallstone Treatment Group. Randomised controlled trial of laparoscopic versus mini cholecystectomy. *Lancet* 1992;340:1116-1119.

11. *Yeneneh H, Gyorkos TW, **Joseph L**, Pickering J, Tedla S. Antimalarial drug utilization by women in Ethiopia: a knowledge - attitudes - practice study. *Bulletin of the World Health Organization* 1993;71:763-772.
12. *Mata S, Hill R, **Joseph L**, Kaplan P, Dussault R, Watts C, Fitzcharles M, Shiroky J, Fortin PR, Esdaile JM. Chest radiographs as a screening test for diffuse idiopathic skeletal hyperostosis. *The Journal of Rheumatology* 1993;20:1905-10.
13. Esdaile JM, **Joseph L**, MacKenzie T, Kashgarian M, Hayslett JP. The pathenogenesis and prognosis of lupus nephritis: Information from repeat renal biopsy. *Seminars in Arthritis and Rheumatism* 1993;23(2):135-148.
14. **Joseph L**, Wolfson D. Maximum likelihood estimation in the multi-path change-point problem. *Annals of the Institute for Statistical Mathematics* 1993;45(3):511-530.
15. Shenouda G, Labateya M, Souhami L, Donath D, Vuong T, **Joseph L**. Elevated serum cytokines in patients with malignancy and weight loss. *International Journal of Oncology* 1993;2:115-118.
16. *Poulin C, Gyorkos TW, **Joseph L**. Estimation of the secondary attack rate for Delta hepatitis co-infection among infectious drug users. *Canadian Journal of Infectious Diseases* 1993;4(1):47-51.
17. *Raynault MF, Battista RN, **Joseph L**, Fournier L. Motifs d'hospitalisation et durées de séjour d'une population d'itinérants de Montréal. *Canadian Journal of Public Health* 1994;85(4):274-277.
18. Fraenkel L, Mackenzie T, **Joseph L**, Kashgarian M, Hayslett JP, Esdaile JM. Response to treatment as a predictor of longterm outcome in patients with lupus nephritis. *Journal of Rheumatology* 1994;21(11):2052-2057.
19. Esdaile JM, **Joseph L**, Mackenzie T, Kashgarian M, Hayslett JP. The benefit of early treatment with immunosuppressive agents in lupus nephritis. *The Journal of Rheumatology* 1994;21:2046-51.
20. Frenette P, Thirlwell M, Trudeau M, Thomson D, **Joseph L**, Shuster J. The diagnostic value of CA 27-29, CA 15-3 mucin-like carcinoma Antigen, carcinoembryonic antigen and CA 19-9 in breast and gastrointestinal malignancies. *Tumor Biology* 1994;15(5):247-254.
21. Fried G, Barkun J, Sigman H, **Joseph L**, Clas D, Garzon J, Hinchey E, Meakins J. Factors determining conversion to laparotomy in patients undergoing laparoscopic cholecystectomy. *American Journal of Surgery* 1994;167(1):35-9; discussion 39-41.
22. Grover SA, Gray-Donald K, **Joseph L**, Abrahamowicz M, Coupal L. Life expectancy following dietary modification or smoking cessation: estimating the benefits of a prudent lifestyle. *Archives of Internal Medicine* 1994;154:1697-1704.
23. Dongier M, Hill JM, Kealy S, **Joseph L**. Screening for alcoholism in general hospitals. *Canadian Journal of Psychiatry* 1994;39(1):12-20.
24. *Mata S, Wolfe F, **Joseph L**, Esdaile JM. Absence of an association of rheumatoid arthritis and diffuse idiopathic skeletal hyperostosis: A case-control study. *Journal of Rheumatology* 1995;22:2062-2064.
25. Ernst P, Demissie K, **Joseph L**, Locher U, Becklake M. Socioeconomic status and indicators of asthma in children. *American Journal of Respiratory and Critical Care Medicine* 1995;152:570-575.
26. **Joseph L**, Wolfson D, and du Berger R. Sample size calculations for binomial proportions via highest posterior density intervals. *The Statistician* 1995;44(2):143-154.

27. **Joseph L**, Wolfson D, and du Berger R. Some comments on Bayesian sample size determination. *The Statistician* 1995;44:167-171.
28. Grover SA, Lowensteyn I, Esrey KL, Steinert Y, **Joseph L**, Abrahamowicz M. Do doctors accurately assess the coronary risk of their patients? Preliminary results of the coronary health assessment study. *British Medical Journal* 1995;310:975-978.
29. *Brophy J, **Joseph L**. Placing trials in context using Bayesian analysis: GUSTO revisited by reverend Bayes. *Journal of the American Medical Association* 1995;273(11):871-875.
30. **Joseph L**, Gyorkos T, Coupal L. Bayesian estimation of disease prevalence and the parameters of diagnostic tests in the absence of a gold standard. *American Journal of Epidemiology* 1995;141(3):263-272.
31. Esdaile J, **Joseph L**, Abrahamowicz M, Li Y, Danoff D, Clarke A. Routine immunologic tests in systemic lupus erythematosus - Is there a need for more studies? *Journal of Rheumatology* 1996;23(11):1891-1896.
32. **Joseph L**, Gyorkos T. Inferences for likelihood ratios in the absence of a gold standard. *Medical Decision Making* 1996;16(4):412-417.
33. Esdaile JM, Abrahamowicz M, **Joseph L**, Li Y, MacKenzie T, Danoff D. Laboratory tests as predictors of disease exacerbations in systemic lupus erythematosus - Why some tests fail. *Arthritis and Rheumatism* 1996;39:370-378.
34. **Joseph L**, Vandal AC, Wolfson DB. Estimation in the multi-path change-point problem for correlated data. *Canadian Journal of Statistics* 1996;24:37-53.
35. Esrey KL, **Joseph L**, Grover SA. The relationship between dietary intake and coronary heart disease mortality: the lipid research clinics prevalence follow-up study. *Journal of Clinical Epidemiology* 1996;49:211,216.
36. Bouchard S, Barkun A, Barkun J, **Joseph L**. Technology assessment in laparoscopic general surgery and gastrointestinal endoscopy - science or convenience? *Gastroenterology* 1996;110:915-925.
37. Poulin de Courval L, Saroyan A, **Joseph L**, Gauthier S. Les aptitudes des médecins de famille à soigner les patients atteints de démence. *Canadian Family Physician* 1996;21:1496-1502.
38. *Demissie K, Ernst P, Gray-Donald K, **Joseph L**. Usual dietary salt intake and asthma in children: a case-control study. *Thorax* 1996;51(1):59-63.
39. Barkun A, Barkun J, Sampalis J, Caro J, Fried G, Meakins J, **Joseph L**, Goresky C, and the McGill Gallstone Treatment Group. Costs and effectiveness of extracorporeal gallbladder stone shock wave lithotripsy versus laparoscopic cholecystectomy - a randomized clinical trial. *International Journal of Technology Assessment in Health Care* 1997;13(4):589-601.
40. Lowensteyn I, **Joseph L**, Grover S. Who needs an exercise test? Evaluating the new American College of Sports Medicine risk stratification guidelines. *Journal of Cardiopulmonary Rehabilitation* 1997;17:253-260.
41. *Demissie K, Ernst P, **Joseph L**, Becklake MR. Birthweight and preterm birth in relation to indicators of childhood asthma. *Canadian Respiratory Journal* 1997;4(2):91-97.
42. **Joseph L**, Wolfson D, du Berger R, Lyle RM. Analysis of panel data with change-points. *Statistica Sinica* 1997;7(3):687-703.

43. Eason E, Sampalis J, Hemmings R, and **Joseph L**. Povidone-iodine gel vaginal antiseptics for abdominal hysterectomy. *American Journal of Obstetrics and Gynecology* 1997;176(5):1011-1016.
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210. Grandi S, Gervais A, **Joseph L**, O’Loughlin J, Paradis G, Pilote L, Rinfret S, Sarraf-Zadegan N, Sharma S, Eisenberg MJ. High 9-Week Smoking Relapse Rates in Patients Immediately Following an Acute Coronary Syndrome. American Heart Association Annual Meeting, November 12-15, 2006, Chicago, Illinois.
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216. Dasgupta K, **Joseph L**, Pilote L, Chan C, Sigal R, Chan C, Da Costa D, Strachan I, Chanland D, Ross N. Walking associated with neighborhood characteristics in type 2 diabetes. American Diabetes Association 67th Scientific Sessions, June 22-26, 2007, Chicago, Illinois.
217. *Vautour L, Goltzman D, Tenenhouse A, **Joseph L**. Beta-blocker Use, Bone Mineral Density and Fractures in the Canadian Multicentre Osteoporosis Study (CaMos). 17th Annual Meeting of the International Bone and Mineral Society, June 24-29, 2007, Montreal, Quebec.
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219. Grover S, Kaouache M, **Joseph L**. Estimating the risk of developing diabetes: A validated decision aid using Bayesian Model Averaging. 11th Annual CDA/CSEM Professional Conference and Annual Meetings, October 24-27, 2007 Vancouver, BC.
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252. *Wyse J, **Joseph L**, Barkun A, Sewitch M. Use of procedure codes in a physician claims database: a validation study. *2009 Canadian Digestive Diseases Week and Fifth Annual CASL Winter Meeting, February 27 - March 2, 2009, Banff, Alberta.*
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254. Morais J, Pereira S, Chiu W, Turner A, Huang A, Chevalier S, **Joseph L**. Profiling of geriatric day-hospital patients to improve efficiency of its use in frail elders. *Canadian Geriatrics Society Annual Scientific Meeting, April 23- 25, 2009, Toronto, Ontario.*
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256. Tarafder M, Carabin H, **Joseph L**, Cowan L, Wendelboe A, Vesely S, McGarvey S. Impact of measurement error on estimating risk factors for diseases: An example from parasitic infections in the Philippines. *137th APHA Annual Meeting & Exposition, November 7-11, 2009, Philadelphia, PA.*
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264. *Bernatsky S, Lix L, Hanly JG, Hudson M, Badley E, Peschken C, Pineau C, Clarke A, Belisle P, **Joseph L**. The prevalence of systemic autoimmune rheumatic diseases: regional comparisons. ACR/ARHP Annual Meeting, Philadelphia PA, October 17-21, 2009. *Arthritis and Rheumatism* 2009;61(9S): S783.
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283. Sewitch M, Grad R, Pavilanis A, Yaffe M, Roper M, Dawes M, Barkun A, **Joseph L**. Telehealth intervention to increase stool testing in primary care patients. Canadian Public Health Association Annual Meeting, Montreal, Quebec, June 19-22, 2011.
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285. Chow B, Harrington D, Elliott S, Clarke A, Godefroy S, **Joseph L**, St. Pierre Y, Fragapane J, Soller L, Ben-Shoshan M. Eat to live, live to eat: Understanding the effects of food allergen labels on health and well-being. International Medical Geography Symposium), at Durham UK, 10th - 15th July, 2011.
286. Elliott S, Clarke A, Harrington D, Fenton N, Godefroy S, **Joseph L**, St. Pierre Y, Fragapane J, Soller L, Ben-Shoshan M, Pullen, R. The ethics of the hygiene hypothesis: attempts to explain the rise in food allergy among the affluent International Medical Geography Symposium), at Durham UK, 10th - 15th July, 2011.

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291. Tahiri M, et al. Unconventional smoking cessation aids: A meta-analysis of randomized controlled trials. 3rd North American Congress of Epidemiology, June 21-24, 2011, Montreal, Quebec.
292. Pai N, Cajas J, Shivkumar S, Wainberg M, Klein M, **Joseph L**. In women, do non-B clades differentially impact the odds of developing mutations to single dose Nevirapine (sdNVP) for prevention of mother-to-child transmission? A hierarchical Bayesian meta-analysis. 6th International AIDS Society Conference, July 17 to 20, 2011, Rome, Italy.
293. *Dendukuri N, Schiller I, **Joseph L**, Pai M. Bayesian meta-analysis of diagnostic test accuracy in the absence of a gold-standard reference test. 32nd Annual Conference of the International Society for Clinical Biostatistics Ottawa, Canada, August 21-25 2011.
294. *Jafari Y, Peeling R, Shivkumar S, Lambert G, Claessens C, Cajas J, Klein M, **Joseph L**, Pai N., Diagnostic accuracy of rapid point-of-care tests to detect syphilis: a meta-analysis. 19th Annual Meeting of the ISSTD, July - 10-13 2011, Quebec City.
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296. Grandi S, Eisenberg M, Gervais A, **Joseph L**, O'Loughlin J, Paradis G, Rinfret S, Pilote L. Biochemical validation by expired carbon monoxide as an adjunct to self-report for assessment of smoking status in acute myocardial infarction patients. AHA Scientific Sessions, November 12 -16, 2011, Orlando, Florida.
297. *Jiang M, Sewitch M, **Joseph L**. Endoscopist variation in polypectomy rates persists after adjusting for patient colorectal cancer risk factors. 3rd North American Congress of Epidemiology, June 21-24, 2011, Montreal, Quebec.
298. Barnabe C, **Joseph L**, Bélisle P, Labrecque J, Svenson L, Edworthy S, Barr S, Fritzler M, Peschken C, Hemmelgarn B, Bernatsky S. Population-based prevalence estimates of myositis in First Nations relative to non-First Nations Canadians. Annual Scientific Meeting of the American College of Rheumatology, Nov 4 - 11, 2011, Chicago, IL.

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300. Hassaine A, Clarke A, Alizadehfar R, **Joseph L**, Shand G, Ben-Shoshan M. Initial reactions to seafood in children : clinical characteristics and treatment. Annual Meeting of the American Academy of Allergy, Asthma and Immunology, March 2 - 6, 2012, Orlando, Florida.
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302. *Soller L, Ben-Shoshan M, Harrington D, Frapapane J, **Joseph L**, St. Pierre Y, Godefroy S, La Vieille S, Elliott S, Clarke A. Overall prevalence of food allergy in Canada. Annual Meeting of the American Academy of Allergy, Asthma and Immunology, March 2 - 6, 2012, Orlando, Florida.
303. *Filion K, Grandi S, Gervais A, **Joseph L**, O'Loughlin J, Paradis G, Pilote L, Rinfret S, Eisenberg M. Depression and the efficacy of bupropion as a smoking cessation therapy post-myocardial infarction: the ZESCA trial. American Heart Association Epidemiology and Prevention Annual Meeting , March 13-16, 2012, San Diego, California.
304. Grandi S, Filion K, Gervais A, **Joseph L**, O'Loughlin J, Paradis G, Pilote L, Rinfret S, Eisenberg M. The effect of smoking cessation on weight at 12 months in patients post-myocardial infarction. American Heart Association Epidemiology and Prevention Annual Meeting , March 13-16, 2012, San Diego, California.
305. Barnabe C, **Joseph L**, Bélisle P, Labrecque J, Svenson L, Edworthy S, Barr S, Fritzler M, Peschken C, Hemmelgarn B, Bernatsky S. Albertas First Nations community is not at increased risk of inflammatory myopathy: Population-based prevalence estimates using administrative databases. Canadian Rheumatology Association Annual Meeting, March 28-31, 2012, Victoria BC.
306. Shiff N, Johnson N, Schmeling H, **Joseph L**, Miettunen P, Svenson L, Bernatsky S. Prevalence of pediatric systemic autoimmune rheumatic disease in First Nation peoples of Alberta, Canada Canadian Rheumatology Association Annual Meeting, March 28-31, 2012, Victoria BC.
307. Grandi S, Filion K, Gervais A, **Joseph L**, O'Loughlin J, Paradis G, Pilote L, Rinfret S, Eisenberg M. The effect of treatment adherence on smoking abstinence in patients post-acute myocardial infarction. American College of Cardiology 61st Annual Scientific Session, March 24 - 27, 2012, Chicago IL.
308. Windle S, Grandi S, Shimony A, Gervais A, **Joseph L**, O'Loughlin J, Paradis G, Rinfret S, Pilote L, Eisenberg M. Use of medical therapy in patients 12 months post-acute myocardial infarction. American College of Cardiology 61st Annual Scientific Session, March 24 - 27, 2012, Chicago IL.
309. *Romagnuolo J, Dendukuri N, Schiller I, **Joseph L**. Test Performance of EUS for chronic pancreatitis: A meta-analysis using novel Bayesian techniques specifically designed for diseases with imperfect gold standards. Digestive Disease Week, May 19-22 2012, San Diego, CA.
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