

# Curriculum Vitae

**Georges Monette**

Department of Mathematics and Statistics  
York University  
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## Education

- Ph.D. in Statistics at the University of Toronto, October 1980. Supervisor: Prof. D. A. S. Fraser.  
Title: Betting Criteria and Countable Additivity.
- M.Sc. in Statistics at the University of Toronto, January 1976.
- B.Sc. (Honours Mathematics) at the University of Western Ontario, June 1974.

## Academic and administrative appointments

- July 1986 – present: Associate Professor, Department of Mathematics and Statistics, York University.
- July 2006 – June 2009: Director, Statistics Section, Department of Mathematics and Statistics, York University.
- July 2003 – June 2009 Associate Co-ordinator, Statistical Consulting Service, Institute for Social Research, York University.
- July 1998 – June 2002: Associate Director, Institute for Social Research, York University
- July 1998 – June 2002: Coordinator, Statistical Consulting Service, Institute for Social Research, York University.
- July 1996 – June 1998: Associate Co-ordinator, Statistical Consulting Service, Institute for Social Research, York University.
- July 1992 – June 1995: Chair, Department of Mathematics and Statistics, York University.
- July 1990 – June 1992: Director of Undergraduate Programmes in Statistics, Department of Mathematics and Statistics, York University.
- July 1989 – June 1990: Acting Coordinator, Statistical Consulting Service, Institute for Social Research, York University.
- July 1987 – June 1988: Visiting Associate Professor, Department of Statistics, University of Toronto.
- July 1985 – June 1989: Associate Co-ordinator, Statistical Consulting Service, Institute for Social Research, York University.
- July 1982 – June 1986: Assistant Professor, Department of Mathematics, York University.

July 1981 – June 1982: Assistant Professor, Department of Statistics, University of Toronto.  
July 1979 – June 1981: Lecturer, Department of Mathematics, University of Ottawa.  
June 1978 – June 1979: Lecturer, Department of Statistics, University of Toronto.  
Sep. 1975 – June 1978: Teaching assistant and part-time lecturer in the Department of Mathematics, University of Toronto.

### Refereed publications (last 6 years)

1. Christensen, B.K., Colella, B., Inness, E., Hebert, D., Monette, G., Bayley, M., Green, R. E. (2008) "Recovery of Cognitive Function After Traumatic Brain Injury: A Multilevel Analysis of Canadian Outcomes", *Archives of Physical Medicine and Rehabilitation*, **89**, S3-S15.
2. Green, R. E., Colella, B., Christensen, B., Johns, K., Frasca, D., Bayley, M., Monette, G. (2008) "Examining Moderators of Cognitive Recovery Trajectories After Moderate to Severe Traumatic Brain Injury", *Archives of Physical Medicine and Rehabilitation*, **89**, S16-S24.
3. Green, R. E., Colella, B., Hebert, D. A., Bayley, M., Kang, H. S., Till, C., Monette, G. (2008) "Prediction of Return to Productivity After Severe Traumatic Brain Injury: Investigations of Optimal Neuropsychological Tests and Timing of Assessment," *Archives of Physical Medicine and Rehabilitation*, **89**, S51-S60.
4. Grace, S.L., Gravely-Witte, S., Brual, J., Monette, G., Suskin, N., Alter, D.A., Higginson, L., & Stewart, D.E. (2008) "Contribution of Patient and Physician Factors to Cardiac Rehabilitation Enrollment: A Prospective Multi-Level Study," *European Journal of Cardiovascular Prevention & Rehabilitation*, **15**, 548-556.
5. Fox, J., Friendly, M., Monette, G. (2008) "Visualizing hypothesis tests in multivariate linear models: the *heplots* package for R," *Computational Statistics*, (Online First) (<http://www.springerlink.com/content/q7257n74263411h4>).
6. Boritz, T., Hollis-Walker, H., Angus, L. Monette, G.(2008) "An empirical analysis of autobiographical memory specificity subtypes in brief emotion-focused and client-centered treatments of depression," *Psychotherapy Research*, **18** (5), 584-593.
7. Green, R.E.A, Christensen, B., Melo, B., Ngo, L., Monette, G., Bradbury, C. (2008). "Measuring Pre-morbid IQ in Traumatic Brain Injury: An examination of the validity of the Wechsler Test of Adult Reading (WTAR)," *Journal of Clinical and Experimental Neuropsychology*. **30** (2), 163-172.
8. Green, R.E.A, Christensen, B., Melo, B., Monette, G., Bayley, M., Hebert, D., Inness, E., McIlroy, W. (2006). "Is there a trade-off between cognitive and motor recovery after traumatic brain injury due to competition for limited neural resources?" *Brain and Cognition*. **60** (2), 199-201.
9. Strohschein, L.A., McDonough, P., Monette, G. & Shao, Q. (2005). "Marital transitions and mental health: Are there gender differences in the short term effects of marital status change?" *Social Science and Medicine*, **61**, 2293-2303.
10. Fox, J., Stine, R., Monette G. and Vohra, N. (2002). "Detecting clusters and nonlinearity

in three-dimensional dynamic graphs," *Journal of Computational and Graphical Statistics*, **11**, 875-895.

### **Refereed Abstracts and conference proceedings (last 6 years):**

1. Fox, J., Friendly, M., Monette, G. (2007) "Visualizing Hypothesis Tests in Multivariate Linear Models: The heplots Package for R," *Directions in Statistical Computing 2007*, New Zealand.
2. Green, R.E.A, Christensen, B., Melo, B., Monette, G., Bayley, M., Hebert, D., Inness, E., McIlroy, W. (in press). "Is there a trade-off between cognitive and motor recovery after traumatic brain injury due to competition for limited neural resources?" *Journal of the International Neuropsychological Society*.
3. Christensen, B., Green, R.E.A, Melo, B., and Monette, G. (in press). "Competition between cognitive and Motor Recovery after Traumatic Brain Injury." *Journal of the International Neuropsychological Society*
4. Green, R.E.A., Melo, B., Christensen, B., Monette, G., Bayley, M., Hebert, D., Inness, E., McIlroy, W. (in press). "Some new ideas about cognitive and motor recovery after traumatic brain injury." *Symposium, International Neuropsychological Society*.

### **Other publications (last 6 years)**

1. Fox, J., Friendly, M, and Monette, G. (2004). "The York University Statistical Consulting Service," *Consultant's Forum*, Gail Butler, ed., *SSC Liaison*, 18, no. 2, 36-42.

### **Invited academic talks and addresses (last 6 years)**

1. Monette, G. (2008) "Pine Trees, Comas and Migraines, Asymptotic functions of time," *Summer Programme in Data Analysis, SSHRC and Statistics Canada*, June 2008
2. Monette, G. (2007) "Lies, Damned Lies and Statistics," *ISOMA Conference*, November 2007
3. Monette, G. (2007) "Pine Trees, Comas and Migraines, Asymptotic functions of time," *Summer Programme in Data Analysis, SSHRC and Statistics Canada*, June 2007
4. Fox, J., Friendly, M., Monette, G. (2007) "Visualizing Hypothesis Tests in Multivariate Linear Models: The heplots Package for R," *Directions in Statistical Computing 2007*, New Zealand.
5. Green, R.E.A., Melo, B., Christensen, B., Monette, G., Bayley, M., Hebert, D., Inness, E., McIlroy, W. (2005). *Some new ideas about cognitive and motor recovery after traumatic brain injury. Symposium, International Neuropsychological Society. Dublin Ireland, July 2005*
6. Christensen, B. , Green, R.E.A., Melo, B., and Monette, G. (2005). *Competition between cognitive and Motor Recovery after Traumatic brain Injury. International*

Neuropsychological Society, Dublin, Ireland, July 2005

7. Monette, G. (2005). "Pine Trees, Comas and Migraines, Asymptotic functions of time," Summer Programme in Data Analysis, SSHRC and Statistics Canada: May 2005
8. Monette, G. (2004). "Longitudinal mixed models for clinical data: some case studies," Sunnybrook and Women's Clinical Epidemiology Unit and Institute for Clinical Evaluative Sciences (CEU/ICES) - Conjoint Evaluative Sciences Rounds, October 2004.
9. Monette, G. (2004). "Longitudinal mixed models for clinical data: some case studies," Sick Kicks Population Health Sciences Rounds, April 2004.
10. Monette, G. (2004). "Some Practical Issues Applying Mixed Longitudinal Models," Toronto Area Biostatistics Association, March 2004
11. Monette, G. (2003). "Pine Trees, Comas and Migraines: Asymptotic Regression in Time," Summer Programme in Data Analysis, SSHRC and Statistics Canada, June 2003

### **Contributed papers (last 6 years)**

1. Monette, G. and Fox, J. (2009) A Framework for Hypothesis Tests in Statistical Models With Linear Predictors, Paper presented at the useR 2009 Conference in Rennes, France
2. Green, R.E.A., Christensen, B., Hebert, D., Monette, G., Bayley, M., Hebert, D., Inness, E., McIlroy, W. (2003). The Traumatic Brain Injury Recovery Study at Toronto Rehab: Natural history and mechanisms of cognitive and motor recovery following traumatic brain injury. Paper presented at the GTA Rehab Network's Best Practices Day, February 2003.
3. Strohschein, L., McDonough, P., Monette, G., Shao, Q., Gender, marital status and psychological distress: evidence from the Canadian National Population Health Survey. Presented at "International Conference of Women's Health Issues", 12 June – 16 June, 2003, University of Victoria, Victoria, B.C. Canada.
4. McDonough, P., Strohschein, L., Ansara, D., Monette, G., Shao, Q., Gender and Distress: Aging and Social change. Presented at "Canadian Population Society Annual Conference", 31 May – 5 June, 2003, Dalhousie University, Halifax, N.S. Canada

### **Short courses and workshops (last 6 years)**

1. Summer Programme in Data Analysis: Mixed Models for Longitudinal Data Analysis, York University, June 2009
2. Hierarchical and Longitudinal Data Analysis with Mixed Models, Institute for Social Research, January 2009
3. Hierarchical and Longitudinal Data Analysis with Mixed Models, Institute for Social Research, October 2007
4. Longitudinal Data Analysis with Mixed Models: A Graphical Overview, Workshop on Longitudinal Data Analysis, SSC Southern Ontario Regional Association and Toronto Area Biostatistics Association, SAS Institute, May 2007
5. Hierarchical and Longitudinal Data Analysis with Mixed Models, Institute for Social

Research, February 2007

6. Repeated Measures and Beyond: Longitudinal Data Analysis with Mixed Models, Institute for Social Research, February 2006
7. Repeated Measures and Beyond: Longitudinal Data Analysis with Mixed Models, Institute for Social Research, March 2005
8. Introduction to Longitudinal and Hierarchical Models, Summer Programme in Data Analysis, SSHRC and Statistics Canada, June 2004

## **Grants (last 6 years)**

May 2008 to April 2010: SSHRC/Statistics Canada: Canadian Initiative on Social Statistics Data Training School (Principal applicant: M. Ornstein), \$150,000.

May 1 2008 to April 30, 2011, Canadian Institutes for Health Research, Operating Grant, "Cognitive and Motor recovery following traumatic brain injury: Investigations of novel mechanisms and outcome predictors - Phase 2," \$388,230, (Principal investigators: : R. Green, D. Mikulis)

January 1, 2007 to December 31, 2008, Schizophrenia Society of Ontario, Clinical Trials, "A Randomized Controlled Trial of Cognitive Behavior Therapy for Psychosis," \$100,000, (Principal investigator: J. Addington)

March 1, 2007 to March 1, 2009, Canadian Institutes for Health Research, Operating Grant, "Nurse scheduling and patient safety outcomes," \$161,852 (Principal investigator: L. McGillis-Hall)

October 2006 to October 2009, Ontario Neurotrauma Foundation, "Prevalence and Consequences of Traumatic Brain Injury in People with Spinal Cord Injury," \$148,000, (Principal investigator: R. Green)

January 2006 to December 2007, Physicians' Services Incorporated Foundation, "Are initial gains in cognitive recovery maintained in the long term? Prevalence, risk factors and neural correlates of post-recovery cognitive decline in traumatic brain injury." \$156,000, (Principal applicants: R. Green, D. Mikulis)

May 2005 to April 2008: SSHRC/Statistics Canada: Canadian Initiative on Social Statistics Data Training School (Principal applicant: M. Ornstein), \$150,000.

March 1, 2004 to March 1, 2006, Canadian Institutes of Health Research, Operating Grant, "Natural History and mechanisms of cognitive versus motor recovery following TBI, a prospective longitudinal study," \$139,892 (Principal applicant: R. Green)

October 1, 2001 to May 1, 2003, Networks of Centres of Excellence, \$90,000, operating grant, co-applicant, 4 applicants.

March 2004 to March 2006: Canadian Institutes of Health Research operating grant: Natural History and mechanisms of cognitive versus motor recovery following TBI, a prospective longitudinal study. (Principal Investigator: R. Green, Toronto Rehabilitation Institute), \$139,892.

May 2002 to April 2005: SSHRC/Statistics Canada: Canadian Initiative on Social Statistics Data Training School (Principal applicant: M. Ornstein), \$150,000.

March 2002 to April 2007: Canadian Institutes of Health Research: Institute of Gender and Health: New Emerging Team Program: Preventing violence in the lives of girls and women: A focus on relationships. (Collaborator. Principal Investigator: D. Pepler). \$223,000 per year.

October 2001 to May 2003: Canadian Institute for Health Information: Canadian Population Health Initiative: A Life Course Approach to the Social Determinants of Health (Principal Investigator: P. McDonough, University of Toronto), \$112,125. (sub-grant to York University: \$38,280)

### **Supervisory committees (last 6 years)**

1. Heather Krause, M.A. Survey paper. "Longitudinal data analysis of execution rates in Great Britain, 1700 to 1900. (supervisor) December 2009.
2. Yan Yan Wu, Ph.D. Statistics, "Higher-order asymptotics for mixed models", current.
3. Noah Wayne, M.A. Kinesiology, "Longitudinal analysis of smoking in the U.S." current.
4. Mark Podolsky, Ph. D. Business, DeGroot School of Business, McMaster University. current.
5. Lily Moshe, Ph. D., Mathematics, current. "How Mathematicians Use Visual Reasoning",
6. Gail Kunkel, Ph. D., Psychology, current: "Analysis of distress over the life-course and in pregnancy", current
7. Ernest Kwan, Ph.D. Psychology. April 2008. "Improving Factor Analysis in Psychology: Innovations Based on the Null Hypothesis Significance Testing Controversy."
8. Tao Sun, Ph. D. October 2008. "Modelling Multivariate Rainfall Data with Autocorrelated Discrete-Continuous Mixture Margins Using Copulas."
9. Ye Sun, Ph.D., Statistics, August 2007, "Higher Order Likelihood Inference for a General Statistical Model."
10. Laura Adams, Masters Thesis, Psychology, December, 2005. "Social Learning Behaviour in Orangutans."
11. Laurie Hollis-Walker, Masters Thesis, Psychology, "Landscapes of Consciousness and Action: Hierarchical Linear Model and Analysis of Emotional Arousal, Narrative Processing and Autobiographical Memory Specificity in The York-I Depression Study," Sept. 2003 to Dec. 2005
12. Qing Shao, Ph. D. Thesis, Mathematics and Statistics: "Estimating the Number of Clusters in Regression Clustering," June 2004.

### **Other professional activities (last 6 years)**

- President, 2009-2011, Southern Ontario Regional Association (SORA) of the Statistical Society of Canada
- Statistical Society of Canada: Mentoring of A. Stat.

### **Professional affiliations (current)**

- Statistical Society of Canada
- Toronto Area Biostatistics Association
- American Statistical Association

### **Academic awards, fellowships, professional designations (last 6 years)**

P. Stat., Statistical Society of Canada, 2005.

Updated: August 2009