

Curriculum Vitæ – Erica E. M. Moodie

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A. IDENTIFICATION

Name: Erica Eleanor Margret Moodie
Address: Department of Epidemiology, Biostatistics, and Occupational Health
McGill University
Purvis Hall, Room 38B
1020 Pine Avenue West
Montreal, Quebec H3A 1A2

Telephone: (514) 398-5520

Fax: (514) 398-4503

Email: erica.moodie@mcgill.ca

Homepage: www.med.mcgill.ca/epidemiology/moodie

Citizenship: Canadian

Languages: English, French

B. EDUCATION

- 2006 Ph.D. (Biostatistics)
University of Washington, Seattle WA, USA
Ph.D. thesis title: Inference for optimal dynamic treatment regimes.
Outstanding Student Award
Graduate School Merit Fellowship
Merck Graduate Fellowship
NSERC PGS-B, declined
- 2004 Master of Science (Biostatistics)
University of Washington, Seattle WA, USA
- 2001 Master of Philosophy (Epidemiology)
Cambridge University, UK
M.Phil. thesis title: Modelling techniques for missing data:
Intensive case-management versus standard case-management for severe psychosis.
Commonwealth Fellowship
NSERC PGS-A, declined

- 2000 Bachelor of Arts (Mathematics and Statistics double-major)
 University of Winnipeg, Winnipeg MB
 Gold Medal in Statistics
 Fessenden-Trott Scholarship
 Women in Engineering and Sciences Fellowship (National Research Council)
 Chancellor's Special Entrance Scholarship
 Isbister Undergraduate Scholarship
 Robert P. Purves Scholarship
 Academic Proficiency Undergraduate Scholarship (1998 and 1999)
 Professor Gunter Weiss Scholarship in Statistics
- 1997 International Baccalaureate Diploma
 Kelvin High School, Winnipeg MB
 Graduated in the top 1% world-wide, scoring 43 out of a possible 45 points
 Governor General's Academic Medal (Bronze: Secondary School level)

C. APPOINTMENTS

- 2012-present Associate Professor, Department of Epidemiology, Biostatistics,
 and Occupational Health, McGill University
- 2012-present Associate Member, Department of Mathematics and Statistics, McGill University
- 2006-2012 Assistant Professor, Department of Epidemiology, Biostatistics,
 and Occupational Health, McGill University

D. SPECIAL HONOURS, AWARDS, RECOGNITION

Career Awards

- 2006-2011 NSERC University Faculty Award \$200,000
 Due to maternity leaves, this award covered the period 2006-2013.
- 2013-2017 Fonds de recherche du Québec - Santé (FRQ-S) Chercheur-Boursier, Junior 2 \$256,943

Recognition

- 2015- William Dawson Scholar, McGill University
- 2015 Elected Member, International Statistical Institute

E. TEACHING

E1. Graduate Courses

Department of Epidemiology and Biostatistics, McGill University

| Year | Course title | Course no. | In-class hours | Credits | No. students |
|------|---|------------|----------------|---------|--------------|
| 2007 | Advanced Generalized Linear Models: Correlated Data | BIOS 612 | 30 | 4 | 4 |
| 2007 | Principles of Inferential Statistics | EPIB 607 | 39 | 4 | 21 |
| 2008 | Principles of Inferential Statistics | EPIB 607 | 39 | 4 | 29 |
| 2009 | Advanced Generalized Linear Models: Correlated Data | BIOS 612 | 30 | 4 | 5 |
| 2010 | Principles of Inferential Statistics | EPIB 607 | 39 | 4 | 27 |
| 2010 | Advanced Generalized Linear Models: Correlated Data | BIOS 612 | 30 | 4 | 10 |
| 2012 | Principles of Inferential Statistics | EPIB 607 | 39 | 4 | 40 |
| 2013 | Advanced Generalized Linear Models: Correlated Data | BIOS 612 | 39 | 4 | 10 |
| 2015 | Advanced Generalized Linear Models: Correlated Data | BIOS 612 | 39 | 4 | 10 |
| 2016 | Epidemiology Regression Models II | BIOS 602 | 39 | 4 | 10 |

Elsewhere

| Year | Course Title | Location | In-class hours | No. Students |
|------|---------------------------|-------------------------|----------------|--------------|
| 2014 | Longitudinal Data Methods | Imperial College London | 15 | 17 |

E2. Short Courses and Tutorials

| Year | Course Title | Location | In-class hours | No. Students |
|------|--|--|----------------|--------------|
| 2014 | Personalized Medicine: Dynamic Treatment Regimes | U. of Washington | 3 | 9 |
| 2014 | Statistical Methods for Dynamic Treatment Regimes | Deming Conference | 3 | 50 |
| 2015 | Marginal Structural Models | Fields Institute | 3.5 | 25 |
| 2015 | Dynamic Treatment Regimes, Sequentially Randomized Trials, and Causal Inference | Joint Statistical Meetings | 4 | 16 |
| 2015 | Statistical Methods for Tailoring Treatment to Patients (co-taught with M. Kosorok and E. Laber) | Joint Statistical Meetings | 1.5 | ~300 |
| 2016 | Introduction to Causal Inference: Philosophy, Framework, and Key Methods | Universidade Federal do Rio de Janeiro | 6 | ~20 |
| 2016 | Introduction to Causal Inference using the Propensity Score (co-taught with D. Stephens) | U. of Toronto | 5 | ~100 |
| 2016 | Introduction to Causal Inference: Philosophy, Framework, and Key Methods | U. of Calgary | 6 | ~150 |

E3. Research Trainees Supervised **Indicates that I was the primary or sole supervisor.*

Post-doctoral trainee supervision

- 2009-2011 *Michael Regier (Co-supervisor: Robert Platt)
2011-2013 *Olli Saarela (Co-supervisor: David Stephens)
Finnish Foundation for Technology Promotion (40,000Euros)
2012-2013 Ashley Naimi (Co-supervisor: Jay Kaufman)
FRSQ post-doctoral award (\$30,000/year, two years)
Society for Epidemiologic Researchs Lilienfeld Postdoctoral
Prize Paper Award
2013-2016 *Michael Wallace (Co-supervisor 2014-2016: David Stephens)
Thomas R. Ten Have Award at the Atlantic Causal Inference meeting (2014)
CAN-AIM DSEN Fellowship (\$13,000)
SSC Biostatistics Section Travel Award (\$250)

Graduate students: Doctoral degree supervision

- 2000-2009 *Sheila McDonald, Ph.D. Epidemiology (Co-supervisor: John Lynch)
CIHR Doctoral Award; (\$20,000/year, three years)
2006-2012 Yongling Xiao, Ph.D. Biostatistics (Co-supervisor: Michal Abrahamowicz)
Graduate Research Enhancement and Travel Award (\$1000)
2006-2013 *Benjamin Rich, Ph.D. Biostatistics (Co-supervisor: David Stephens)
NSERC CGS-D3 (\$21,000/year, three years)
2009-2013 *Mireille Schnitzer, Ph.D. Biostatistics (Co-supervisor: Robert Platt)
NSERC CGS-D3 (\$35,000/year, three years)
Canadian Scleroderma Research Group (CSRG) mentorship program (\$3,500)
Statistics Society of Canada Travel Award (\$500)
Statistics Society of Canada Case Studies Award (\$500)
FQRNT bourse de stage international (\$7,500)
Graduate Program for International Travel Award (\$950)
Statistics underpinning Science, Technology and Industry Travel Award (£300)
Graduate Research Enhancement and Travel Award (\$500)
2010-2015 *Alex Bliu, Ph.D. Biostatistics (Co-supervisor: James Hanley)
2011-2015 *Ethan Gough, Ph.D. Epidemiology (Co-supervisor: Ameer Manges, UBC)
Vanier Canada Graduate Scholarship (\$50,000/year, three years)
Graduate Research Enhancement and Travel Award (\$1000)
2011-2015 Laurence Brunet, Ph.D. Epidemiology (Co-supervisor: Marina Klein)
FRQS doctoral award (\$20,000/year, three years)
Young Investigator Award, Canadian Association for HIV Research (\$1000)
Young Investigator Award, Conference on Retroviruses and Opportunistic Infections
Graduate Research Enhancement and Travel Award (\$1000)
Best presentation, Journée des étudiants du réseau sida et maladies
infectieuses du FRQ-S

- 2011- *Nabila Parveen, Ph.D. Biostatistics
McGill University Faculty of Medicine Graduate Scholarship (\$12,000/year, one year)
- 2012- *Gillian Ainsworth, Ph.D. Biostatistics (Co-supervisor: Abbas Khalili)
Graduate Research Enhancement and Travel Award (\$500)
- 2012- Carmine Rossi, Ph.D. Epidemiology (Co-supervisor: Marina Klein)
CIHR Doctoral Research Award (\$30,000/year, three years)
FRQS Doctoral Research Award (\$20,000/year, three years), declined
New Investigator Award, Canadian Association of HIV Research (\$1000)
Conference on Retroviruses and Opportunistic Infections (CROI), Young
Investigator Award
Institute Community Support Travel Award, CIHR
- 2012- Ryan Kyle, Ph.D. Epidemiology (Co-supervisor: Michal Abrahamowicz)
McGill University Faculty of Medicine Graduate Scholarship (\$12,000/year, one year)
SSC Biostatistics Section Travel Award (\$250)
- 2013- Taylor McLinden, Ph.D. Epidemiology (Co-supervisor: Joseph Cox)
McGill University Faculty of Medicine Graduate Scholarship (\$12,000/year, one year)
Canadian HIV Observational Cohort (CANOC) Centre Doctoral Scholarship
(\$21,500/year, one year)
- 2014- Hiroshi Mamiya, Ph.D. Epidemiology (Co-supervisor: David Buckeridge)
McGill University Faculty of Medicine Graduate Scholarship (\$12,000/year, two years)
Institute Community Support Travel Award, CIHR
- 2015- *Gabrielle Simoneau, Ph.D. Biostatistics (Co-supervisor: Robert Platt)
FRQNT Doctoral Research Award (\$20,000/year, three years)
- 2016- Janie Coulombe, Ph.D. Biostatistics (Co-supervisor: Robert Platt)

Graduate students: Master's degree supervision

- 2007-2009 *Piotr Biernot, M.Sc. Biostatistics
NSERC CGS-M (\$17,300/year, two years)
Statistics Society of Canada Travel Award (\$500)
- 2008-2010 Julia Thorpe, M.Sc. Epidemiology (Co-supervisor: Marina Klein)
National CIHR Research Training Program in Hepatitis C Fellowship (\$17,850)
Best Clinical Science Presentation, 2010 Annual National CIHR Research
Training Program in Hepatitis C Meeting (\$500)
First Place Honours, Oral Presentation Competition of the 2010 Department
of Epidemiology, Biostatistics and Occupational Health Research Day (\$100)
Young Investigator Award, 17th Annual Conference on Retroviruses and
Opportunistic Infections
- 2010-2011 Niamh Higgins, M.Sc. Epidemiology (Co-supervisor: Marina Klein)
CIHR Canadian Observational Cohort (CANOC) Collaboration Trainee Award (\$21,500)
Canadian Medical Protective Association grant (\$32,040)
Réseau de recherche en santé des populations du Québec: Prix étudiant 2012,
thèse de Maîtrise (\$1,000)
- 2010-2012 Julie Héroux, M.Sc. Biostatistics (Co-supervisor: Erin Strumpf)
First Place Honours, Poster Presentation Competition of the 2012 Department

of Epidemiology, Biostatistics and Occupational Health Research Day (\$100)

2010-2012 *Nassim Mojaverian, M.Sc. Biostatistics

2012-2015 *Elizabeth Krakow, M.Sc. Epidemiology

2014-2016 *Yuxin Fan, M.Sc. Biostatistics

2015-2016 Hao Zhang, M.Sc. Biostatistics (Co-supervisor: David Stephens)

2015- *Shouao Wang, M.Sc. Biostatistics (Co-supervisor: David Stephens)

Undergraduate trainee supervision

2010 *Mathieu Bray

2011 *Julie Novak

2012 *Yue Ru Sun

2016 *Lara Mayeleff

Institut des sciences mathématiques (ISM) Undergraduate Summer Research
Scholarship, \$3,750

Thesis committee member

2010-2016 Sathya Karunanathan, Ph.D. Epidemiology (Supervisor: Christina Wolfson)

2015-2017 Alexander Levis, M.Sc. Biostatistics (Supervisor: Robert Platt)

Other supervision

2016-2017 Celine Cardoso Almeida-Brasil, Ph.D. in Medications and Pharmaceutical Assistance
at Universidade Federal de Minas Gerais, Brazil (visiting student, one year)

Research Assistant supervision

2012 *Yue Ru Sun

2013-2014 *Jamie Karran

2016 *Shomoita Alam

F. Other Contributions

F1. Journals

Journal Editorships

2009 Guest Editor, *International Journal of Biostatistics*

2009-2013 Associate Editor, *International Journal of Biostatistics*

2011 Guest Editor, *Statistical Communications in Infectious Diseases*

2011-2013 Associate Editor, *Journal of Causal Inference*

2013- Associate Editor, *Biometrics*

2014- Associate Editor, *Journal of the American Statistical Association, Theory & Methods*

Reviewer of Journal Articles

Annals of Statistics, Annals of Operations Research, American Journal of Epidemiology, American Journal of Nephrology, Biometrics, Biometrika, Biostatistics, Canadian Journal of Public Health, The Canadian Journal of Statistics, Clinical Trials, Computer Methods and Programs in Biomedicine, Epidemiology, International Journal of Biostatistics, International Journal of Eating Disorders, International Journal of Epidemiology, International Journal of Public Health, Journal of the American Statistical Association, Journal of Clinical Epidemiology, Journal of the Royal Statistical Society, Lifetime Data Analysis, Neuroimage, Public Library of Science - Medicine, Statistics in Biosciences, Statistics in Medicine, Statistica Sinica

Reviewer of Book Proposals and Chapters

- 2008 Applied Longitudinal Analysis (2nd Edition) by G. Fitzmaurice, N. Laird and J. Ware.
Book proposal reviewed for Wiley & Sons.
- 2009 Analysis of Observational Health-Care Data using SAS Software by D. E. Faries et al.
Chapter “Applying the Propensity Adjustment for Longitudinal Observational Treatment Effectiveness Analyses” by A. C. Leon, D. Hedeker, and C. Li reviewed for SAS Press.
- 2012 Book proposal reviewed for Chapman & Hall.
- 2013 Committee of Presidents of Statistical Societies (COPSS) 50th anniversary book project
Chapter “Statistics and public health research” by Ross Prentice.
- 2016 Getting SMART about Adaptive Interventions: Case Studies in the Behavioral, BioBehavioral and Educational Sciences by D. Almirall, I. Nahum-Shani and S. A. Murphy. Book proposal reviewed for CRC Press.

F2. Grant Reviews

Reviewer for Granting Agencies

- 2009-2011, 2016 NSERC (Natural Sciences and Engineering Research Council): Discovery Grants
- 2009 MITACS (Mathematics of Information Technology and Complex Systems): Networks & Training Initiative
- 2012 The Netherlands Organisation for Health Research and Development (ZonMw): Health Technology Assessment Methodology Grants
- 2012 Israel Science Foundation
- 2013 French National Research Agency
- 2013, 2016 Medical Research Council (United Kingdom)
- 2015 Flanders Research Foundation (FWO, Belgium)

Panel Member of Review Committees

- 2010, 2013 CIHR (Canadian Institutes of Health Research): Public, Community & Population Health Operating Grant
- 2011-2013 CIHR: Meetings, Planning and Dissemination Grant
- 2013-2015 NSERC: Discovery Grants

F3. Administrative Responsibilities and Committees

Department of Epidemiology, Biostatistics, and Occupational Health

- 2006-2007 Member, Epidemiology Ph.D. Program Committee
- 2006-2008 Member, Epidemiology M.Sc. Program Committee
- 2007- Member, Biostatistics Programs Committee
- 2007- Member, Biostatistics Admissions Committee
- 2007-2009 Chair, Biostatistics Applied Exam Committee
- 2008-2010, 2014- Organizer, Biostatistics Seminar Series
- 2011- Director, Biostatistics Graduate Programs
- 2012-2014 Member, Departmental Tenure Committee
- 2012-2013 Member, Recruitment Committee (Biostatistics)
- 2013 Member, Appointments Committee
- 2012- Chair, Biostatistics Theory Exam Committee
- 2014-2015 Chair, Recruitment Committee (Biostatistics)
- 2015-2016 Member, Recruitment Committee (Biostatistics)
- 2015- Chair, Biostatistics Internship Program Development

In 2010, I established the Biostatistics Educational Activities Fund to support the activities of our department for the expansion of our students' (bio)statistical education. The funds primarily serve activities such as the Biostatistics seminar series and workshops.

McGill University

- 2010-2012 Member, Faculty of Medicine Postgraduate Awards Committee (PGAC)
- 2013 Member, Recruitment Committee (Obstetrics and Gynecology)
- 2013 Pro-dean (thesis examination) on two occasions
- 2015 Pro-dean (thesis examination) on two occasions

National and International

- 2008-2013 Member, Bilingualism Committee, Statistical Society of Canada

2009-2014 Member, Elections Committee, Statistical Society of Canada
 2012 Doctoral Thesis Examiner, University of Ghent, Statistical Data Analysis Program
 2013-2015 Member, Biostatistics Section Elections Committee, Statistical Society of Canada (SSC)
 2013-2016 Co-chair, Causal Inference Topic Group for STRengthening Analytical Thinking for
 Observational Studies (STRATOS), an initiative launched by the International
 Society for Clinical Biostatistics to improve analyses of observational data
 2014-2018 Statistics Representative, Scientific Committee of the Centre de Recherches
 Mathématiques (CRM)
 2014-2017 Statistical Society of Canada (SSC) Representative to the CRM
 2015 Doctoral Thesis Examiner, Université du Québec à Montréal, Department of Mathematics
 2015-2018 Regional Associate Director (Quebec) of the Canadian Statistical Sciences Institute (CANSSI)
 2015-2018 Member, Nominating Committee for the Scientific Advisory Committee of CANSSI
 2016-2017 Scientific Program Chair, Statistical Society of Canada 2017 Annual Meeting
 2016 Doctoral Thesis Examiner, Université Paris Ouest Nanterre, Mathematics Department
 2016- Steering Group, Causal Inference Topic Group for (STRATOS)

F4. Professional Associations

2004- Royal Statistical Society
 2005-2007 Western North American Region of the International Biometrics Society
 2006- Statistical Society of Canada
 2007- Eastern North American Region of the International Biometrics Society
 2009- Centre de recherches mathématiques (regular member)

G. RESEARCH

G1. Research Activities

My primary research interest lies in the intersection of longitudinal data methods and causal inference, with particular focus on dynamic (or adaptive) treatment regimes. My research programme currently focuses on three topics in biostatistics: dynamic treatment regimes, “imperfect” data in longitudinal studies (missingness, measurement error), and statistical methods for HIV research. Within the substantive area of HIV, I am involved in the investigation of various aspects of treatment and lifestyle exposures in HIV-positive populations, including men who have sex with men in Montreal and Canadians who are co-infected with the Hepatitis C virus.

G2. Grants Obtained

*As Principal Investigator: Title, total (years). *Indicates sole investigator/applicant.*

1. Pacific Institute for the Mathematical Sciences (PIMS) Workshop Grant – Statistical causal inference and its applications to genetics, \$2,000 (2016). Co-organizers: Robin Evans (University of Oxford), Chris Holmes (University of Oxford), Marloes Maathuis (ETH Zürich), Ilya Shpitser (University of Southampton), David Stephens (McGill University) and Caroline Uhler (IST Austria).
2. CANSSI Workshop Grant – Statistical causal inference and its applications to genetics, \$25,000 (2016). Co-organizers: Robin Evans (University of Oxford), Chris Holmes (University of Oxford), Marloes Maathuis (ETH Zürich), Ilya Shpitser (University of Southampton), David Stephens (McGill University) and Caroline Uhler (IST Austria).
3. *NSERC Discovery Grant – A new framework for estimation and inference of optimal dynamic treatment regimes, \$140,000 (2014–2019).
4. CIHR Operating Grant – Assessing time-varying drug exposures in the Canadian Co-infection Cohort: Methodological tools to address missing data and measurement error, \$263,949 (2013–2017). Co-investigators (McGill University): David Stephens, Marina Klein, James Hanley.
5. Quebec Population Health Research Network Book-writing Grant – Dynamic treatment regimes for personalized medicine, \$5,000 (2011). Co-investigator: Bibhas Chakraborty (Columbia University).
6. CIHR Meetings, Planning and Dissemination Grants – Causal inference in health research, \$10,410 (2011). Co-organizers (McGill University): Jay Kaufman, Robert Platt.
7. *MITACS Networks and Training Program – Causal inference in health research, \$15,000 (2011).
8. *NSERC Discovery Grant – Optimal adaptive treatment strategies: Finding practical solutions to inferential challenges, \$80,000 (2009–2014).
9. CIHR Operating Grant – Statistical methods for causal inference in longitudinal studies with non-compliance and missing data, \$285,177 (2008–2011). Co-investigators (McGill University): Michael Kramer, Robert Platt, Samy Suissa.
10. *NSERC Discovery Grant – Optimal dynamic treatment regimes: extending the framework, \$36,000 (2006–2009).
11. McGill University Start-up Grant, \$50,000 (2006).

As Co-Investigator or Named Expert: Title, PI, total (years)

12. CIHR Project Grant – New statistical methods for cohort studies of adverse effects of medications. PI: Michal Abrahamowicz, \$753,035 (2016–2021)
13. Statistical and Applied Mathematical Sciences Institute (SAMSI) Workshop Grant – Statistical causal inference and its applications to genetics. PI: Robin Evans (University of Oxford), \$6,500USD (2016) (2016)
14. CIHR Foundation Scheme – Tracking a revolution: Evaluating the impact of modern HCV therapy on HIV-HCV coinfection. PI: Marina Klein, \$4,835,202 (2015–2022)

15. CIHR Foundation Scheme – Statistical methods in pharmacoepidemiology and perinatal epidemiology. PI: Robert Platt, \$1,071,721 (2015–2022)
16. CIHR Planning and Dissemination Grant – Prenatal exposure to environmental contaminants and fetal growth: How to account for multiplicity when testing multiple statistical hypotheses? PI: Lawrence McCandless, \$12,500 (2015–2016)
17. CIHR Team Grant – Canadian network for advanced interdisciplinary methods for prospective studies of drug safety and effectiveness. PI: Michal Abrahamowicz, \$1,250,000 (2014–2019)
18. CIHR Operating Grant – Understanding blood pressure and end organ damage in adolescents. PI: Michael Zapitelli, \$438,115 (2014–2018)
19. CIHR Bridge Grant – The coming revolution in HCV therapy: Will HIV-HCV co-infected patients really benefit? PI: Marina Klein, \$100,000 (2014–2015).
20. CIHR Bridge Grant – Phylogenetic-based prevention interventions to curb the Montreal Men-Having-Sex with Men (MSM) epidemic, PI: Bluma Brenner, \$100,000 (2014–2015).
21. CIHR Operating Grant – Propensity scores and marginal structural models in drug safety research, PI: Robert Platt, \$405,940 (2012–2015).
22. CIHR Operating Grant – Prospective investigation of the relationship between food insecurity and health and behavioural outcomes in HIV-HCV co-infection: Clues for prevention interventions, PI: Joseph Cox, \$385,413 (2011–2014).
23. CIHR Operating Grant – Development of strategies to curb the Quebec HIV epidemic based on molecular epidemiological surveillance, PI: Bluma Brenner, \$311,718 (2011–2014).
24. CIHR Operating Grant – Stemming the epidemic of liver related morbidity and mortality in HIV-HCV co-infection: Is ART enough? PI: Marina Klein, \$1,924,155 (2010–2015).
25. FQRNT Team Grant – Méthodes statistiques pour les études multiniveaux, PI: Nandini Dendukuri, \$145,800 (2008–2011).
26. NIH Operating Grant – Soy-rich diet for preventing chronic post breast cancer surgery pain, PI: Yoram Shir, \$236,446.32 (2008–2010).

G3. Publications (bolded authors indicate trainees under my supervision)

G3a. Articles published in peer-reviewed journals

Methodological and statistical papers -

1. **Wallace M. P.**, Moodie E. E. M., and Stephens D. A. (2016) Discussion of ‘Personalized dose finding using outcome weighted learning’. *Journal of the American Statistical Association* (accepted).
2. Moodie E. E. M. and Stephens D. A. (2016) Treatment prediction, balance and propensity score adjustment. *Epidemiology* (accepted).

3. Suissa S., Dell’Aniello S., and Moodie E. E. M. New-user cohort designs for comparative drug studies by conditional propensity scores. *Pharmacoepidemiology & Drug Safety* (accepted).
4. **Wallace M. P.**, Moodie E. E. M., and Stephens D. A. (2016) Model validation and selection for personalized medicine using dynamic weighted ordinary least squares. *Statistical Methods in Medical Research* (accepted).
5. **Wallace M. P.**, Moodie E. E. M., and Stephens D. A. (2016) Dynamic treatment regimen estimation via regression-based techniques: Introducing R Package DTRreg. *Journal of Statistical Software* (conditionally accepted).
6. **Krakov E. F.**, Hemmer M., Wang T., Logan B., Aurora M., Spellman S., Couriel D., Alousi A., Pidala J., Last M., Lachance S., and Moodie E. E. M. (2016) Tools for the precision medicine era: How to develop highly personalized treatment recommendations from cohort and registry data using Q-learning. *American Journal of Epidemiology* (accepted).
7. **Wallace M. P.**, Moodie E. E. M., and Stephens D. A. (2016) An R package for g-estimation of structural nested mean models. *Epidemiology* (accepted).
8. Moodie E. E. M., **Karran J. C.**, and Shortreed S. M. (2016) A case study of SMART attributes: A qualitative assessment of generalizability, retention rate, and trial quality. *Trials* **17**:242, doi: 10.1186/s13063-016-1368-3.
9. **Kyle R. P.**, Moodie E. E. M., Abrahamowicz M., and Klein M. B. (2016) Correcting for measurement error in time-varying covariates in marginal structural models. *American Journal of Epidemiology* doi: 10.1093/aje/kww068. *This paper was one of three finalists for the 2016 Epidemiology Congress of the Americas, Reuel Stallones Student Prize Paper Award.*
10. Chakraborty B., Ghosh P., Moodie E. E. M., and Rush A. J. (2016) Estimating optimal shared-parameter dynamic regimens with application to a multistage depression clinical trial. *Biometrics* doi: 10.1111/biom.12493.
11. **Wallace M. P.**, Moodie E. E. M., and Stephens D. A. (2016) Model assessment in dynamic treatment regimen estimation via double robustness. *Biometrics* **72**:855864.
12. **Naimi A. I.**, **Schnitzer M. E.**, Moodie E. E. M., and Bodnar L. M. (2016) Mediation analysis for health disparities research. *American Journal of Epidemiology* doi: 10.1093/aje/kwv329.
13. **Wallace M. P.**, Moodie E. E. M., and Stephens D. A. (2016) SMART thinking: a review of recent developments in sequential multiple assignment randomized trials. *Current Epidemiology Reports* 1-8, doi: 10.1007/s40471-016-0079-3.
14. **Regier M. D.** and Moodie E. E. M. (2016) An extension of the EM algorithm for uniquely parameterized distributions. *International Journal of Biostatistics* **12**:65-77.
15. **Rich B.**, Moodie E. E. M., Stephens D. A. (2016) Optimal individualized dosing strategies: A pharmacologic approach to developing dynamic treatment regimens for continuous-valued treatments. *Biometrical Journal* **58**:502517.

16. **Saarela O.**, Arjas E., Stephens D. A., and Moodie E. E. M. (2015) Predictive Bayesian inference and dynamic treatment regimes. *Biometrical Journal* **57**:41-958.
17. **Mojaverian N.**, Moodie E. E. M., **Bliu A.**, and Klein M. B. (2015) The impact of sparse follow-up on marginal structural models for time-to-event data. *American Journal of Epidemiology* **182**:1047–1055.
18. Wang Y., Murphy O., Turgeon M., Wang Z., Bhatnagar S. R., Schulz J, and Moodie E. E. M. (2015) The perils of Quasi-likelihood Information Criteria. *Stat* **4**:246-254.
19. **Karran J.**, Moodie E. E. M., and **Wallace M. P.** (2015) Statistical method use in public health research. *Scandinavian Journal of Public Health* **43**:776-7825.
20. **Wallace M. P.** and Moodie E. E. M. (2015) Doubly-robust dynamic treatment regimen estimation via weighted least squares. *Biometrics* **71**:636-644.
21. **Rich B.**, Moodie E. E. M., Stephens D. A. (2015) Influence re-weighted g-estimation. *International Journal of Biostatistics* **11**, doi: 10.1515/ijb-2015-0015.
22. **Saarela O.**, Stephens D. A., Moodie E. E. M., and Klein M. B. (2015) On Bayesian estimation of marginal structural models. (With Response to Discussion) *Biometrics* **71**:279–288.
23. **Parveen N.**, Moodie E. E. M., and Brenner B. (2015) The non-zero mean SIMEX: Improving estimation in the face of measurement error. *Observational Studies* **1**:91–123.
24. **Naimi A. I.**, Auger A., Moodie E. E. M., and Kaufman J. S. (2014) Stochastic mediation contrasts in epidemiologic research: Interpregnancy interval and the educational disparity in preterm delivery. *American Journal of Epidemiology* **180**:436–445.
25. **Naimi A. I.**, Moodie E. E. M., Auger A., and Kaufman J. S. (2014) Semiparametric adjusted exposure-response curves. *Epidemiology* **25**:919–922.
26. Sauerbrei, W. et al. (including Moodie E. E. M.) (2014) STREngthening Analytical Thinking for Observational Studies: The STRATOS initiative. *Statistics in Medicine*. **33**:5413-5432.
27. Moodie E. E. M., Dean N. and **Sun Y. R.** (2014) Q-learning: Flexible learning about useful utilities. *Statistics in Biosciences* **6**:223–243.
28. **Schnitzer M.**, van der Laan M. J., Moodie E. E. M., and Platt R. W. (2014) Effect of breastfeeding on gastrointestinal infection in infants: A targeted maximum likelihood approach for clustered longitudinal data. *Annals of Applied Statistics* **8**:703–725. *This paper was nominated for American Statistical Association’s 2015 Outstanding Applications Award.*
29. **Xiao Y.**, Abrahamowicz M., Moodie E. E. M., Weber R., and Young J. (2014) Flexible marginal structural models for estimating the cumulative effect of a time-dependent treatment on the hazard: Reassessing the cardiovascular risks of didanosine treatment in the Swiss HIV Cohort. *Journal of the American Statistical Association* **109**:455–464.
30. **Wallace M. P.** and Moodie E. E. M. (2014) Personalizing medicine: A review of adaptive treatment strategies. *Pharmacoepidemiology & Drug Safety* **23**:580–585.

31. **Schnitzer M.**, Moodie E. E. M., van der Laan M. J., Platt R. W., and Klein M. B. (2014) Modeling the impact of hepatitis C viral clearance on end-stage liver disease in an HIV co-infected cohort with Targeted Maximum Likelihood Estimation. *Biometrics* **70**:144–152.
32. **Rich B.**, Moodie E. E. M., Stephens D. A. (2014) Simulating sequential multiple assignment randomized trials to generate optimal personalized Warfarin dosing strategies. *Clinical Trials* **11**:435–444.
33. Moodie E. E. M., Stephens D. A. and Klein M. B. (2014) A marginal structural model for multiple-outcome data. *Statistics in Medicine* **33**:1409–1425.
34. **Héroux J.**, Moodie E. E. M., Strumpf E., Coyle N., Tousignant P., and Diop M. (2014) Marginal structural models for skewed outcomes: Identifying causal relationships in health care utilization. *Statistics in Medicine* **33**:1205–1221.
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39. Moodie E. E. M., Chakraborty B., and Kramer M.S. (2012) Q-learning for estimating optimal dynamic treatment rules from observational data. *The Canadian Journal of Statistics* **40**:629–645.
40. Shortreed, S. M. and Moodie E. E. M. (2012) Estimating the optimal dynamic treatment regime for schizophrenia: Evidence from the sequentially randomized CATIE Schizophrenia Study. *Journal of the Royal Statistical Society, Series C* **61**:577–599.
41. Hanley J.A. and Moodie E. E. M. (2012) Sample size, precision and power calculations: A unified approach. *Journal of Biometrics & Biostatistics* **2**, doi:10.4172/2155-6180.1000124.
42. Moodie E. E. M. and Stephens D. A. (2012) Estimation of dose-response functions for longitudinal data using the Generalized Propensity Score. *Statistical Methods in Medical Research*, **21**:148–167.
43. Moodie E. E. M. and Stephens D. A. (2011) Marginal Structural Models: Unbiased estimation for longitudinal studies. *International Journal of Public Health*, **56**:117–119.
44. Moodie E. E. M. and Stephens D. A. (2010) Using Directed Acyclic Graphs to detect limitations of traditional regression in longitudinal studies. *International Journal of Public Health*, **55**:701–703.

45. **Rich B.**, Moodie E. E. M., Stephens D. A., and Platt R. P. (2010) Model checking with residuals for g-estimation of optimal dynamic treatment regimes. *The International Journal of Biostatistics*, **6**(2): Article 10.
46. **Xiao Y.**, Abrahamowicz M., and Moodie E. E. M. (2010) Accuracy of conventional and marginal structural Cox model estimators: A simulation study. *The International Journal of Biostatistics*, **6**(2): Article 11.
47. Moodie E. E. M. and Richardson T. S. (2010) Estimating optimal dynamic regimes: Correcting bias under the null. *The Scandinavian Journal of Statistics* **37**:126–146.
48. **Biernot, P.** and Moodie E. E. M. (2010) A comparison of variable selection approaches for dynamic treatment regimes. *The International Journal of Biostatistics*, **6**(1): Article 6.
49. Moodie E. E. M. (2009) A note on the variance of doubly-robust G-estimates. *Biometrika* **96**:998–1004.
50. Moodie E. E. M. (2009) Risk factor adjustment in marginal structural model estimation of optimal treatment regimes. *Biometrical Journal*, **51**:774–788
51. Moodie E. E. M., Platt R. W., and Kramer M. S. (2009) Estimating response-maximized decision rules with applications to breastfeeding. *Journal of the American Statistical Association* **104**:155–165.
52. Moodie E. E. M., Delaney J. A. C., LeFebvre G., and Platt R. W. (2008) Missing confounding data in marginal structural models: a comparison of inverse probability weighting and multiple imputation. *The International Journal of Biostatistics*, **4**: Article 13.
53. Hanley J. A., Julien M., and Moodie E. E. M. (2008) Student’s z, t, and s: what if Gosset had R? *The American Statistician*, **62**:64–69.
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55. White I., Moodie E. E. M., Thompson S., Croudace T. (2003) A modelling strategy for the analysis of clinical trials with partly missing longitudinal data. *International Journal of Methods in Psychiatric Research*, **12**:139–150.
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Substantive papers -

57. **Gough E. K.**, Moodie E. E. M., Prendergast A. J., Ntozini R., Moulton L. H., Humphrey J. H., and Manges A. R. (2016) Linear growth trajectories in Zimbabwean infants. *American Journal of Clinical Nutrition* (accepted).

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59. Cox J., Hamelin A.-M., **McLinden T.**, Moodie E. E. M., Anema A., Rollet-Kurhajec K., Paradis G., Rourke, S. B., Walmsley S. L., Klein M. B and the Canadian Co-infection Cohort Investigators. (2016) Food insecurity in HIV-hepatitis C virus co-infected individuals in Canada: The importance of co-morbidities and competing needs. *AIDS and Behavior* doi:10.1007/s10461-016-1326-9.
60. **Rossi C.**, Cox J., Cooper C., Martel-Laferrière V., Walmsley S., Gill J., Sapir-Pichhiadze R., Moodie E. E. M., and Klein M. B. (2016) Frequent injection cocaine use increases the risk of chronic renal impairment among hepatitis C and HIV co-infected patients. *AIDS* **30**:1403–1411.
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62. **Brunet L.**, Moodie E. E. M., Young J., Cox J., Hull M., Cooper C., Walmsley S., Martel-Laferrière V., Rachlis A., and Klein M. B. for the Canadian Coinfection Cohort Study Investigators. (2016) Progression of liver fibrosis and modern combination antiretroviral therapy regimens in HIV-hepatitis C co-infected persons. *Clinical Infectious Diseases* **62**:242–249.
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64. **Gough E. K.**, Stephens D. A., Moodie E. E. M., Prendergast A. J., Stoltzfus R. J., Humphrey J. H., and Manges A. R. (2015) Linear growth faltering in infants is associated with *Acidominococcus* sp. and community-level changes in the gut microbiota. *Microbiome* **3**:24–33.
65. Young J., **Xiao Y.**, Moodie E. E. M., Abrahamowicz M., Klein M. B., Bernasconi E., Vernazza P., Calmy A., Cavassini M., Cusini A., Weber R., Bucher H. C. and the Swiss HIV Cohort Study (2015) The effect of cumulating exposure to abacavir on the risk of cardiovascular disease events in patients from the Swiss HIV Cohort Study. *Journal of AIDS* **69**:413–421. *This paper is cited in the 2016 Recommendations of the International Antiviral Society USA Panel (2016 JAMA* **316**:191–210).
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72. Polis C. B., Westreich D., Balkus J. E., Heffron R., and participants of the 2013 HC-HIV observational analysis meeting (including Moodie E. E. M.). (2013) Assessing the effect of hormonal contraception on HIV acquisition in observational data: challenges and recommended analytic approaches. *AIDS* **27**:S35-S43.
73. **Brunet, L.**, Moodie E. E. M., Rollet K., Cooper C., Walmsley S., Potter M., and Klein M. B. for the Canadian HIV-HCV Cohort Investigators. (2013) Marijuana smoking does not accelerate progression of liver disease in HIV-hepatitis C co-infection: a longitudinal cohort analysis. *Clinical Infectious Diseases* **57**:663–670. *This paper was the ‘Editor’s choice’ on Hepatitis Central, and is cited in the April 2014 WHO ‘Guidelines for the screening, care and treatment of persons with Hepatitis C infection’ as well as the guidelines of the European Association for the Study of the Liver (EASL).*
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78. Hull M. W., Rollet K., Moodie E. E. M., Walmsley S., Cox J., Potter M., Cooper C., Pick N., Saeed S., and Klein M. B. for the Canadian HIV-HCV Cohort Investigators. (2012) Insulin Resistance is associated with progression to hepatic fibrosis in a cohort of HIV/HCV co-infected patients. *AIDS* **26**:1789–1794.
79. Hayward L., Wingfield J. C., and Moodie E. E. M. (2012) Patterns of yolk testosterone deposition in two populations of arctic-breeding redpolls. *Journal of Ornithology* **153**:727–734.
80. **Thorpe J.**, Saeed S., Moodie E. E. M., and Klein M. B. (2011) Antiretroviral treatment interruption leads to progression of liver fibrosis in adults co-infected with HIV and Hepatitis C. *AIDS*, **25**:967-975.
81. Kramer M. S., Moodie E. E. M., Dahhou M., and Platt R. W. (2011) Breastfeeding and infant growth: An empirical demonstration of reverse causality. *American Journal of Epidemiology* **173**:988–989. See also commentary by Schisterman et al. and response.
82. Moodie E. E. M., Pai N. P., and Klein M. (2009) Is anti-retroviral therapy causing long-term liver damage? Results from an HIV-only and HIV-Hepatitis C co-infected cohort. *PLoS One*, **4**: e4517, doi:10.1371/journal.pone.0004517
83. Pai, N. P., Milton Estes, M., Moodie E. E. M., Reingold, A. L. and Tulsy, J. P. (2009) The impact of antiretroviral therapy in a cohort of HIV infected patients going in and out of the San Francisco County jail. *PLoS One* **4**: e7115, doi:10.1371/journal.pone.0007115
84. Pai N. P., Joshi R., Dogra S., Taksande B., Mendiratta D., Kalantri S.P., Pai M., Moodie E. E. M., Narang P., Tulsy J. P., and Reingold A. (2008) Profile of adults seeking voluntary HIV testing and counseling in rural Central India: Results from a hospital based study. *AIDS Care*, **21**:294–300.
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86. Delaney J. A. C., Moodie E. E. M., and Suissa S. (2008) Validating the effects of drug treatment on blood pressure in the General Practice Research Database. *Pharmacoepidemiology and Drug Safety*, **17**:535–545.

G3b. Books

Statistical Methods for Dynamic Treatment Regimes: Reinforcement Learning, Causal Inference, and Personalized Medicine. (2013) Chakraborty B. and Moodie E. E. M. Springer (Statistics for Biology and Health series).

G3c. Books Edited

Adaptive Treatment Strategies in Practice Planning Trials and Analyzing Data for Personalized Medicine. (2016) Edited by Kosorok M. R. and Moodie E. E. M. ASA-SIAM (American Statistical Association-Society for Industrial Mathematics) Publishing.

G3d. Book Chapters

1. **Krakow E. K.** and Moodie E. E. M. (2017) SMARTs, machine learning, and GVHD prevention and treatment in the precision medicine era. In “A Guide to Outcome Modeling In Radiotherapy and Oncology: Listening to the Data.” Edited by El-Naqa I.
2. **Schnitzer M.**, van der Laan M. J. Moodie E. E. M., and Platt R. W. (2017) The analysis of longitudinal count data with clustering. In “Targeted Learning in Data Science: Causal Inference for Complex Longitudinal Studies.” Edited by van der Laan M. J. and Rose S. Springer.
3. **Wallace M. P.** and Moodie E. E. M. (2016) Analysis in the single-stage setting: An overview of estimation approaches for dynamic treatment regimes. In “Adaptive Treatment Strategies in Practice Planning Trials and Analyzing Data for Personalized Medicine.” Edited by Kosorok M. R. and Moodie E. E. M.

G3e. Non-refereed contributions: Articles, book reviews, and miscellanea

1. Goetghebeur E., De Stavola B., Moodie E. E. M., Waernbaum I. and le Cessie S. for the STRATOS group on causal inference (2016) “The statistics of tragedy” or “the tragedy of statistics”? *Significance Magazine* Feb. 2016, page 46
2. Young J., Moodie E. E. M., Abrahamowicz M., Klein M. B., Weber R., Bucher H. C. (2015) Incomplete modelling of the effect of antiretroviral therapy on the risk of cardiovascular events. *Clinical Infectious Diseases*.
3. Moodie E. E. M., Hanley J. A., and Manges A. R. (2013) Hey baby, what’s your sign? How children born under Sagittarius are denied day-care. *Significance* **10**: 33-36.
4. Moodie E. E. M., Kaufman J. S. and Platt R. W. (2012) Special issue on causal inference in health research (Editorial Introduction). *The International Journal of Biostatistics*, 8(2): Article 1.
5. Kramer M.S., Moodie E. E. M., Dahhou M., and Platt R.W. Response to “Causation or ‘noita-suaC’?” *American Journal of Epidemiology*, **173**: 988-989.
6. Moodie E. E. M. and Stephens D. A. (2010) Special issue on causal inference (Editorial Introduction). *The International Journal of Biostatistics*, 6(2): Article 1.
7. **McDonald S.**, Moodie E. E. M., and Lynch, J. (2010) Methodological approaches to conceptualizing and modeling the effect of dynamic family structure on child behavior. *American Journal of Epidemiology* **11**: Supplement, S112

8. Moodie E. E. M. (2009) Book review: An Introduction to Generalized Linear Models (Third Edition) by A. J. Dobson and A. G. Barnett. *The Journal of Biopharmaceutical Statistics* **19**: 568-569.
9. Ball A. M., Leca N., Moodie E. E. M., Kendrick E. A., Davis C. L. (2006) Outcomes of steroid-free immunosuppression with tacrolimus/sirolimus (FK/Sr) in kidney transplant patients. *Journal of the American Society of Nephrology* (special volume for ASN meeting, November 2006).
10. Moodie E. E. M. (2004) Letter to the editor. *Clinical Trials*, **1**: 471.

G3f. Conference Presentations and Abstracts

Conference presentations (invited) -

1. Blood and Marrow Transplantation (BMT) Tandem Meetings, Orlando, FL (February, 2017) An introduction to adaptive treatment strategies.
2. Joint Statistical Meetings (JSM), Chicago, IL (August, 2016) The vexing problem of analyzing real data: Discussion of ‘Personalized dose finding using outcome weighted learning’.
3. Joint Statistical Meetings (JSM), Chicago, IL (August, 2016) Model validation and selection in estimation of dynamic treatment regimes.
4. International Biometrics Conference, Victoria, BC (July, 2016) Modeling marginal hazard in the presence of unobserved histories: Does interrupting ART increase the risk of liver fibrosis?
5. Eastern North American Region of the International Biometric Society (ENAR/IBS) Meeting, Austin, TX (March, 2016) Model validation and selection in estimation of dynamic treatment regimes.
6. World Statistics Congress, Rio de Janeiro, Brazil (July, 2015) A cure-rate model for estimating the optimal dynamic treatment sequence following bone marrow transplantation.
7. Eastern North American Region of the International Biometric Society (ENAR/IBS) Meeting, Miami, FL (March, 2015) From idealized to realized: Estimating dynamic treatment regimens from electronic medical records.
8. United Kingdom Causal Inference Meeting, Bristol, UK (April, 2015) Correcting measurement error in HIV phylogenetic cluster size.
9. Science Atlantic Mathematics, Statistics and Computer Science Conference, St. John, NB (October, 2014) Dynamic treatment regimens: Quantitative tools for the personalization of medicine. Keynote Speaker: Field Lecture.
10. United Kingdom Causal Inference Meeting, Cambridge, UK (April, 2014) Addressing measurement error in the confounders in inverse probability weighting.
11. The American Statistical Association (ASA) Significance Media Luncheon, Montreal, QC (August, 2013) Hey baby, what’s your sign? Why being a Sagittarius is no fun at all.

12. Joint Statistical Meetings (JSM), Montreal, QC (August, 2013) Q-learning with a useful utility.
13. Conference for the Society for Clinical Trials, Boston, MA (May, 2013) Generating candidate optimal individualized dosing strategies.
14. University of Pennsylvania 6th Annual Conference on Statistical Issues in Clinical Trials, Philadelphia, PA (April, 2013) Generating candidate optimal individualized dosing strategies.
15. Eastern North American Region of the International Biometric Society (ENAR/IBS) Meeting, Orlando, FL (March, 2013) Generating candidate optimal individualized dosing strategies.
16. The Bill & Melinda Gates Foundation, Seattle, WA (January, 2013) Marginal Structural Models and Mediation Analyses. Keynote address at FHI360 and USAID collaborative meeting on “Best practices in analytic approaches to assess the effect of hormonal contraception on HIV acquisition with observational data”.
17. SSC, Guelph, ON (June, 2012) Q-learning for Estimating Optimal Dynamic Treatment Rules from Observational Data.
18. Time for Causality - Causal Inference and Dynamic Decisions in Longitudinal Studies Workshop, Bristol, UK (April, 2012) Q-learning for Estimating Optimal Dynamic Treatment Rules from Observational Data.
19. Foundations and Frontiers: A Conference Celebrating the Contributions of Mary Thompson to the Statistical Sciences, Waterloo, ON (October, 2011) Q-learning for Estimating Optimal Dynamic Treatment Rules from Observational Data.
20. Eastern North American Region of the International Biometric Society (ENAR/IBS) Meeting, New Orleans, LA (March, 2010) Model-checking for Semiparametric Estimation of Optimal Dynamic Treatment Regimes.
21. Joint Statistical Meetings (JSM), Washington D.C. (August, 2009) Structural Nested Mean Modeling of Response-maximized Breastfeeding Strategies.
22. Atlantic Causal Modeling Conference, Philadelphia, PA (May, 2009) Invited discussants of Structural Nested Mean Models for Assessing Time-Varying Effect Moderation by Daniel Almirall, Thomas Ten Have, and Susan A. Murphy.
23. Western North American Region of the International Biometric Society (WNAR/IBS) Meeting, Davis, CA (June, 2008) Quantifying Dose-Response for a Continuous Treatment in the Presence of Non-Compliance or Confounding.
24. Statistical and Applied Mathematical Sciences Institute (SAMSI) summer programme on Dynamic Treatment Regimes and Multistage Decision-Making, Durham, NC (June, 2007) Asymptotic Bias Correction for g-estimation of Optimal Dynamic Regimes.
25. Statistical Society of Canada (SSC) meeting; St. John’s, NL (June, 2007) Quantifying Dose-Response for a Continuous Treatment in the Presence of Non-Compliance or Confounding.

26. Western North American Region of the International Biometric Society (WNAR/IBS) Meeting; Flagstaff, AZ (June, 2006) Bias Correction in Non-differentiable Estimating Equations for Optimal Dynamic Regimes.

Presentations at universities or research institutes (invited) -

1. McGill University, Department of Epidemiology, Biostatistics, & Occupational Health – Biostatistics seminar series. (October, 2015) How SMART is your trial? Obtaining quality data about dynamic treatment regimes.
2. Dartmouth University, Department of Biostatistics and Epidemiology (May, 2015) SMART studies and the personalization of medical care.
3. University of Glasgow, Department of Statistics (May, 2014) SMART studies and the personalization of medical care.
4. Oxford University, Department of Statistics (April, 2014) SMART studies and the personalization of medical care.
5. London School of Hygiene and Tropical Health, Centre for Statistical Methodology (April, 2014) SMART studies and the personalization of medical care.
6. University of Manchester, Centre for Biostatistics, Institute of Population Health (March, 2014) How SMART is your study? Obtaining quality data to estimate dynamic treatment regimes.
7. Cambridge University, Medical Research Council Biostatistics Unit (March, 2014) How SMART is your study? Obtaining quality data to estimate dynamic treatment regimes.
8. Oxford University, Centre for Statistics in Medicine (January, 2014) How SMART is your study? Obtaining quality data to estimate dynamic treatment regimes.
9. Université de Sherbrooke, Department of Mathematics (April, 2013) The current state of Q-learning for personalized medicine.
10. McGill University, Department of Mathematics & Statistics. (September, 2012) The current state of Q-learning for personalized medicine.
11. Ghent University, Center for Statistics. (July, 2012) Learning of optimal dynamic treatment rules from observational data.
12. McGill University, Department of Epidemiology, Biostatistics, & Occupational Health – Epidemiology seminar series. (March, 2012) Learning about optimal personalized treatment rules from observational data.
13. Harvard School of Public Health (September, 2010) Marginal structural models for competing risks.
14. London School of Hygiene and Tropical Medicine, Medical Statistics Unit (August, 2009) Structural nested modeling of optimal breastfeeding strategies.

15. MUHC Department of Clinical Epidemiology (March, 2009) Estimating unbiased dose-response curves from repeated measures in the presence of confounding.
16. University of Toronto, Dalla Lana School of Public Health – Biostatistics (March, 2009) Estimating unbiased dose-response curves from repeated measures in the presence of confounding.
17. Laval University, Department of Statistics (March, 2008) The multivariate generalized propensity score: Estimating dose-response functions from longitudinal data.
18. University of Washington, Department of Biostatistics and Department of Statistics [special joint seminar] (January, 2008) The multivariate generalized propensity score: Estimating dose-response functions from longitudinal data.
19. University of Texas MD Anderson Cancer Center, Department of Biostatistics. (September, 2007) Optimal adaptive treatment strategies: Using structural nested models to estimate the optimal duration of breastfeeding.
20. McGill University, Department of Epidemiology, Biostatistics, and Occupational Health - Biostatistics seminar series. (September, 2007) Optimal adaptive treatment strategies: Using structural nested models to estimate the optimal duration of breastfeeding.
21. University of Winnipeg, Department of Mathematics and Statistics. (April, 2007) Optimal adaptive treatment regimes: unbiased estimation for endogenous variables.
22. McGill University, Department of Epidemiology, Biostatistics, and Occupational Health - Biostatistics seminar series. (October, 2006) Bias correction in non-differentiable estimating equations for optimal dynamic regimes.
23. Colloque du Centre de Recherches Mathématiques. (October, 2006) Introduction to optimal dynamic treatment regimes.

Conference presentations (contributed) -

1. Joint Statistical Meetings (JSM), Seattle, WA (August, 2015) Estimating the optimal treatment sequence for graft-versus-host-disease following bone marrow transplantation. *Note:* This was a “topics contributed” session.
2. Eastern North American Region of the International Biometric Society (ENAR/IBS) Meeting; Washington, DC (April, 2012) Q-learning for Estimating Optimal Dynamic Treatment Rules from Observational Data.
3. Statistical Society of Canada (SSC) meeting; Wolfville, NS (June, 2011) Estimation of optimal dynamic treatment rules with shared parameters and non-regularity
4. Joint Statistical Meetings (JSM), Vancouver, B.C. (August, 2010) G-estimation of structural nested model parameters for optimal dynamic treatment regimes: Looking for problems. *Note:* This was a “topics contributed” session.
5. Statistical Society of Canada (SSC) meeting; Quebec, QC (May, 2010) Quantifying dose-response for a continuous treatment in the presence of non-compliance or confounding.

6. Statistical Society of Canada/Société Francovcaise de Statistique meeting: Ottawa, ON (May, 2008) Bias reduction for g-estimation of optimal dynamic regimes at exceptional laws.
7. Western North American Region of the International Biometric Society (WNAR/IBS) Meeting; Fairbanks, AK (June, 2005) A new calculation for recursive g-estimation of optimal dynamic treatment regimes.
8. Royal Statistical Society (RSS) Meeting; Manchester, UK (September, 2004) Dynamic Treatment Regimes: Review and an Application.

Poster presentations (invited and/or peer-reviewed) -

1. Moodie E. E. M. (2007) Causal inference techniques for longitudinal data. CIHR Institute of Infection and Immunity New Investigator Forum; King City, ON.
2. Moodie E. E. M., Saeed S., Klein M. B. (2010) Extending marginal structural models for competing risks: The effect of ART interruptions on death. International Workshop on HIV Observational Databases; Barcelona, Spain.
3. Thorpe J., Saeed S., Moodie E. E. M., Klein M. B. (2010) Interruption of Antiretroviral Therapy (ART) is associated with progression of liver fibrosis in HIV/HCV co-infected adults. International Workshop on HIV Observational Databases; Barcelona, Spain.

Workshops, working groups, and other activities -

1. As a Program Leader, co-organizing a year-long programme on *Precision Medicine* at the Statistical and Applied Mathematical Sciences Institute (2018-2019).
2. Co-organized a four-week short programme entitled *Statistical Causal Inference and its Applications to Genetics* at the Centre de Recherches Mathématiques (CRM), July 25-August 19, 2016. The CRM contributed \$25,000 towards the meeting.
3. Co-organized a five-day workshop entitled *Developing a Comprehensive, Integrated Framework for Advanced Statistical Analyses of Observational Studies* at the Banff International Research Station (BIRS), July 3-8, 2016.
4. Led a working group on “Connecting to Health and Social Sciences” and gave a scientific presentation on “Statistical Causal Inference and its Applications to Genetics” at the Canadian Statistical Sciences Institute (CANSSI) workshop and retreat at the Banff International Research Station (BIRS), September 25-27, 2015.
5. Organized a one-day workshop on R programming led by Dr. Duncan Murdoch (University of Western Ontario) with sponsorship from the Statistics Laboratory of the Centre de Recherches Mathématiques (CRM), which was held in Montreal, QC June 9, 2014.
6. Organized a five-day workshop entitled *Causal Inference in Health Research* as part of the themed semester in statistics sponsored by the Statistics Laboratory of the Centre de Recherches Mathématiques (CRM), which was held in Montreal, QC May 9-13, 2011. The CRM contributed \$25,000 towards the meeting.

7. Organized a two-day workshop entitled *Statistical Methods in HIV Research* as part of the themed semester in statistics sponsored by the Statistics Laboratory of the Centre de Recherches Mathématiques (CRM), Montreal, QC, April 14-15, 2011. The CRM contributed \$15,000 towards the meeting.
8. Organized and chaired an Invited Session (sponsored by WNAR) at the Joint Statistical Meeting in Vancouver, BC, July 31-August 6, 2010.
9. Chaired a contributed session on “Biostatistics” at the Statistical Society of Canada (SSC) Meeting; Quebec, QC, May 22-26, 2010.
10. Organized a five-day workshop along with David Stephens (Mathematics and Statistics, McGill) entitled *Causal Inference in Statistics and the Quantitative Sciences* at the Banff International Research Station, May 3-8, 2009.
11. Invited presentation on Early Career and Renewal in an Academic Position at the Ontario/Quebec regional Young Investigators meeting of the Statistical Society of Canada, a meeting co-sponsored by Centre de Recherches Mathématiques in Montreal, QC, April 4, 2009.
12. Organized and chaired an Invited Session at the XXIV International Biometric Conference in Dublin, Ireland, July 13-18, 2008. The proposal was one of 20 selected from among 77 submissions.
13. Chaired a contributed session on “Genes and Gene Expression” at the Western North American Region of the International Biometric Society (WNAR/IBS) Meeting; Davis, CA, June 22-25, 2008.
14. Led a working group on “Practical Challenges and Applications” in the Statistical and Applied Mathematical Sciences Institute (SAMSI) summer programme on Dynamic Treatment Regimes and Multistage Decision-Making; Durham, NC. June 25-27, 2007.

H. DELAYS AND INTERRUPTIONS

2009-2010 Maternity leave: April 10, 2009 to March 26, 2010.

2010-2011 Maternity leave: December 12, 2010 to December 12, 2011.