

Curriculum Vitæ – Erica E. M. Moodie

March 31, 2020

* Please see final page for a list of acronyms for funding agencies and societies *

A. IDENTIFICATION

Name: Erica Eleanor Margret Moodie

Address: Department of Epidemiology, Biostatistics, and Occupational Health
McGill University
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Montreal, Quebec H3A 1A2

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Website: www.ericamoodie.com

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

- 2020-present Professor, Department of Epidemiology, Biostatistics, and Occupational Health,
 McGill University
- 2012-2020 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
- 2019-2020 Telemachus Scholar, McGill University
- 2019- Member, Mark Wainberg Centre for Viral Diseases

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 FRQS Chercheur-Boursier, Junior 2 \$256,943
- 2017-2021 FRQS Chercheur-Boursier, Senior \$295,451

Recognitions

2020	CRM-SSC Prize
2018	Principal's Prize for Outstanding Emerging Researchers
2017, 2019	EBOH Excellence in Mentoring Award
2015-2021	William Dawson Scholar, McGill University
2015	Elected Member, International Statistical Institute

E. TEACHING

E1. Graduate Courses

Department of Epidemiology and Biostatistics, McGill University

Course title	Course no.	In-class hours	Credits	Year	No. students
Advanced Generalized Linear Models: Correlated Data	BIOS 612	30	4	2007	4
				2009	5
				2010	10
				2013	10
				2015	10
Principles of Inferential Statistics	EPIB 607	39	4	2007	21
				2008	29
				2010	27
				2012	40
				2016	10
Epidemiology Regression Models II	BIOS 602	39	4	2017	11
				2018	9

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 (co-taught with B. Chakraborty)	JSM	4	16

2015	Statistical Methods for Tailoring Treatment to Patients (co-taught with M. Kosorok & E. Laber)	JSM	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
2017	Causal Questions and Principled Answers: A Guide Through the Landscape for Practising Statisticians (co-taught with members of the STRATOS Causal Inference Topic Group)	International Society for Clinical Biostatistics	6	45
2018	The Propensity Score as a Tool for Causal Inference (co-taught with David Stephens)	McGill Summer School in Health Statistics	6	35
2018	Causal Questions and Principled Answers: A Guide Through the Landscape for Practising Statisticians (with the STRATOS Causal Inference Topic Group)	Statistical Society of Canada	6	46
2018	An Introduction to Adaptive Treatment Strategies from a Statistical Perspective	Roche Mississauga	4	50
2019	The Propensity Score as a Tool for Causal Inference (co-taught with David Stephens)	McGill Summer School in Health Statistics	6	25
2019	Statistical Approaches to Adaptive Treatment Strategies	McGill Summer School in Health Statistics	6	25
2019	Adaptive Treatment Strategies: An Introduction to Statistical Approaches for Estimation	JSM	4	TBD

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)
Current position: Director of Insurance Analytics, Verisk
- 2011-2013 *Olli Saarela (Co-supervisor: David Stephens)
 Finnish Foundation for Technology Promotion (40,000Euros)
Current position: Associate Professor, University of Toronto
- 2012-2013 Ashley Naimi (Co-supervisor: Jay Kaufman)
 FRSQ post-doctoral award (\$30,000/year, two years)
 SER Lilienfeld Postdoctoral Prize Paper Award
Current position: Assistant Professor, University of Pittsburgh
- 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)
Current position: Assistant Professor, University of Waterloo
- 2018-2019 *Juliana Schulz

- Current position:* Assistant Professor, HEC
- 2019- *Mamadou Yauck
SAMSI-CANSSI Postdoctoral Fellowship (\$65,125 USD)
- 2019- *Eric Rose
CANSSI-StatLab-CRM Postdoctoral Fellowship (\$45,000)
- 2020- *Hiroshi Mamiya

Graduate students: Doctoral degree supervision

- 2000-2009 *Sheila McDonald, Ph.D. Epidemiology (Co-supervisor: John Lynch)
CIHR Doctoral Award; (\$20,000/year, three years)
Current position: Research Scientist, Alberta Health Services
- 2006-2012 Yongling Xiao, Ph.D. Biostatistics (Co-supervisor: Michal Abrahamowicz)
Graduate Research Enhancement and Travel Award (\$1000)
Current position: Biostatistician, Analysis Group
- 2006-2013 *Benjamin Rich, Ph.D. Biostatistics (Co-supervisor: David Stephens)
NSERC CGS-D3 (\$21,000/year, three years)
Current position: Biostatistician, Certara
- 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)
SSC Travel Award (\$500)
SSC Case Studies Award (\$500)
FRQNT bourse de stage internationale (\$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)
Current position: Associate Professor, Université de Montréal
- 2010-2015 *Alex Bliu, Ph.D. Biostatistics (Co-supervisor: James Hanley)
Current position: Biostatistician, Health Canada
- 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)
Current position: Assistant Scientist, Johns Hopkins School of Public Health
- 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
Current position: Director of Epidemiology, EpiVidian
- 2011-2017 *Nabila Parveen, Ph.D. Biostatistics
McGill University Faculty of Medicine Graduate Scholarship (\$12,000)
Current position: Biostatistician, Health Canada's Biologics and

Genetic Therapies Directorate

- 2012-2017 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
Current position: Postdoctoral fellow, UBC
- 2012-(2018) Ryan Kyle, Ph.D. Epidemiology (Co-supervisor: Michal Abrahamowicz)
McGill University Faculty of Medicine Graduate Scholarship (\$12,000)
SSC Biostatistics Section Travel Award (\$250)
Studies interrupted for personal reasons.
Current position: Senior R Developer, Plotly
- 2012-(2018) *Gillian Ainsworth, Ph.D. Biostatistics (Co-supervisor: Abbas Khalili)
Graduate Research Enhancement and Travel Award (\$500)
Changed supervisors in 2018.
- 2013-2018 Taylor McLinden, Ph.D. Epidemiology (Co-supervisor: Joseph Cox)
McGill University Faculty of Medicine Graduate Scholarship (\$12,000)
Canadian HIV Observational Cohort (CANOC) Centre Doctoral Scholarship (\$21,500)
McGill MedStar Award (\$500), in recognition of excellence in research
Current position: Epidemiologist, BC Centre for Excellence in HIV/AIDS
- 2015-2019 *Gabrielle Simoneau, Ph.D. Biostatistics (Co-supervisor: Robert Platt)
FRQNT Doctoral Research Award (\$20,000/year, three years)
Statistics Society of Canada Travel Award (\$500)
Statistics Society of Canada Biostatistics Section Travel Award (\$250, twice)
Graduate Research Enhancement and Travel (GREAT) Award (\$900 in 2018, \$1000 in 2019)
Nominated for the CAGS/PROQUEST-UMI Distinguished Dissertation Award
- 2016- *Janie Coulombe, Ph.D. Biostatistics (Co-supervisor: Robert Platt)
Statistics Society of Canada Case Studies Award (\$500)
NSERC CGS-D (\$21,000/year, two years)
- 2017-2019 Estelina Capistrano, Ph.D. in Statistics at Universidade Federal do Rio de Janeiro, Brazil (Co-supervisor: Alexandra Schmidt)
- 2017- *Daniel Rodriguez Duque, Ph.D. Biostatistics (Co-supervisor: David Stephens)
NSERC Alexander Graham Bell Scholarship (CGS-D, \$35,000/year, two years)
FRQNT Doctoral Research Award (\$21,000/year, three years)
FRQNT mobilité internationale étudiante pour les projets de recherche en équipe (\$4000)
- 2017- Gayatri Marathe, Ph.D. Epidemiology (Co-supervisor: Marina Klein)
McGill University Hospital Centre - Research Institute Studentship (\$9,125)
CanHepC Trainee Award (\$25,000/year, four years)
- 2017- Quoc Nguyen, Ph.D. Epidemiology (Co-supervisor: Christina Wolfson)
Fondation du CHUM training award, Centre hospitalier de l'U. de Montréal (\$38,451), declined
FRQS doctoral training award (\$39,323/year, four years)
CIHR doctoral training award (\$35,000/year, three years)

- Département de médecine complementary training award, U. de Montréal (\$25,000)
 Société québécoise de gériatrie training scholarship (\$1000)
- 2018- Shuo (Mila) Sun, Ph.D. Biostatistics (Co-supervisor: Johanna Neslehova)
- 2018- Armando Turchetta, Ph.D. Biostatistics (Co-supervisor: David Stephens)
 CRM International Research Internship Award (\$10,000)
- 2018- Ivan Marbaniang, Ph.D. Epidemiology (Co-supervisor: Joseph Cox)
 Healthy Brains for Healthy Lives doctoral fellowship (\$15,000)
 McGill Faculty of Medicine doctoral fellowship (\$12,000), declined

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)
 Department of EBOH Research Day, Oral Presentation First Place Honours (\$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)
 RRSPQ Prix étudiant 2012, thèse de Maîtrise (\$1,000)
- 2010-2012 Julie Héroux, M.Sc. Biostatistics (Co-supervisor: Erin Strumpf)
 Department of EBOH Research Day, Oral Presentation First Place Honours (\$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)
- 2015-2017 *Shouao (Stan) Wang, M.Sc. Biostatistics (Co-supervisor: David Stephens)
- 2016-2017 *Wilhemina Pels, M.Sc. Mathematical Science, African Institute for Mathematical
 Sciences (AIMS), Senegal
- 2016-2018 Cherry Chu, M.Sc. Epidemiology (Co-supervisor: Eric Latimer)
- 2017-2019 *Ferdous Hossain, M.Sc. Biostatistics
 McGill University Faculty of Medicine Graduate Scholarship (\$10,000)
- 2018-2019 Khalida Nasiri, M.Sc. Epidemiology (Co-supervisor: Haim Abenheim)
- 2018- *Larry Dong, M.Sc. Biostatistics, co-tutelle with Universit'e Bordeaux's
 MSc in Digital Public Health (Co-supervisor: Melanie Prague)
 IVADO Excellence Scholarship (\$20,000/year, two years)
- 2018-(2019)Dirk Douwes-Shultz, M.Sc. Biostatistics (Co-supervisor: Alexandra Schmidt)
 Fast-tracked to PhD Program in 2019

Undergraduate trainee supervision

2010 *Mathieu Bray
2011 *Julie Novak
2012 *Yue Ru Sun
2016 *Lara Mayeleff
ISM Undergraduate Summer Research Scholarship, \$3,750
2019 *Zhicong Ma
2019 *Yang Lu

Thesis committee member

2010-2017 Sathya Karunanathan, Ph.D. Epidemiology (Supervisor: Christina Wolfson)
2012-2020 Hiroshi Mamiya, Ph.D. Epidemiology (Supervisors: David Buckeridge, Alexandra Schmidt)
McGill University Faculty of Medicine Graduate Scholarship (\$12,000/year, two years)
CIHR Institute Community Support Travel Award
Award for Outstanding Student or Post-Degree Abstract, 2nd prize, International
Society for Disease Surveillance
2015-2019 Sahar Saeed, Ph.D. Epidemiology (Supervisors: Marina Klein, Erin Strumpf)
CIHR - Frederick Banting and Charles Best Canada Graduate Scholarship Doctoral
Award (Ranked Top 3%, \$35,000/year, three years)
Canadian Institute of Health Research Travel Award \$2449
Infectious Diseases and Immunity in Global Health Travel Award \$2449
FRQS Doctoral Award (ranked 1st in division, \$20,000/year, three years)
Canadian Hepatitis C Network - Doctoral Award (\$23,000/year, three years)
Graduate Research Enhancement and Travel (GREAT) Award \$3000
Best Poster, 2nd Annual Infectious Diseases and Immunity in Global Health
Research Day (\$200)
5th Symposium on Hepatitis C, Best Clinical Presentation (\$500)
Department of EBOH Research Day, Oral Presentation Second Place (\$50)
Three minute Thesis Video Competition, University without Walls, 2nd Prize (\$500)
Young Investigator Award, Conference on Retroviruses and Opportunistic Infections,
2017, 2018 (\$1500 each year)
2018- Lydia Ould Brahim, Ph.D. Nursing (Co-supervisors: Sylvie Lambert & Nancy Feeley)
2020- Shaddam Bagmar Hossain, Ph.D. Biostatistics (Supervisors: Andrea Benedetti &
Mireille Schnitzer)

Other supervision

2016-2017 Celine Brasil, Ph.D. in Medications and Pharmaceutical Assistance
at Universidade Federal de Minas Gerais, Brazil (visiting student, one year)
2018-2019 Widemberg Nobre, Ph.D. in Statistics at Universidade Federal do Rio de
Janeiro, Brazil (visiting student, one year)
2019 Sebastián Martínez, Ph.D. in Statistics at University of Glasgow, UK

- (visiting student, one month)
- 2019 Bianca Granato, Ph.D. in Quantitative Life Sciences, McGill (rotation)
- 2019-2020 Cássia C.P. Mendicino, Ph.D. in Epidemiology at Universidade Federal de Minas Gerais, Brazil (visiting student, one year)
Emerging Leaders in the Americas Program (ELAP) award (\$9,700), declined
CAPES Sandwich Program award from the Brazilian Ministry of Education (\$13,602)
- 2020 Romain Demeulemeester, Ph.D. in Statistics at Université Paul Sabatier, France

Research Assistant supervision

- 2012 *Yue Ru Sun
2013-2014*Jamie Karran
2016-2017*Shomoita Alam

E4. Mentoring activities

Mentorship of new faculty

- 2015-2019 Denis Talbot, Université Laval
2016-2018 Paramita Saha-Chaudhuri, McGill University
2016-2018 Alexandra Schmidt, McGill University
2019-2021 Nicole Basta, McGill University
2020 Alissa Koski, McGill University

Student Mentorship

- 2016 SSC Case Studies competition Faculty Mentor; two teams made up of Biostatistics graduate and Statistics undergraduate students.
- 2017 SSC Case Studies competition Faculty Mentor; two teams made up of Biostatistics graduate and Statistics undergraduate students. First prize won by the team made up of J. Coulombe, S. McGrath, & Z. Wang
- 2018-2019 Graduate student mentor through the U. of Washington Huskies@Work program; two students.
- 2019-2020 Mentor to U. of Winnipeg undergraduate student.

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*
2014-2019 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, Epidemiologic Methods, 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 Multivariate Analysis, Journal of the Royal Statistical Society, Lifetime Data Analysis, Neuroimage, PLoS - Medicine, Statistics in Biosciences, Statistics in Medicine, Statistica Sinica

Reviewer of Book Proposals, Chapters, and Reports

Chapman & Hall, CRC Press, SAS Press, U.S. Department of Education (National Center for Special Education Research), Wiley & Sons.

F2. Grant Reviews

Reviewer for Granting Agencies

2009-2011, NSERC Discovery Grants
2016, 2018
2009 MITACS 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)
2018 Banff International Research Station
2018 Healthy Brains for Healthy Lives Innovative Ideas Awards
2019 Wellcome Trust Sir Henry Dale Fellowships
2020 Health Research Council of New Zealand

Panel Member of Review Committees

2010, 2013 CIHR Public, Community & Population Health Operating Grants
2018
2011-2013 CIHR Meetings, Planning and Dissemination Grants

2013-2015	NSERC Discovery Grants
2017	CIHR Innovative Biomedical and Clinical HIV/AIDS Research Grants
2018	U.S. Department of Education, Institute of Education Sciences Research Training Programs

F3. Administrative Responsibilities and Committees

Department of Epidemiology, Biostatistics, and Occupational Health / School of Population and Global 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	
2015-2017	Member, Recruitment Committee (Biostatistics)
2013	Member, Appointments Committee
2012-2019	Chair, Biostatistics Theory Exam Committee
2014-2015	
2017-2018	Chair, Recruitment Committee (Biostatistics)
2017-2018	Chair, Recruitment Committee (Joint: Biostatistics, Radiology)
2015-2018	Director, Biostatistics Internship Program
2020	Member, Big Data working group

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
2016	Pro-dean (thesis examination) on two occasions
2017-	Director, McGill Health Statistics Training Network
2018-	Member, McGill initiative in Computational Medicine subcommittee on Education
2018-2020	Member, University Tenure Committee for the Faculty of Medicine
2019-2021	Assessor, Harassment & Discrimination Assessment Committee

2019 Reviewer, Faculty of Medicine Internal Grant Review Panel
 2019 Member, Working Group on Salary Equity

National and International

2008-2013 Member, Bilingualism Committee, Statistical Society of Canada
 2009-2014, & 2019-2022 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, SSC
 2013-2016 Co-chair, Causal Inference Topic Group for STRengthening Analytical Thinking for
 Observational Studies, an initiative launched by the International
 Society for Clinical Biostatistics to improve analyses of observational data
 2014-2018 Statistics Representative, Scientific Committee of the CRM
 2014-2017 SSC Representative to the CRM
 2015 Doctoral Thesis Examiner, Université du Québec à Montréal, Department of Mathematics
 2015-2019 Associate Director (Quebec) of CANSSI
 2015-2019 Member, Nominating Committee for the Scientific Advisory Committee of CANSSI
 2016-2017 Scientific Program Chair, SSC 2017 Annual Meeting
 2016 Doctoral Thesis Examiner, Université Paris Ouest Nanterre, Mathematics Department
 2016- Steering Group, Causal Inference Topic Group for STRATOS
 2018 Doctoral Thesis Examiner, University of Waterloo, Department of Statistics & Actuarial
 Sciences
 2018-2019 Chair, Respectful SSC Committee
 2019 Search Committee for the Regional Director of the CANSSI-Quebec Regional Centre
 2019-2020 Member, Advisory Board of CANSSI-Quebec
 2019-2020 Judge, ASA Health Policy Statistics Section student award competition
 2020 Member, CRM StatLab-CANSSI postdoctoral fellowship award committee

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

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.

I am a member of both the Liver Working Group and the Mental Health Working Group of the North American AIDS Cohort Collaboration on Research and Design (NA-ACCORD).

G2. Grants Obtained

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

1. CIHR Foundation Scheme grant – Advancing the methodological frontiers of adaptive treatment strategies, \$497,872 (2019–2027).
2. FRQNT Programme Samuel de Champlain de développement de partenariats stratégiques en matière d’enseignement et de recherche – Modélisation du recrutement dans le cadre d’essais séquentiels pour des algorithmes de traitement des soins adaptatifs des maladies chroniques: une étude statistique, \$18,300 (+ 12,750Euros to French co-I St-Pierre) (2019-2021).
3. *NSERC Discovery Grant – Causal inference in network settings, \$230,000 (2019–2024).
4. NIMH R01 – Improved tailoring of depression care using customized clinical decision support. \$1,511,994 (2018–2022) Co-PI: Susan Shortreed (Kaiser Permanente Washington Research Institute), co-investigator: Gregory Simon (Kaiser Permanente)
5. CANSSI Workshop Grant – Causal inference in the presence of dependence and network structure: modelling strategies and model selection, \$12,000 (2018). Co-organizers: Alexandra Schmidt, David Stephens
6. PIMS Workshop Grant – Causal inference in the presence of dependence and network structure: modelling strategies and model selection, \$4,500 (2018). Co-organizers: Alexandra Schmidt, David Stephens
7. Healthy Brains for Healthy Lives Innovative Ideas Award – A personalized approach to depression care: Discovering adaptive treatment strategies, \$131,695 (2018-2020). Co-investigators: Samy Suissa (McGill), Christel Renoux (Lady Davis Research Institute).
8. CANSSI Workshop Grant – Risk modeling, management and mitigation in health sciences, \$8,000 (2017). Co-organizers: Daniel Graham (Imperial College London), Nicholas Jewell (University of California, Berkeley) and David Stephens (McGill).
9. CANSSI Distinguished Visitor Program Grant. \$3,050 (2017). Co-organizers: Gabrielle Simoneau, Marie-Pier Côté.

10. CIHR Catalyst Grant (SPOR Innovative Clinical Trials) – Adaptive internet-based stress management: A pilot sequential multiple assignment randomized trial (SMART) design. Co-PI: Sylvia Lambert (McGill), \$99,998 (2017–2018)
11. CIHR Operating Grant – Personalized medicine using registry cohort data: Developing an adaptive treatment strategy to prevent and treat graft-versus-host disease, \$54,000 (2017–2018). Co-investigators: David Stephens (McGill), Elizabeth Krakow (Fred Hutchinson Cancer Research Center).
12. CANSSI Health Science Collaborating Centre seed grant – McGill Health Statistics Training Network. \$10,000 (2017).
13. CANSSI Distinguished Visitor Program Grant. \$3,000 (2016). Co-organizers: Kevin McGregor, Gabrielle Simoneau.
14. 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).
15. 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).
16. *NSERC Discovery Grant – A new framework for estimation and inference of optimal dynamic treatment regimes, \$140,000 (2014–2019).
17. 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.
18. Quebec Population Health Research Network Book-writing Grant – Dynamic treatment regimes for personalized medicine, \$5,000 (2011). Co-investigator: Bibhas Chakraborty (Columbia University).
19. CIHR Meetings, Planning and Dissemination Grants – Causal inference in health research, \$10,410 (2011). Co-organizers (McGill University): Jay Kaufman, Robert Platt.
20. *MITACS Networks and Training Program – Causal inference in health research, \$15,000 (2011).
21. *NSERC Discovery Grant – Optimal adaptive treatment strategies: Finding practical solutions to inferential challenges, \$80,000 (2009–2014).
22. 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.
23. *NSERC Discovery Grant – Optimal dynamic treatment regimes: Extending the framework, \$36,000 (2006–2009).
24. McGill University Start-up Grant, \$50,000 (2006).

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

25. CIHR Project Grant – The role of fatty liver in the epidemic of advanced chronic liver disease among people living with HIV. PI: Giada Sebastiani. \$685,440 (2019–2024)

26. MEDTEQ Ministère de l'Économie et de l'Innovation (MÉI) – Un système de santé apprenant pour la gestion de la douleur chronique : Une plateforme numérique avec une perspective de réseau. PI: Sara Ahmed and Regina Visca \$589,306 (2019–2022)
27. Heart and Stroke Foundation – Anticoagulants oraux et prévention de la démence chez les patients atteints de fibrillation auriculaire : étude de cohorte en population générale. PI: Christel Renoux. \$151,870 (2019–2021)
28. CIHR Project Grant – Antiretroviral-based HIV prevention and its impact on sexual risk behaviours and HIV/STIs among gay, bisexual and other men who have sex with men: Engage Cohort Study. PI: Joseph Cox et al., \$2,673,676 (2019–2023)
29. FRQNT Team Grant – Méthodes d'inférence causale et la prise de décision dans un cadre bayésien. PI: David Stephens, \$205,740 (2018–2021)
30. CIHR Catalyst Grant (SPOR Innovative Clinical Trials) – An adaptive dyadic self-directed coping and self-management skills training intervention for caregivers of individuals with cancer: A pilot sequential multiple assignment randomized trial (SMART) design. PI: Sylvia Lambert, \$99,969 (2017–2018)
31. CIHR Catalyst Grant – Biostatistical methods for estimating the cumulative impact of environmental contaminant exposures on preterm birth. PI: Lawrence McCandless, \$198,330 (2017–2019)
32. CIHR Project Grant – New statistical methods for cohort studies of adverse effects of medications. PI: Michal Abrahamowicz, \$753,035 (2016–2021)
33. SAMSI Workshop Grant – Statistical causal inference and its applications to genetics. PI: Robin Evans (University of Oxford), \$6,500USD (2016)
34. 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)
35. CIHR Foundation Scheme – Statistical methods in pharmacoepidemiology and perinatal epidemiology. PI: Robert Platt, \$1,071,721 (2015–2022)
36. 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)
37. 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)
38. CIHR Operating Grant – Understanding blood pressure and end organ damage in adolescents. PI: Michael Zapitelli, \$438,115 (2014–2018)
39. CIHR Bridge Grant – The coming revolution in HCV therapy: Will HIV-HCV co-infected patients really benefit? PI: Marina Klein, \$100,000 (2014–2015).
40. 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).
41. CIHR Operating Grant – Propensity scores and marginal structural models in drug safety research, PI: Robert Platt, \$405,940 (2012–2015).
42. 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).

43. CIHR Operating Grant – Development of strategies to curb the Quebec HIV epidemic based on molecular epidemiological surveillance, PI: Bluma Brenner, \$311,718 (2011–2014).
44. 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).
45. FRQNT Team Grant – Méthodes statistiques pour les études multiniveaux, PI: Nandini Dendukuri, \$145,800 (2008–2011).
46. NIH Operating Grant – Soy-rich diet for preventing chronic post breast cancer surgery pain, PI: Yoram Shir, \$236,446 (2008–2010).

As Collaborator: Title, PI, total (years)

47. CIHR AI Summer School – AI for public health (AI4PH): A focus on equity and prevention, PI: David Buckeridge, \$525,000 (2019–2024).
48. MRC Methodology Research Programme Grant – Comparative Effectiveness Research using OBServational data: methodological developments and a roadmap (CER-OBS), PI: Bianca de Stavola

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

G3a. Articles published in peer-reviewed journals

Methodological and statistical papers -

1. **Simoneau G.**, Moodie E. E. M., and Platt R. P. Finite sample variance estimation for optimal dynamic treatment regimes of survival outcomes. Submitted to *Statistics in Medicine* (invited revision)
2. Moodie E. E. M. and Krakow E. F. (2020) Precision medicine: Statistical methods for estimating adaptive treatment strategies *Bone Marrow Transplantation* (accepted)
3. Moodie E. E. M. and Stephens D. A. (2020) Clarifying endogeneous data structures and consequent modelling choices using causal graphs *Statistical Science* (accepted)
4. Shortreed S. M. and Moodie E. E. M. (2020) Automated analyses: Because we can, does it mean we should? *Statistical Science* (accepted)
5. **Simoneau G.**, Moodie E. E. M., Azoulay L., and Platt R. W. (2020) Adaptive treatment strategies with survival outcomes: An application to the treatment of Type 2 Diabetes using a large observational database. *American Journal of Epidemiology* <https://doi.org/10.1093/aje/kwz272>
6. **Wallace M. P.**, Moodie E. E. M., and Stephens D. A. (2020) Model selection for G-estimation of dynamic treatment regimes. *Biometrics* (accepted).
7. **Simoneau G.**, Moodie E. E. M., Platt R. W., and Nijjar J. S. (2020) Estimating optimal dynamic treatment regimes with survival outcomes. *Journal of the American Statistical Association* (accepted). *This paper won the Lifetime Data Science (LiDS) 2019 Student Paper Competition.*
8. **Capistrano E. S. M.**, Moodie E. E. M., and Schmidt A. M. (2019) Bayesian estimation of the average treatment effect on the treated using inverse weighting. *Statistics in Medicine* **38**:2447–2466.
9. **Alam S.**, Moodie E. E. M., and Stephens D. A. (2019) Should a propensity score model be super? The utility of ensemble procedures for causal adjustment. *Statistics in Medicine* **38**:1690–1702.

10. **Saeed S., Moodie E. E. M., Strumpf E. C. and Klein M. B.** (2019) The difference-in-differences approach to evaluate health policies. *International Journal of Public Health* **64**:637–642.
11. **Kyle R. P., Moodie E. E. M., Abrahamowicz M., and Klein M. B.** (2019) Evaluating flexible modeling of continuous time-varying covariates in inverse weighted estimators. *American Journal of Epidemiology* **188**:1181–1191.
12. **Moodie E. E. M., Stephens D. A., Alam S., Zhang M.-J., Logan B., Arora M., Spellman S., and Krakow E. F.** (2019) A cure-rate model for Q-learning: Estimating an adaptive immunosuppressant treatment strategy for allogeneic hematopoietic cell transplant patients. *Biometrical Journal* **61**:442–453.
13. **Moodie E. E. M., Saarela O., and Stephens D. A.** (2018) A doubly robust weighting estimator of the average treatment effect on the treated. *Stat* **7**:e205, doi:10.1002/sta4.205
14. **Pels, W. A., Alam S., Carpp L. N., and Moodie E. E. M.** (2018) A call caution in using information criteria to select the working correlation structure in generalized estimating equations. *Epidemiology* **29**:e51–e52.
15. **Parveen N., Moodie E. E. M., Cox J., Lambert G., Roger M., Otis J., and Brenner B.** (2018) New challenges in HIV research: Combining phylogenetic cluster size and epidemiological data. *Epidemiologic Methods* doi:10.1515/em-2017-0017
16. **Wallace M. P., Moodie E. E. M., and Stephens D. A.** (2018) Reward ignorant modeling of dynamic treatment regimes. *Biometrical Journal* **20**:991–1002.
17. **Moodie E. E. M., Stephens D. A., and Wallace M. P.** (2018) G-estimation. *Wiley StatsRef* doi:10.1002/9781118445112.stat08046
18. **Simoneau G., Moodie E. E. M., Platt R. W., and Chakraborty B.** (2018) Non-regular inference for dynamic weighted ordinary least squares: Understanding the impact of solid food intake in infancy on childhood weight. *Biostatistics* **19**:233–246.
19. **Saeed S., Moodie E. E. M., Strumpf E. C. and Klein M. B.** (2018) Segmented generalized mixed effect models to evaluate health outcome. *International Journal of Public Health* **63**:547–551.
20. **Moodie E. E. M. and Stephens D. A.** (2017) Dynamic treatment regimes. *Wiley StatsRef* doi:10.1002/9781118445112.stat08040.
21. **Moodie E. E. M. and Stephens D. A.** (2017) Treatment prediction, balance and propensity score adjustment. *Epidemiology* **28**e51–e53.
22. **Wallace M. P., Moodie E. E. M., and Stephens D. A.** (2017) Model validation and selection for personalized medicine using dynamic weighted ordinary least squares. *Statistical Methods in Medical Research* **26**:1641–1653.
23. **Wallace M. P., Moodie E. E. M., and Stephens D. A.** (2017) Dynamic treatment regimen estimation via regression-based techniques: Introducing R Package DTRreg. *Journal of Statistical Software* **80**:1–20.
24. **Krakow E. F., Hemmer M., Wang T., Logan B., Arora M., Spellman S., Couriel D., Alousi A., Pidala J., Last M., Lachance S., and Moodie E. E. M.** (2017) 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* **186**:160–172. *This paper was chosen by the Editors as one of AJE's 2017 Articles of the Year.*
25. **Parveen N., Moodie E. E. M., and Brenner B.** (2017) Correcting covariate-dependent measurement error with non-zero mean. *Statistics in Medicine* **36**:2786–2800.

26. Suissa S., Dell’Aniello S., and Moodie E. E. M. (2017) New-user cohort designs for comparative drug studies by conditional propensity scores. *Pharmacoepidemiology & Drug Safety* **26**:459–468. *This paper was selected for the Robert D. Mann Bets Paper Award.*
27. **Wallace M. P.**, Moodie E. E. M., and Stephens D. A. (2017) An R package for g-estimation of structural nested mean models. *Epidemiology* **28**:e18–e20.
28. **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* **111**:1530–1534.
29. 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.
30. **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* **84**:249–258. *This paper was one of three finalists for the 2016 Epidemiology Congress of the Americas, Reuel Stallones Student Prize Paper Award.*
31. 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* **72**:865–876.
32. **Wallace M. P.**, Moodie E. E. M., and Stephens D. A. (2016) Model assessment in dynamic treatment regimen estimation via double robustness. *Biometrics* **72**:855–864.
33. **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* **184**:315–324.
34. **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.
35. **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.
36. **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**:502–517.
37. **Saarela O.**, Arjas E., Stephens D. A., and Moodie E. E. M. (2015) Predictive Bayesian inference and dynamic treatment regimes. *Biometrical Journal* **57**:941–958.
38. **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.
39. 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.
40. **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.
41. **Wallace M. P.** and Moodie E. E. M. (2015) Doubly-robust dynamic treatment regimen estimation via weighted least squares. *Biometrics* **71**:636–644.
42. **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.

43. **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.
44. **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.
45. **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.
46. **Naimi A. I.**, Moodie E. E. M., Auger A., and Kaufman J. S. (2014) Semiparametric adjusted exposure-response curves. *Epidemiology* **25**:919–922.
47. 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.
48. Moodie E. E. M., Dean N. and **Sun Y. R.** (2014) Q-learning: Flexible learning about useful utilities. *Statistics in Biosciences* **6**:223–243.
49. **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.*
50. **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.
51. **Wallace M. P.** and Moodie E. E. M. (2014) Personalizing medicine: A review of adaptive treatment strategies. *Pharmacoepidemiology & Drug Safety* **23**:580–585.
52. **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.
53. **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.
54. 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.
55. **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.
56. **Naimi A. I.**, Moodie E. E. M., Auger A. and Kaufman J. S. (2014) Constructing inverse probability weights for continuous exposures: a comparison of methods. *Epidemiology* **25**:292–299.
57. **Regier M. D.**, Moodie E. E. M., and Platt R. W. (2014) The effect of error-in-confounders on the estimation of the causal parameter when using marginal structural models and inverse probability-of-treatment weights: A simulation study. *The International Journal of Biostatistics* **10**:1–10, doi: 10.1515/ijb-2012-0039.
58. **Schnitzer M.**, Moodie E. E. M., and Platt R. W. (2013) Targeted maximum likelihood for longitudinal marginal structural models under density misspecification. *Biostatistics* **14**:1–14.

59. **Xiao Y.**, Moodie E. E. M., and Abrahamowicz M. (2013) Comparison of approaches to weight truncation for marginal structural Cox models. *Epidemiologic Methods* **2**:1–20, doi: 10.1515/em-2012-0006.
60. 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.
61. 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.
62. 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.
63. 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.
64. 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.
65. 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.
66. **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.
67. **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.
68. **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.
69. Moodie E. E. M. and Richardson T. S. (2009) Estimating optimal dynamic regimes: Correcting bias under the null. *The Scandinavian Journal of Statistics* **37**:126–146.
70. Moodie E. E. M. (2009) A note on the variance of doubly-robust G-estimates. *Biometrika* **96**:998-1004.
71. Moodie E. E. M. (2009) Risk factor adjustment in marginal structural model estimation of optimal treatment regimes. *Biometrical Journal*, **51**:774–788
72. 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.
73. 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.
74. 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.
75. Moodie E. E. M., Richardson, T. S., and Stephens, D. A. (2007) Demystifying optimal dynamic treatment regimes. *Biometrics*, **63**:447–455.
76. 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.

77. Currie J. D., Moodie E. E. M. (2003) A word on 7 letters which is non-repetitive up to mod 5. *Acta Informatica*, **39**:451–468.

Substantive papers -

78. Latimer E. A., Rabouin D., Cao Z., Ly A., Powell G., Aubry T., Distasio J., Hwang S. W., Somers J. M., Bayoumi A. M., Mitton C., Moodie E. E. M., and Goering P. (2020) Cost-effectiveness of Housing First with assertive community treatment: Results from the Canadian At Home/Chez Soi trial. *Psychiatric Services* (accepted)
79. **Nasiri K.**, Moodie E. E. M., and Abenheim H. A. (2020) To what extent is the association between race and fetal growth restriction explained by adequacy of prenatal care? A mediation analysis of a retrospective cohort. *American Journal of Epidemiology* (accepted)
80. **Chu C. M. T.**, Moodie E. E. M., Streiner D. L. and Latimer E. A. (2020) Trajectories of homeless shelter utilization in the At Home/Chez Soi trial of Housing First. *Psychiatric Services* (accepted)
81. **Saeed S.**, Strumpf E. C., Moodie E. E. M., Wong L., Cox J., Walmsley S., Tyndall M., Cooper C., Conway B., Hull M., Martel-Laferriere V., Gill M. J., Wong A., Vachon M. L., and Klein M.B., for the Canadian Co-Infection Cohort Study Investigators (2020) Eliminating structural barriers: The impact of unrestricted access on hepatitis C treatment uptake among people living with HIV. *Clinical Infectious Disease* (in press)
82. Latimer E., Rabouin D., Cao Z., Ly A., Powell G., Adair C. E., Sareen J., Somers J., Stergiopoulos V., Pinto A., Moodie E. E. M. and Veldhuizen S. for the At Home/Chez Soi Investigators. (2019) Cost-effectiveness of Housing First with Intensive Case Management compared to treatment as usual for homeless adults with mental illness. *JAMA Network Open* **2**:e199782.
83. **Mamiya H.**, Schmidt A. M., Moodie E. E. M., Ma Y., and Buckeridge D. (2019) An area-level indicator of latent soda demand: Spatial statistical modeling of grocery store transaction data to characterize the nutritional landscape in Montreal, Canada. *American Journal of Epidemiology* **188**:1713–1722.
84. Karunanathan S., Moodie E. E. M., Bergman H., Payette H., Wolfson D., Diehr P. H., and Wolfson C. (2019) The association between physical function and proximity to death in older adults: A multilevel analysis of 4,150 decedents from the Cardiovascular Health Study. *Annals of Epidemiology* **35**:59–65.
85. Kronfli N., Bhatnagar S. R., Hull M. W., Moodie E. E. M., Walmsley S., Gill J., Cooper C., Martel-Laferriere V., Pick N., Cox J., and Klein M. B. (2019) Trends in cause-specific mortality in HIV-Hepatitis C co-infection following hepatitis C treatment scale-up. *AIDS* **33**:1013–1022.
86. **Almeida-Brasil C. C.**, Moodie E. E. M., Cardoso T. S., Nascimento E., and Ceccato M. G. B. (2018) Comparison of the predictive performance of adherence measures for virologic failure detection in people living with HIV: a systematic review and pairwise meta-analysis. *AIDS Care* **31**:647–659.
87. Kronfli N., Nitulescu R., Cox J., Moodie E. E. M., et al. (2018) Previous incarceration impacts access to hepatitis C virus (HCV) treatment among HIV-HCV co-infected patients in Canada. *Journal of the International AIDS Society* **21**:e25197
88. Ustun C., Morgan E., Moodie E. E. M., et al. (including **Coulombe J.**). (2018) Core-binding factor acute myeloid leukemia with t(8;21): Risk factors and a novel scoring system (I-CBFit). *Cancer Medicine* **7**:4447–4455.

89. **Saeed S., Moodie E. E. M.,** Strumpf E. C., Gill M. J., Wong A., Cooper C., Walmsley S., Hull M., Martel-Laferriere V., and Klein M. B. (2018) Real-world impact of direct acting antiviral therapy on health-related quality of life in HIV-Hepatitis C co-infected individuals. *Journal of Viral Hepatitis* **25**:1507–1514.
90. **Mamiya H., Moodie E. E. M.,** Ma Y., and Buckeridge D. (2018) Susceptibility to price discounting of soda by neighborhood educational status: An ecological analysis of disparities in soda consumption using point-of-purchase transaction data in Montreal, Canada. *International Journal of Epidemiology* **47**:1877–1886.
91. **McLinden T., Moodie E. E. M.,** Hamelin A.-M., Harper S., Walmsley S. L., Paradis G., Klein M. B., and Cox J. (2018) Injection drug use, food insecurity, and HIV-HCV co-infection: a longitudinal cohort analysis. *AIDS Care* **30**:1322–1328.
92. **Almeida-Brasil C. C., Moodie E. E. M., McLinden T.,** Hamelin A.-M., Walmsley S. L., Rourke S. B., Wong A., Klein M. B., and Cox J. (2018) Medication non-adherence, multi-tablet regimens, and food insecurity are key experiences in the pathway to incomplete HIV suppression. *AIDS* **32**:1323–1332.
93. **Rossi C., Saeed S., Cox J., Vachon M.-L., Martel-Laferrière V., Walmsley S., Cooper C., Gill M. J., Hull M., Moodie E. E. M.,** and Klein M. B. for the Canadian Co-Infection Cohort Investigators. (2018) Hepatitis C virus cure does not impact kidney function in HIV co-infected patients. *AIDS* **32**:751–759.
94. Aibibula W., Cox J., Hamelin A.-M., **Moodie E. E. M.,** Klein M. B., and Brassard P. (2018) Association between depressive symptoms, CD4 count and HIV viral suppression among HIV-HCV co-infected people. *AIDS Care* **30**:643–649.
95. **McLinden T., Moodie E. E. M.,** Hamelin A.-M., Harper S., **Rossi C.,** Klein M. B., and Cox J. (2018) Methadone treatment, severe food insecurity, and HIV-HCV co-infection: a propensity score matching analysis. *Drug and Alcohol Dependence* **20**:374–380.
96. Aibibula W., Cox J., Hamelin A.-M., **Moodie E. E. M.,** Naimi A. I., **McLinden T.,** Klein M. B., and Brassard P. (2018) Food insecurity may lead to incomplete HIV viral suppression and less immune reconstitution among HIV-HCV co-infected people. *HIV Medicine* **19**:123–131.
97. **Saeed S.,** Strumpf E. C., **Moodie E. E. M.,** Young J., Nitulescu R., Cox J., Wong A., Walmsley S., Cooper C., Vachon M. L., Martel-Laferriere V., Hull M., Conway B., and Klein M. B. for the Canadian Co-Infection Cohort Study. (2017) Disparities in direct acting antivirals uptake in HIV-hepatitis C co-infected populations in Canada. *Journal of the International AIDS Society* **20**: e25013.
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99. Aibibula W., Cox J., Hamelin A.-M., **Moodie E. E. M.,** Naimi A. I., **McLinden T.,** Klein M. B., and Brassard P. (2017) Impact of food insecurity on depression status among HIV-HCV co-infected people. *AIDS & Behavior* **21**:3464-3472
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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. Philadelphia, PA.

G3d. Book Chapters

1. **Krakow E. K.** and Moodie E. E. M. (2018) Tools for the precision medicine era: developing highly adaptive and personalized treatment recommendations using SMARTs. 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. (2018) Longitudinal targeted maximum likelihood estimation 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. Lambert G., Cox J., Messier-Peet M., Apelian H., Moodie E. E. M. et les membres de l’équipe de recherche Engage. Engage Montréal, Portrait de la santé sexuelle des hommes de la région métropolitaine de Montréal ayant des relations sexuelles avec des hommes, Cycle 2017-2018, Faits saillants. Direction régionale de santé publique du CIUSSS du Centre-Sud-de-l’Île-de-Montréal, janvier 2019.
2. 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
3. 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* **61**:1206–1207.
4. 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.
5. 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.
6. Kramer M.S., Moodie E. E. M., Dahhou M., and Platt R.W. Response to “Causation or ‘noitasuaC’?” *American Journal of Epidemiology*, **173**: 988-989.
7. 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.
8. **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
9. 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.
10. 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).
11. Moodie E. E. M. (2004) Letter to the editor. *Clinical Trials*, **1**: 471.

G3f. Conference Presentations

Conference presentations (invited) -

1. Computational Methods for Modeling and Precision Medicine in Neurodegeneration workshop, Montreal Neurological Institute, Montreal (November, 2019) Sequential decision-making with observational data: challenges and opportunities.
2. SAMSI Precision Medicine Transition Workshop, Durham North Carolina (May, 2019) Sequential decision-making with observational data.
3. McGill initiative on Computational Medicine Symposium, Montreal, QC (November, 2018) Statistical perspectives on precision medicine: Tailoring immunosuppressant therapy to transplant patients. Keynote address.
4. JSM, Vancouver, BC (August, 2018) Shared-parameter G-estimation of optimal treatments for rheumatoid arthritis.
5. SSC Annual Meeting, Montreal, QC (June, 2018) Shared-parameter G-estimation of optimal treatments for rheumatoid arthritis.
6. ENAR/IBS Meeting, Atlanta, GA (March, 2018) Shared-parameter G-estimation of optimal treatments for rheumatoid arthritis.
7. Atelier de maillage, Montreal, QC (March 2018) CANSSI: The role of statisticians in data science.
8. Statistics and Health Conference, Toulouse Institute of Mathematics and the International Centre for Mathematics and Computer Science in Toulouse, France (January, 2018). An introduction to SMART designs. Keynote address.
9. Canadian Network for Observational Drug Effect Studies (CNODES) Semi-Annual Research Meeting, Montreal, QC (October, 2017) Dynamic treatment regimes: Statistical perspectives on a personal approach to medical decision-making.
10. Innovative Statistics and Machine Learning for Precision Medicine, Institute for Mathematics and its Applications, Minneapolis, MN (September, 2017) Doubly-robust estimation of shared-parameter adaptive treatment strategies.
11. International Society for Clinical Biostatistics (ISCB), Vigo, Spain (July, 2017) Personalizing immunosuppressant regimes following transplantation.
12. Blood and Marrow Transplantation (BMT) Tandem Meetings, Orlando, FL (February, 2017) An introduction to adaptive treatment strategies.
13. Joint Statistical Meetings (JSM), Chicago, IL (August, 2016) The vexing problem of analyzing real data: Discussion of ‘Personalized dose finding using outcome weighted learning’.
14. Joint Statistical Meetings (JSM), Chicago, IL (August, 2016) Model validation and selection in estimation of dynamic treatment regimes.
15. 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?
16. 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.

17. World Statistics Congress, Rio de Janeiro, Brazil (July, 2015) A cure-rate model for estimating the optimal dynamic treatment sequence following bone marrow transplantation.
18. 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.
19. United Kingdom Causal Inference Meeting, Bristol, UK (April, 2015) Correcting measurement error in HIV phylogenetic cluster size.
20. 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.
21. United Kingdom Causal Inference Meeting, Cambridge, UK (April, 2014) Addressing measurement error in the confounders in inverse probability weighting.
22. 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. Keynote address.
23. Joint Statistical Meetings (JSM), Montreal, QC (August, 2013) Q-learning with a useful utility.
24. Conference for the Society for Clinical Trials, Boston, MA (May, 2013) Generating candidate optimal individualized dosing strategies.
25. University of Pennsylvania 6th Annual Conference on Statistical Issues in Clinical Trials, Philadelphia, PA (April, 2013) Generating candidate optimal individualized dosing strategies.
26. Eastern North American Region of the International Biometric Society (ENAR/IBS) Meeting, Orlando, FL (March, 2013) Generating candidate optimal individualized dosing strategies.
27. 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".
28. SSC, Guelph, ON (June, 2012) Q-learning for Estimating Optimal Dynamic Treatment Rules from Observational Data.
29. 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.
30. 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.
31. 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.
32. Joint Statistical Meetings (JSM), Washington D.C. (August, 2009) Structural nested mean modeling of response-maximized breastfeeding strategies.
33. 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.

34. 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.
35. 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.
36. 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.
37. 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. University of Washington, Biostatistics Seminar Series (January, 2020) Doubly robust estimation of adaptive treatment strategies through weighted regression.
2. McGill University, Biostatistics Seminar Series (November, 2019) Social interference: Inference in the presence of influential friends.
3. University of North Carolina, Biostatistics Seminar Series (November, 2019) Doubly robust estimation of adaptive treatment strategies through weighted regression.
4. McGill University, Quantitative Life Sciences Seminar Series (December, 2018) SMART studies: An evidence-based approach to precision medicine.
5. McGill University, Cutting Edge Lectures in Science (December, 2018) Did this make that happen? What statisticians have to say about causality.
6. Université de Québec à Montréal, Séminaire Statistique (December, 2018) Statistical approaches to precision medicine: An overview.
7. Ipsen – Cambridge, MA location (December, 2018) SMART studies: An evidence-based approach to precision medicine
8. University of Winnipeg, Department of Mathematics and Statistics (September, 2018) An introduction to causal inference in statistics.
9. Université de Montréal, Faculté de pharmacie (December, 2017) Adaptive treatment strategies: An introduction from a statistical perspective.
10. Johns Hopkins University, Bloomberg School of Public Health, Department of Biostatistics (October, 2017) G-estimation: Is it all you need?
11. 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.
12. Dartmouth University, Department of Biostatistics and Epidemiology (May, 2015) SMART studies and the personalization of medical care.
13. University of Glasgow, Department of Statistics (May, 2014) SMART studies and the personalization of medical care.

14. Oxford University, Department of Statistics (April, 2014) SMART studies and the personalization of medical care.
15. London School of Hygiene and Tropical Health, Centre for Statistical Methodology (April, 2014) SMART studies and the personalization of medical care.
16. 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.
17. Cambridge University, Medical Research Council Biostatistics Unit (March, 2014) How SMART is your study? Obtaining quality data to estimate dynamic treatment regimes.
18. Oxford University, Centre for Statistics in Medicine (January, 2014) How SMART is your study? Obtaining quality data to estimate dynamic treatment regimes.
19. Université de Sherbrooke, Department of Mathematics (April, 2013) The current state of Q-learning for personalized medicine.
20. McGill University, Department of Mathematics & Statistics. (September, 2012) The current state of Q-learning for personalized medicine.
21. Ghent University, Center for Statistics. (July, 2012) Learning of optimal dynamic treatment rules from observational data.
22. McGill University, Department of Epidemiology, Biostatistics, & Occupational Health – Epidemiology seminar series. (March, 2012) Learning about optimal personalized treatment rules from observational data.
23. Harvard School of Public Health (September, 2010) Marginal structural models for competing risks.
24. London School of Hygiene and Tropical Medicine, Medical Statistics Unit (August, 2009) Structural nested modeling of optimal breastfeeding strategies.
25. MUHC Department of Clinical Epidemiology (March, 2009) Estimating unbiased dose-response curves from repeated measures in the presence of confounding.
26. 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.
27. Laval University, Department of Statistics (March, 2008) The multivariate generalized propensity score: Estimating dose-response functions from longitudinal data.
28. 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.
29. 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.
30. 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.
31. University of Winnipeg, Department of Mathematics and Statistics. (April, 2007) Optimal adaptive treatment regimes: unbiased estimation for endogenous variables.

32. 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.
33. 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 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. Co-organized the Healthy Brains for Healthy Lives Annual Symposium, held at McGill University, May 7, 2020.

2. Co-organized a half-day *Longitudinal data & causal inference symposium* at McGill University, March 24, 2020.
3. As a Program Leader, co-organizing a year-long programme on *Precision Medicine* at the Statistical and Applied Mathematical Sciences Institute, August 1, 2018-May 31, 2019. Involvement includes co-chairing a working group with regular (approximately weekly) online meetings and planning of the Opening Workshop, held August 13-17, 2018.
4. Co-organized a four-week short programme entitled *Causal inference in the presence of dependence and network structure: modelling strategies and model selection* at the CRM, June 11-July 6, 2018. The CRM contributed \$52,000 towards the meeting. Financial support was also provided by CANSSI (\$12,000) and PIMS (\$4,500).
5. Co-organized a three-day workshop entitled *Risk Modeling, Management and Mitigation in Health Sciences* at the Centre de Recherches Mathématiques (CRM), December 12-13, 2017. The CRM contributed \$15,000 towards the meeting. CANSSI also provided financial support.
6. Co-organized a four-week short programme entitled *Statistical Causal Inference and its Applications to Genetics* at the CRM, July 25-August 19, 2016. The CRM contributed \$25,000 towards the meeting. Financial support was also obtained from CANSSI and PIMS.
7. 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.
8. 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.
9. 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 CRM, which was held in Montreal, QC June 9, 2014.
10. 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 CRM, which was held in Montreal, QC May 9-13, 2011. The CRM contributed \$25,000 towards the meeting.
11. 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 CRM, Montreal, QC, April 14-15, 2011. The CRM contributed \$15,000 towards the meeting.
12. Organized and chaired an Invited Session (sponsored by WNAR) at the Joint Statistical Meeting in Vancouver, BC, July 31-August 6, 2010.
13. Chaired a contributed session on “Biostatistics” at the Statistical Society of Canada (SSC) Meeting; Quebec, QC, May 22-26, 2010.
14. Organized a five-day workshop along with David Stephens (Mathematics and Statistics, McGill) entitled *Causal Inference in Statistics and the Quantitative Sciences* at BIRS, May 3-8, 2009.
15. 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 the CRM in Montreal, QC, April 4, 2009.

16. 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.
17. Led a working group on “Practical Challenges and Applications” in the SAMSI summer programme on Dynamic Treatment Regimes and Multistage Decision-Making; Durham, NC. June 25-27, 2007.

G3g. Software

DTR_{reg}: Dynamic treatment regime estimation & inference via G-estimation, dynamic WOLS, and Q-learning; implemented in R.

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.

ACRONYMS

CAN-AIM	CAndian Network for Advanced Interdisciplinary Methods
CANSSI	Canadian Statistical Sciences Institute
CIHR	Canadian Institutes of Health Research
CRM	Centre de recherches mathématiques
DSEN	Drug Safety and Effectiveness Network
ENAR	Eastern North American Region of the IBS
FRQNT	Fonds de recherche du Québec - Nature et technologie
FRQS	Fonds de recherche du Québec - Santé
IBS	International Biometrics Society
ISM	Institut des sciences mathématiques
IVADO	Institut de valorisation des données
JSM	Joint Statistical Meetings
MITACS	Mathematics of Information Technology and Complex Systems
NIMH	(U.S.)National Institute of Mental Health
NSERC	Natural Sciences and Engineering Research Council
RRSPQ	Réseau de recherche en santé des populations du Québec
SER	Society for Epidemiologic Research
SPOR	Strategy for Patient-Oriented Research
SSC	Statistical Society of Canada
STRATOS	STRengthening Analytical Thinking for Observational Studies
WNAR	Western North American Region of the IBS