

Curriculum Vitæ – Erica E. M. Moodie

February 9, 2022

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

A. IDENTIFICATION

Name: Erica Eleanor Margret Moodie
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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, 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, McGill 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
 2021-2028 CIHR Canada Research Chair Tier 1, \$1,400,000
 2021-2025 FRQS Chercheur-boursier de mérite, \$120,000 (salary; declined due to Canada Research Chair)
 plus research funding of \$280,000 (reduced to \$180,000 due to Canada Research Chair)

Recognitions

2015	Elected Member, International Statistical Institute
2015-2021	William Dawson Scholar, McGill University
2017, 2019	EBOH Excellence in Mentoring Award
2018	Principal's Prize for Outstanding Emerging Researchers
2020	CRM-SSC Prize
2021	EBOH EPIB Teaching Award
2021-22	Thank a Prof program acknowledgement

E. TEACHING

E1. Graduate Courses

Department of Epidemiology and Biostatistics, McGill University

Course title	Course no.	Credits*	Year	No. students
Advanced Generalized Linear Models: Correlated Data	BIOS 612	4	2007	4
			2009	5
			2010	10
			2013	10
			2015	10
Principles of Inferential Statistics	EPIB 607	4	2007	21
			2008	29
			2010	27
			2012	40
Epidemiology Regression Models II	BIOS 602	4	2016	10
			2017	11
			2018	9
			2019	10
			2021	12
Biostatistics Protocol Defense [†]	BIOS 702	0	2019-20	8
			2021	8
Correlated Data	EPIB 627	3	2020	15
			2021	13

*Each credit corresponds to 13 hours of in-class teaching. E.g. a 3-credit class has 39 hours in class.

[†]BIOS 702 consists of PhD thesis research proposals, and is listed in the McGill calendar as 0 credits.

E2. Short Courses and Tutorials

Year	Course Title	Location	In-class hours	No. Students
2014	Longitudinal Data Methods	Imperial College London	15	17
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	An Introduction to Causal Inference and Propensity Score Methods (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 (co-taught with E. Rose)	JSM	4	21
2021	Statistical Methods for Precision Medicine	U. Calgary	6	250
2021	An Introduction to Correlated Data Models	McGill Summer School in Health Statistics	3	16
2021	Precision Medicine: A Statistical Perspective on Estimating the Best Treatment Strategy	ISI World Congress	3	13

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: Associate Professor, Emory University

- 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
- 2019-2021 *Mamadou Yauck
SAMSI-CANSSI Postdoctoral Fellowship (\$65,125 USD)
Current position: Assistant Professor, UQAM
- 2019- *Eric Rose
CANSSI-StatLab-CRM Postdoctoral Fellowship (\$45,000)
- 2020- Hiroshi Mamiya (Co-supervisor: Alexandra Schmidt)
IVADO Postdoctoral Fellowship (\$70,000/year, two years)
- 2021- Janie Coulombe
Globalink FRQNT-Mitacs research fellowship (\$6,000)

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, shared)
FRQNT 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)
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: Associate, Analysis Group
- 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: Scientific and Quality Assurance Officer, 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
Current position: Senior Biostatistician, Biogen
- 2016-2021 *Janie Coulombe, Ph.D. Biostatistics (Co-supervisor: Robert Platt)
 SSC Case Studies Award (\$500, shared)

- NSERC CGS-D (\$21,000/year, two years)
 McGill MedStar Award (\$500)
 Nominated for Northeastern Association of Graduate Schools Doctoral
 Dissertation Award in the Agricultural, Biological & Health Sciences
- 2017-2019 Estelina Capistrano, Ph.D. in Statistics at Universidade Federal do Rio de
 Janeiro, Brazil (Co-supervisor: Alexandra Schmidt)
 Honourable mention, CAPES award for the best PhD thesis in Mathematics and Statistics in Brazil
Current position: Universidade Federal Fluminense, Niterói
- 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)
- 2017-2021 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)
Current position: Geriatrician and epidemiologist, CHUM
- 2018- Shuo (Mila) Sun, Ph.D. Biostatistics (Co-supervisor: Johanna Neslehova)
 SSC Special Covid-19 Case Studies, First prize (\$500, shared)
 Young Investigator Award by the ASA Section on Statistics in Epidemiology (\$800 USD)
- 2018- Armando Turchetta, Ph.D. Biostatistics (Co-supervisor: David Stephens)
 CRM International Research Internship Award (\$10,000)
 2020 Canadian Statistics Students Conference, Best Graduate Poster Presentation (PhD)
- 2018- Ivan Marbaniang, Ph.D. Epidemiology (Co-supervisor: Joseph Cox)
 HBHL doctoral fellowship (\$15,000/year, two years)
 McGill Faculty of Medicine doctoral fellowship (\$12,000), declined
 HBHL Research Day best oral presentation award (\$200)
 FRQS doctoral training award (\$49,000 over three years)
- 2018-2021 Widemberg Nobre, Ph.D. in Statistics at Universidade Federal do Rio de
 Janeiro, Brazil (Primary supervisor: Alexandra Schmidt)
 Visiting student at McGill, 2018-2019 as part of his degree
- 2019-2022 Sebastián Martínez, Ph.D. in Statistics at University of Glasgow, UK
 (Primary supervisor: Nema Dean)
 Visiting student, May 2019 as part of his degree
- 2020- Vanessa McNealis, Ph.D. Biostatistics (Co-supervisor: Melanie Henderson)
 Bourse d'excellence de doctorat de la Fondation du CHU Sainte-Justine (\$20,000)
 SSC Case Studies Award (\$750, shared)
 NSERC CGS-D (\$21,000/year, three years)
 Three Minute Thesis competition EBOH, third place (\$100)
- 2020- Zeyu (Chris) Bian, Ph.D. Biostatistics (Co-supervisor: Sahir Bhatnagar)

- 2020- Junwei Shen, Ph.D. Biostatistics (Co-supervisor: Shirin Golchi)
MITACS Accelerate Internship (August-December, 2020)
- 2020- Haoyu Wu, Ph.D. Biostatistics (Co-supervisor: David Stephens)
- 2021- Jesse Gervais, Ph.D. Statistics (UQAM, Co-supervisor: Genevieve Lefebvre)

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-(2019) Dirk Douwes-Shultz, M.Sc. Biostatistics (Co-supervisor: Alexandra Schmidt)
Fast-tracked to PhD Program in 2019
- 2018-2020 *Larry Dong, M.Sc. Biostatistics, co-tutelle with Université Bordeaux
MSc in Digital Public Health (Co-supervisor: Rodolphe Thiebault)
IVADO Excellence Scholarship (\$20,000/year, two years)
2020 Canadian Statistics Students Conference, Best Graduate Oral Presentation (MSc)
- 2019-2021 Yao (William) Asiri Agbodah, M.Sc. Biostatistics (Co-supervisor: Genevieve Lefebvre)
- 2019-2021 Valerie Rodrigue, M.Sc. Epidemiology (Co-supervisor: Dimitra Panagiotoglou)
- 2021- Elham Bahrapour, M.Sc. Biostatistics (Co-supervisor: David Buckeridge)
- 2021- Charlene Weight, M.Sc. Epidemiology (Co-supervisor: Eric Latimer)

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
2020	Jiewen Liu Arts Undergraduate Research Award (ARIA), \$4,500
2021	Max Belkebir
2021	Caiwei Xiong

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 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) Réseau de recherche en interventions en sciences infirmières du Québec (\$5000)

Other supervision

2016-2017	Celline Brasil, Ph.D. in Medications and Pharmaceutical Assistance at Universidade Federal de Minas Gerais, Brazil (visiting student, one year)
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- 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
(visiting student, abbreviated to one month due to covid-19)

Research Assistant supervision

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

E4. Mentoring activities

Mentorship of new faculty (one-on-one)

- 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

I am Mentor in the Provostial Mentorship Network (see also F3 below).

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.
- 2020 SSC Special Covid-19 Case Studies competition Faculty Co-Mentor (with A. Schmidt). First prize won by the team made up of D. Douwes-Shultz and M. Sun
- 2021 SSC Case Studies competition Faculty Mentor. First prize won by the team made up of M. Parsons, V. McNealis, G. Virgili-Gervais and J. Willard

F. Other Contributions

F1. Journals

Journal Editorships

2009	Guest Editor, <i>International Journal of Biostatistics</i>
2009-2013	Associate Editor, <i>International Journal of Biostatistics</i>
2011	Guest Editor, <i>Statistical Communications in Infectious Diseases</i>
2011-2013	Associate Editor, <i>Journal of Causal Inference</i>
2013-	Associate Editor, <i>Biometrics</i>
2014-2019	Associate Editor, <i>Journal of the American Statistical Association, Theory & Methods</i>
2020-	Statistical Editor, <i>Journal of Infectious Diseases</i>

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

External Reviewer of Tenure and Promotion Dossiers

Cardiff University, Columbia University, Duke-NUS Graduate Medical School Singapore, Harvard University, Johns Hopkins Bloomberg School of Public Health, MacEwan University, North Carolina State University, University of California - Berkeley, University of North Carolina - Chapel Hill, University of Washington, University of Wisconsin-Madison

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, 2016, 2018	NSERC Discovery Grants
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
2020	European Research Council
2020	National Fund for Scientific and Technological Research (FONDECYT) of the National Research and Development Agency (ANID) of the Science, Technology, Knowledge and Innovation Ministry of Chile, Mathematics evaluation group
2021	University of Toronto Data Sciences Institute, Catalyst Grants

Panel Member of Review Committees

2010, 2013	CIHR Operating Grants (Public, Community & Population Health)
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
2018, 2019	CIHR Project Grants (Public, Community & Population Health)
2021	<i>Recognized in 2019 as an Outstanding Reviewer by CIHR's Review Quality Assurance Process</i>
2020	CIHR COVID-19 Rapid Response Research Grants

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, 2014-2016	Organizer, Biostatistics Seminar Series
2011-2019	Director, Biostatistics Graduate Programs
2012-2014	Member, Departmental Tenure Committee
2012-2013, 2015-2017	Member, Recruitment Committee (Biostatistics)
2013	Member, Appointments Committee
2012-2020	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, SPGH Big Data working group
2021	Member, EBOH Chair Search Committee
2021	Member, Recruitment Committee (Mathematics & Statistics)
2022 (Fall)	Organizer, Biostatistics Seminar Series

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 Office
2019	Reviewer, Faculty of Medicine Internal Grant Review Panel
2019	Member, Working Group on Salary Equity
2019	Pro-dean (thesis examination) on two occasions
2020	Pro-dean (thesis examination), once
2020-	Mentor, Provostial Mentorship Network
2021	Member, College of Internal Peer Reviewers, Faculty of Medicine and Health Sciences
2021	Pro-dean (thesis examination) on three occasions
2021	Member, Principal's Prize for Outstanding Emerging Researchers Awards Committee

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
2020	Member, CRM Expert Team in Epidemiology and Public Health
2020-2023	Director, CRM StatLab
2020-	Steering Committee member, AID-ME Randomized Clinical Trial
2020-2022	Organizing committee member, Colloque des Sciences Mathématiques du Québec
2020-2021	Evaluation committee member, CRM-ISM postdoctoral fellowship evaluation committee
2018-2019	Member, SSC Equity, Diversity & Inclusion Committee
2021	Member, CMStatistics 2021 Scientific Programme Committee

F4. Professional Associations

2004-2021	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
2020-	Research Network in Cardiometabolic Health, Diabetes and Obesity of the FRQS

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

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

1. MiCM ResearchMatch – A novel approach to improve the identification of unstable plaques and the prediction of strokes, \$24,280 (2021). Co-investigator: Stella Daskalopoulou
2. MITACS Accelerate Grant – New designs for Bayesian adaptive cluster randomized trials for an individualized clinical support tool with capacity to support distance follow up and treatment of depression, \$30,000 (2020–2021).
3. CIHR Foundation Scheme grant – Advancing the methodological frontiers of adaptive treatment strategies, \$497,872 (2019–2027).
4. 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).
5. *NSERC Discovery Grant – Causal inference in network settings, \$230,000 (2019–2024).
6. 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)
7. HBHL 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. 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)
9. 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).
10. *NSERC Discovery Grant – A new framework for estimation and inference of optimal dynamic treatment regimes, \$140,000 (2014–2019).
11. 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.
12. Quebec Population Health Research Network Book-writing Grant – Dynamic treatment regimes for personalized medicine, \$5,000 (2011). Co-investigator: Bibhas Chakraborty (Columbia University).
13. *NSERC Discovery Grant – Optimal adaptive treatment strategies: Finding practical solutions to inferential challenges, \$80,000 (2009–2014).

14. 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.
15. *NSERC Discovery Grant – Optimal dynamic treatment regimes: Extending the framework, \$36,000 (2006–2009).
16. McGill University Start-up Grant, \$50,000 (2006).

Research awards, as Co-Investigator or Named Expert: Title, PI, total (years)

17. CIHR Project Grant – Gabapentinoids and the risk of severe respiratory events in patients with chronic obstructive pulmonary disease. PI: Christel Renoux, \$120,000 (2021–2023)
18. Canadian Trials Network – Tracking a revolution: Evaluating the impact of modern HCV therapy on HIV-HCV coinfection. PI: Marina Klein, \$384,000 (2021–2024)
19. NSERC Emerging Infectious Diseases Modeling initiative – Statistical methods for managing emerging infectious diseases. PI: Patrick Brown; in addition to being co-I, I am part of the management team for the governance of this award. \$750,000 (2021–2023)
20. Breathing as One Boehringer Ingelheim Canada/CIHR-ICRH: COPD Catalyst Grant Competition – Gabapentinoids and the risk of severe respiratory events in patients with chronic obstructive pulmonary disease. PI: Christel Renoux \$30,000 (2021–2022)
21. NIEHS R01 – Exposure to insecticides and child growth and pubertal development in a South African population exposed through indoor residual spraying, PI: Jonathan Chevrier, \$441,488 (2020–2025)
22. IVADO Fundamental Research Projects Grant – Statistical modelling of health trajectories and interventions. PI: David Stephens. \$216,000. (2020–2022)
23. McGill MI4 Emergency COVID-19 Fund – Real-time tracking of COVID-19 vaccine development. PI: Nicole Basta. \$92,208. (2020–2022)
24. 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)
25. 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)
26. 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)
27. 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)
28. FRQNT Team Grant – Méthodes d'inférence causale et la prise de décision dans un cadre bayésien. PI: David Stephens, \$205,740 (2018–2021)
29. 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)

30. CIHR Catalyst Grant – Biostatistical methods for estimating the cumulative impact of environmental contaminant exposures on preterm birth. PI: Lawrence McCandless, \$198,330 (2017–2019)
31. CIHR Project Grant – New statistical methods for cohort studies of adverse effects of medications. PI: Michal Abrahamowicz, \$753,035 (2016–2021)
32. 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)
33. CIHR Foundation Scheme – Statistical methods in pharmacoepidemiology and perinatal epidemiology. PI: Robert Platt, \$1,071,721 (2015–2022)
34. 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)
35. 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)
36. CIHR Operating Grant – Understanding blood pressure and end organ damage in adolescents. PI: Michael Zapitelli, \$438,115 (2014–2018)
37. CIHR Bridge Grant – The coming revolution in HCV therapy: Will HIV-HCV co-infected patients really benefit? PI: Marina Klein, \$100,000 (2014–2015).
38. 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).
39. CIHR Operating Grant – Propensity scores and marginal structural models in drug safety research, PI: Robert Platt, \$405,940 (2012–2015).
40. 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).
41. CIHR Operating Grant – Development of strategies to curb the Quebec HIV epidemic based on molecular epidemiological surveillance, PI: Bluma Brenner, \$311,718 (2011–2014).
42. 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).
43. FRQNT Team Grant – Méthodes statistiques pour les études multiniveaux, PI: Nandini Dendukuri, \$145,800 (2008–2011).
44. NIH Operating Grant – Soy-rich diet for preventing chronic post breast cancer surgery pain, PI: Yoram Shir, \$236,446 (2008–2010).

Research awards, as Collaborator: Title, PI, total (years)

45. MRC Methodology Research Programme Grant – Comparative Effectiveness Research using Observational data: methodological developments and a roadmap (CER-OBS), PI: Bianca de Stavola

Other funding: Title, PI, total (years)

46. NSERC Discovery Institutes program – Canadian Statistical Sciences Institute, PI: Don Estep, \$5,768,740 (2022–2027).

47. NSERC Discovery Institutes program – Centre de recherches mathématiques (CRM), PI: Octave Cornea, \$5,090,065 (2022–2027).
48. CIHR AI Summer School – AI for public health (AI4PH): A focus on equity and prevention, PI: David Buckeridge, \$525,000 (2019–2024).
49. 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
50. 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
51. 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).
52. CANSSI Distinguished Visitor Program Grant. \$3,050 (2017). Co-organizers: Gabrielle Simoneau, Marie-Pier Côté.
53. CANSSI Health Science Collaborating Centre seed grant – McGill Health Statistics Training Network. \$10,000 (2017).
54. CANSSI Distinguished Visitor Program Grant. \$3,000 (2016). Co-organizers: Kevin McGregor, Gabrielle Simoneau.
55. 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).
56. 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).
57. SAMSI Workshop Grant – Statistical causal inference and its applications to genetics. PI: Robin Evans (University of Oxford), \$6,500USD (2016)
58. CIHR Meetings, Planning and Dissemination Grants – Causal inference in health research, \$10,410 (2011). Co-organizers (McGill University): Jay Kaufman, Robert Platt.
59. *MITACS Networks and Training Program – Causal inference in health research, \$15,000 (2011).

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

G3a. Articles published in peer-reviewed journals

Methodological and statistical papers -

1. **Rodriguez Duque D.**, Stephens D. A., Moodie E. E. M., and Klein M. B. (2022) Semi-parametric Bayesian inference for optimal dynamic treatment regimes via dynamic marginal structural models. *Biostatistics* (accepted)

2. **Danieli C.** and **Moodie E. E. M.** (2021) Preserving data privacy when using multi-site data to estimate individualized treatment rules. *Statistics in Medicine* (accepted)
3. **Yauck M., Moodie E. E. M.,** Apelian H., Fourmigue A., Grace D., Hart T. A., Lambert G., and Cox J. (2021) Neighborhood bootstrap for respondent-driven sampling *Journal of Survey Statistics and Methodology* (accepted)
4. **Bian Z., Moodie E. E. M.,** Shortreed S. M., and Bhatnagar S. R. (2021) Variable selection in regression-based estimation of dynamic treatment regimes. *Biometrics* (accepted)
5. **Coulombe J., Moodie E. E. M.,** Platt R. W., and Renoux C. (2021) Estimation of the marginal effect of antidepressants on body mass index under confounding and endogenous covariate-driven monitoring times. *Annals of Applied Statistics* (accepted)
6. Wu J., Galanter N., Shortreed S. M., and **Moodie E. E. M.** (2021) Ranking tailoring variables for constructing individualized treatment rules: an application to schizophrenia. *Journal of the Royal Statistical Society, Series C* (accepted)
7. **Yauck M., Moodie E. E. M.,** Apelian H., Fourmigue A., Grace D., Hart T., Lambert G. and Cox J. (2021) General regression methods for Respondent-Driven Sampling data. *Statistical Methods in Medical Research* (accepted)
8. **Wang S., Moodie E. E. M.,** Stephens D. A., and Nijjar J. S. (2021) Adaptive treatment strategies for chronic conditions: Shared-parameter G-estimation with an application to rheumatoid arthritis. *Biostatistics* (accepted)
9. **Coulombe J., Moodie E. E. M.,** and Platt R. W. (2021) Estimating the marginal effect of a continuous exposure on an ordinal outcome using data subject to covariate-driven treatment and visit processes. *Statistics in Medicine* **40**:5746–5764.
10. **Sun S., Moodie E. E. M.,** and Nevarslehová J. (2021) Causal inference for quantile treatment effects. *Environmetrics* **32**:e2668.
11. **Moodie E. E. M.** and Stephens D. A. (2021) Commentary on ‘The Statistician in Medicine’ by Professor Sir Austin Bradford Hill. *Statistics in Medicine* **40**:37–41.
12. **Coulombe J., Moodie E. E. M.,** and Platt R. W. (2021) Weighted regression analysis to correct for informative monitoring times and confounders in longitudinal studies. *Biometrics* **77**:162–174.
13. **Schulz J.** and **Moodie E. E. M.** (2021) Doubly robust estimation of optimal dosing strategies. *Journal of the American Statistical Association* **116**:256–268.
14. **Yauck M.** and **Moodie E. E. M.** (2021) Sampling from networks: Respondent-driven sampling. *Epidemiologic Methods*, **10** doi:10.1515/em-2020-0033.
15. Goetghebeur E., le Cessie S., De Stavola B., **Moodie E. E. M.,** Waernbaum, I. on behalf of the topic group Causal Inference (TG7) of the STRATOS initiative. (2020) TUTORIAL: Formulating causal questions and principled statistical answers. *Statistics in Medicine* **39**:4922–4948. *Third most downloaded article published in 2020 from the journal on Wiley OnlineLibrary, with 4,563 downloads.*
16. **Simoneau G., Moodie E. E. M.,** and Platt R. P. (2020) Optimal dynamic treatment regimes with survival endpoints: Introducing DWSurv in the R package DTRreg. *Journal of Statistical Computation and Simulation* **90**:2991–3008.
17. **Moodie E. E. M.** and Krakow E. F. (2020) Precision medicine: Statistical methods for estimating adaptive treatment strategies. *Bone Marrow Transplantation* **55**:1890–1896.

18. Moodie E. E. M. and Stephens D. A. (2020) Clarifying endogeneous data structures and consequent modelling choices using causal graphs. *Statistical Science* **35**:391–393.
19. Shortreed S. M. and Moodie E. E. M. (2020) Automated analyses: Because we can, does it mean we should? *Statistical Science* **35**:499–502.
20. **Simoneau G.**, Moodie E. E. M., Nijjar J. S., and Platt R. P. (2020) Finite sample variance estimation for optimal dynamic treatment regimes of survival outcomes. *Statistics in Medicine* **39**:4466–4479.
21. **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* **189**:461–469.
22. **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* **115**:1531–1539. *This paper won the Lifetime Data Science (LiDS) 2019 Student Paper Competition.*
23. **Wallace M. P.**, Moodie E. E. M., and Stephens D. A. (2019) Model selection for G-estimation of dynamic treatment regimes. *Biometrics* **75**:1205–1215.
24. **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.
25. **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.
26. **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.
27. **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.
28. 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.
29. 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
30. **Pels, W. A.**, **Alam S.**, Carpp L. N., and Moodie E. E. M. (2018) A call for caution in using information criteria to select the working correlation structure in generalized estimating equations. *Epidemiology* **29**:e51–e52.
31. **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
32. **Wallace M. P.**, Moodie E. E. M., and Stephens D. A. (2018) Reward ignorant modeling of dynamic treatment regimes. *Biometrical Journal* **20**:991–1002.
33. Moodie E. E. M., Stephens D. A., and **Wallace M. P.** (2018) G-estimation. *Wiley StatsRef* doi:10.1002/9781118445112.stat08046
34. **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.

35. **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.
36. **Moodie E. E. M. and Stephens D. A.** (2017) Dynamic treatment regimes. *Wiley StatsRef* doi:10.1002/9781118445112.stat08040.
37. **Moodie E. E. M. and Stephens D. A.** (2017) Treatment prediction, balance and propensity score adjustment. *Epidemiology* **28**:e51–e53.
38. **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.
39. **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.
40. **Krakov 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.*
41. **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.
42. **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.*
43. **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.
44. **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.
45. **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.
46. **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.*
47. **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.
48. **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.
49. **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.
50. **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.

51. **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.
52. **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.
53. **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.
54. **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.
55. 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.
56. **Karran J.**, **Moodie E. E. M.**, and **Wallace M. P.** (2015) Statistical method use in public health research. *Scandinavian Journal of Public Health* **43**:776–782.
57. **Wallace M. P.** and **Moodie E. E. M.** (2015) Doubly-robust dynamic treatment regimen estimation via weighted least squares. *Biometrics* **71**:636–644.
58. **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.
59. **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.
60. **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.
61. **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.
62. **Naimi A. I.**, **Moodie E. E. M.**, Auger A., and Kaufman J. S. (2014) Semiparametric adjusted exposure-response curves. *Epidemiology* **25**:919–922.
63. 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.
64. **Moodie E. E. M.**, Dean N. and **Sun Y. R.** (2014) Q-learning: Flexible learning about useful utilities. *Statistics in Biosciences* **6**:223–243.
65. **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.*
66. **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.
67. **Wallace M. P.** and **Moodie E. E. M.** (2014) Personalizing medicine: A review of adaptive treatment strategies. *Pharmacoepidemiology & Drug Safety* **23**:580–585.

68. **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.
69. **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.
70. 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.
71. **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.
72. **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.
73. **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.
74. **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.
75. **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.
76. 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.
77. 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.
78. 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.
79. 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.
80. 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.
81. 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.
82. **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.
83. **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.
84. **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.

85. 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.
86. Moodie E. E. M. (2009) A note on the variance of doubly-robust G-estimates. *Biometrika* **96**:998-1004.
87. Moodie E. E. M. (2009) Risk factor adjustment in marginal structural model estimation of optimal treatment regimes. *Biometrical Journal*, **51**:774–788
88. 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.
89. 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.
90. 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.
91. Moodie E. E. M., Richardson, T. S., and Stephens, D. A. (2007) Demystifying optimal dynamic treatment regimes. *Biometrics*, **63**:447–455.
92. 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.
93. 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 -

94. **Kim J.**, Yang S., Moodie E. E. M., Obida M., Bornman R., Eskenazi B, and Chevrier J. (2022) Prenatal exposure to DDT and pyrethroid insecticides and Body Composition at Age 5 Years among Rural South African Children Participating in the VHEMBE Study. *Environmental Epidemiology* (accepted)
95. **Kim J.**, Yang S., Moodie E. E. M., Obida M., Bornman R., Eskenazi B, and Chevrier J. (2022) Prenatal exposure to DDT and pyrethroid insecticides and child weight trajectories in a South African birth cohort. *Epidemiology* (accepted)
96. **Marathe G.**, Moodie E. E. M., Brouillette M.-J., Cox J., Lanièce Delaunay C., Cooper C. Hull M., Gill J., Walmsley S., Pick N., and Klein M. B. (2021) Depressive symptoms are no longer a barrier to HCV treatment initiation in the HIV-HCV co-infected population in Canada. *Antiviral Therapy* (accepted)
97. **Nguyen Q. D.**, Moodie E. E. M., Desmarais P., Goulden R., Forget M.-F., Peters E., Saeed S., Keezer M. R., and Wolfson, C. (2021) Appraising clinical applicability of studies: mapping and synthesis of current frameworks, and proposal of the FrACAS framework and VICORT Checklist. *BMC Medical Research Methodology* (accepted)
98. Lambert S., Grover S., Laizner A. M., McCusker J., Belzile E., Moodie E. E. M., Kayser J. W., Lowensteyn I., Da Costa D., Pilote L., Vallis M., Ibberson C. and Sabetti J. (2021) Adaptive web-based stress management programs among adults with a cardiovascular disease (CVD): A pilot Sequential Multiple Assignment Randomized Trial (SMART). *Patient Education and Counseling* (accepted)

99. **Nguyen Q. D.**, Moodie E. E. M., Desmarais P., Forget M.-F., Wang H. T., Keezer M. R., and Wolfson, C. (2021) The state of frailty in research: a mapping review of its clinical applicability to practice. *Ageing Research Reviews* (accepted)
100. **Ould Brahim L.**, Lambert S., Coumoundouros C., Schaffler J., McCusker J., Feeley N., Kayser J., Moodie E. E. M., Belzile E., and Genest C. (2021) The effects of self-management support interventions on depressive symptoms in adults with chronic physical disease(s) experiencing depressive symptomatology: A systematic review and meta-analysis. *BMC Psychiatry* (accepted)
101. **Mamiya H.**, Schmidt A. M., Moodie E. E. M., Ma Y., and Buckeridge D. L. (2021) Generating community measures of food purchasing activities using store-level electronic grocery transaction records: An ecological study in Montreal, Canada. *Public Health Nutrition* **23**:1–13.
102. **Nguyen Q. D.**, Moodie E. E. M., Keezer M. R., and Wolfson, C. (2021) Clinical correlates and implications of the reliability of the frailty index in the Canadian Longitudinal Study on Aging. *Journal of Gerontology: Medical Sciences* **76**:e340–e346.
103. **Karunanathan S.**, Moodie E. E. M., Bergman H., Payette H., Diehr P. H., and Wolfson C. Physical function and survival in older adults: A longitudinal study accounting for time-varying effects. *Archives of Gerontology and Geriatrics* (accepted)
104. Harvey-Lavoie S., Apelian H., Labbé A.-C., Cox J., Messier-Peet M., Moodie E. E. M., Fourmigue A., Moore D., Lachowsky N. J., Grace D., Hart T. A., Jollimore J., Fortin C., and Lambert G. (2021) Community-based prevalence estimates of Chlamydia trachomatis and Neisseria gonorrhoeae infections among gay, bisexual and other men who have sex with men in Montréal, Canada. *Sexually Transmitted Diseases* **96**:104440.
105. **Mendicino C. C. P.**, Moodie E. E. M., Guimarães M. D. C., and Menezes de Pádua C. A. (2021) Immune recovery after antiretroviral therapy initiation: A challenge for people living with HIV in Brazil. *Cadernos Saúde Pública* **37**:e00143520
106. Luz P. M., Jalil E., Castilho J., Velasque L., Ramos M., Cristina A., Ferreira A. L., Wilson E. C., Veloso V. G., Thombs B. D., Moodie E. E. M., and Grinsztejn B. (2021) Association of discrimination, violence and resilience with depressive symptoms among transgender women in Rio de Janeiro, Brazil: a cross-sectional analysis. *Transgender Health* doi:10.1089/trgh.2020.0171
107. Cox J., Apelian H., Moodie E. E. M., et al. (2021) HIV pre-exposure prophylaxis (PrEP) use among urban Canadian gay, bisexual and other men who have sex with men for whom PrEP is clinically recommended: Baseline results from the Engage Cohort Study. *CMAJ-Open* **9**:E529–E538.
108. **Mamiya H.**, Moodie E. E. M., Schmidt A. M., Ma Y., and Buckeridge D. (2021) Price discounting as a hidden risk factor of energy drink consumption. *Canadian Journal of Public Health* **112**:638–646.
109. **Coulombe J.**, Moodie E. E. M., Shortreed S. M., and Renoux C. (2021) Can the risk of severe depression-related outcomes be reduced by tailoring the antidepressant therapy to patient characteristics? *American Journal of Epidemiology* **190**:1210–1219.
110. **Coulombe J.**, Moodie E. E. M., Shortreed S. M., and Renoux C. (2020) Response to: ‘Baby Steps to a Learning Mental Health Care System: Can we do the Work?’ *American Journal of Epidemiology* **190**:1223–1224.
111. Luz P. M., Torres T. S., Almeida-Brasil C. C., Marins L. M. S., Veloso V. G., Grinsztejn B., Cox J. and Moodie E. E. M. (2021) High-risk sexual behavior, binge drinking and use of stimulants are key experi-

ences on the pathway to perceived HIV risk among men who have sex with men in Brazil. *AIDS and Behavior* **25**:748–757.

112. **Nguyen Q. D.**, Forget M.-F., Desmarais P., Keezer M. R., Moodie E. E. M., and Wolfson, C. (2021) Health heterogeneity in older adults: Exploration in the Canadian Longitudinal Study on Aging. *Journal of the American Geriatrics Society* **69**:678–687. *This paper is the subject of the editorial ‘Heterogeneity of aging: Individual risk factors, mechanisms, patient priorities, and outcomes’ by Ferrucci & Kuchel.*
113. **Nasiri K.**, Moodie E. E. M., and Abenhaim H. A. (2020) Racial disparities in recurrent preterm delivery risk: Mediation analysis of prenatal care timing. *Journal of Perinatal Medicine* **49**:448–454.
114. **Nasiri K.**, Moodie E. E. M., and Abenhaim 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* **189**:1360–1368.
115. 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* **71**:1020–1030.
116. **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* **71**:648–655.
117. **Saeed S.**, Strumpf E. C., Moodie E. E. M., Wong L., Cox J., Walmsley S., Tyndall M., Cooper C., Conway B., Hull M., Martel-Laferrriere 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* **71**:363–371.
118. Elayi C. S., Shohoudi A., Moodie E. E. M., Etaee F., Guglin M., Roy D., and Khairy P. (2020) Digoxin, mortality, and cardiac hospitalizations in patients with atrial fibrillation and heart failure with reduced ejection fraction and atrial fibrillation: An AF-CHF analysis. *International Journal of Cardiology* **313**:48–54.
119. 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.
120. **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.
121. 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.
122. Kronfli N., Bhatnagar S. R., Hull M. W., Moodie E. E. M., Walmsley S., Gill J., Cooper C., Martel-Laferrriere 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.
123. **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.

124. 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
125. 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.
126. **Saeed S.**, Moodie E. E. M., Strumpf E. C., Gill M. J., Wong A., Cooper C., Walmsley S., Hull M., Martel-Laferrriere 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.
127. **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.
128. **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.
129. **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.
130. **Rossi C.**, Saeed S., Cox J., Vachon M.-L., Martel-Laferrrière 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.
131. 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.
132. **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.
133. 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.
134. **Saeed S.**, Strumpf E. C., Moodie E. E. M., Young J., Nitulescu R., Cox J., Wong A., Walmsely S., Cooper C., Vachon M. L., Martel-Laferrriere 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.
135. **McLinden T.**, Moodie E. E. M., Hamelin A.-M., Harper S., Walmsley S. L., Paradis G., W. Aibibula, Klein M. B., and Cox J. (2017) Injection drug use, unemployment, and severe food insecurity among HIV-HCV co-infected individuals: A mediation analysis. *AIDS & Behavior* **21**:3496–3505.
136. 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.

137. Latimer E., Rabouin D., Cao Z., Ly A., Powell G., Aubry T., Distasio J., Hwang S., Somers J., Stergiopoulos V., Veldhuizen S., Moodie E. E. M., Lesage A., and Goering P. for the At Home/Chez Soi Investigators. (2017) The costs of usual services for homeless people with mental illness in five Canadian cities: Results from a large prospective follow-up study. *CMAJ Open* **5**:E576–E585.
138. **Rossi C.**, Raboud J., Walmsley S., Cooper C., Antoniou T., Burchell A., Hull M., Chia J., Hogg R. S., Moodie E. E. M., and Klein M. B. for the Canadian Observational Cohort (CANOC) Collaboration. (2017) Hepatitis C co-infection is associated with an increased risk of incident chronic kidney disease in HIV-infected patients initiating combination antiretroviral therapy. *BMC Infectious Diseases* **17**:246.
139. Brenner B. G., Ibanescu R.-I., Hardy I., Stephens D. A., Otis J., Moodie E. E. M., Grossman Z., Vandamme, A.-M., Roger M., Wainberg M. A., and the Montreal PHI and SPOT cohort study teams. (2017) Large cluster outbreaks sustain the HIV epidemic among men having sex with men (MSM) in Quebec from 2002 to 2015. *AIDS* **31**:707–717.
140. 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. (2017) Food insecurity in HIV-hepatitis C virus co-infected individuals in Canada: The importance of co-morbidities and competing needs. *AIDS and Behavior* **21**:792–802.
141. Klein M. B., Althoff K. N., Jing Y., Kitahata M., Lo Re V., Kirk G. D., Hull M., Kim H. N., Sebastiani G., Moodie E. E. M., Silverberg M., Sterling T. R., Thorne J. E., Cescon A., Napravnik S., Eron J., Gill M. J., Justice A., Peters M. G., Goedert J., Mayor A., Thio C. L., Cachay E. R., and Moore R. for the North American AIDS Cohort Collaboration on Research and Design (NA-ACCORD) of IeDEA. (2016) Risk of endstage liver disease in HIV-viral hepatitis co-infected persons in North America from the early to modern antiretroviral therapy eras. *Clinical Infectious Diseases* **63**:1160–1167.
142. **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* **104**:1616–1627.
143. **Rossi C.**, Cox J., Cooper C., Martel-Laferrrière 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.
144. **Brunet L.**, Moodie E. E. M., Cox J., Gill J., Cooper C., Walmsley S., Rachlis A., Hull M., and Klein M. B. for the Canadian Coinfection Cohort Study Investigators. (2016) Use of opioids and risk of liver fibrosis in HIV/hepatitis C co-infected patients in Canada. *HIV Medicine* **17**:36–45.
145. **Brunet L.**, Moodie E. E. M., Young J., Cox J., Hull M., Cooper C., Walmsley S., Martel-Laferrrière 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.
146. Bhat M., Wyse J. M., Moodie E. E. M., Ghali P., Hilzenrat N., and Wong P. (2015) Prevalence and predictors of sleep disturbance among liver diseases in long-term transplant survivors. *Canadian Journal of Gastroenterology & Hepatology* **29**:440–444.
147. **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.

148. 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 (JAMA 2016, 316:191–210).*
149. Yeung M. W., Young J., Moodie E. E. M., Rollet-Kurhajec K. C., Schwartzman K., Greenaway C., Cooper C., Cox J., Gill M. J., Hull M., Walmsley S., Klein M. B. for the Canadian Coinfection Cohort Study Investigators (2015) Changes in quality of life, health care use and substance use in HIV- Hepatitis C coinfecting patients after Hepatitis C therapy: A prospective cohort study. *HIV Clinical Trials* **16**:100–110.
150. Rollet-Kurhajec K. C., Moodie E. E. M., Walmsley S., Cooper C., Pick N., Klein M. B. (2015) Hepatic fibrosis progression in HIV-Hepatitis C virus co-infection - The effect of sex on risk of significant fibrosis measured by Aspartate-to-platelet Ratio Index. *PLoS One* **10**:e0129868.
151. **Gough E. K.**, Moodie E. E. M., Prendergast A. J., Johnson S. M. A., Humphrey J. H., Stoltzfus R. J., Manary M. J., Trehan I., Gibb D. M., Walker A. S., Goto R., Tahan S., Batista de Morais M., and Manges A. R. (2014) The impact of antibiotics on growth in children in developing countries: A systematic review and meta-analysis of randomized controlled trials. *British Medical Journal* **348**:g2267, doi: <http://dx.doi.org/10.1136/bmj.g2267>.
152. Klein M. B., Rollet-Kurhajec K. C., Moodie E. E. M., Yaphe S., Tyndall M., Walmsley S., Gill J., Martel-Laferriere V., and Cooper C. for the Canadian Co-infection Cohort Investigators. (2014) Mortality in HIV-hepatitis C co-infected patients enrolled in the Canadian Co-infection Cohort Study in comparison to the general Canadian population (2003-2013). *AIDS* **28**:1957–1965.
153. Latimer E., Naidu A., Moodie E. E. M., Clark R., Malla A., Tamblyn R., and Wynant W. (2014) Variation in long-term antipsychotic polypharmacy and high-dose prescribing across physicians and hospitals. *Psychiatric Services* **65**:1210–1217.
154. Cox J., Maurais E., Hu L., Moodie E. E. M., Law S., Bozinoff N., Potter M., Rollet K., Hull M., Tyndall M., Cooper C., Gill J., Saeed S., and Klein M. B. (2014) Correlates of drug use cessation among participants in the Canadian HIV-HCV Co-infection Cohort. *Drug and Alcohol Dependence* **137**:121–128.
155. 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.
156. **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).*
157. Latimer E., Wynant W., Clark R., Malla A., Moodie E. E. M., Tamblyn, R., and Naidu A. (2013) Under-prescribing of clozapine and unexplained variation in use across hospitals and regions in the Canadian province of Quebec. *Clinical Schizophrenia & Related Psychoses* **7**:33–41.
158. Klein M. B., Rollet K. C., Saeed S., Cox J., Potter M., Cohen J., Conway B., Cooper C., Côté P., Gill J., Haase D., Haider S., Hull M., Moodie E. E. M., Montaner J., Pick N., Rachlis A., Rouleau D., Sandre R.,

- Tyndall M., and Walmsley S. for the Canadian HIV-HCV Cohort Investigators. (2013) HIV and Hepatitis C virus co-infection in Canada: Challenges and opportunities for reducing preventable morbidity and mortality. *HIV Medicine* **14**:10–20.
159. Brenner, B. and Moodie E. E. M. (2012) HIV sexual networks: The Montreal experience. *Statistical Communications in Infectious Diseases* **4**(1): Article 1.
 160. Kramer M. S., Moodie E. E. M., and Platt R. W. (2012) Infant feeding and growth: Can we answer the causal question? *Epidemiology* **23**:790–794.
 161. 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.
 162. 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.
 163. **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.
 164. 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.
 165. 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
 166. 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
 167. 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.
 168. Veerapathran A., Joshi R., Goswami K., Dogra S., Moodie E. E. M., Reddy M. V. R., Kalantri S., Schwartzman K., Behr M. A., Menzies D., and Pai M. (2008) T-cell assays for tuberculosis infection: Deriving cut-offs for conversions using reproducibility data. *Public Library of Science (PLoS) One*, **3**: e1850.
 169. 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).

As of August 28, 2020, there have been a total of 30,315 chapter downloads since online publication on Jul 23, 2013. Our book was among the top 25% most downloaded eBooks in its respective eBook Collection in 2019.

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.

Handbook of Statistical Methods for Precision Medicine. (forthcoming) Edited by Cai T., Chakraborty B., Laber E., Moodie E. E. M., and van der Laan M. CRC Press.

G3d. Book Chapters

1. **Krakov 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. Kosorok M. R. and Moodie E. E. M. (2021) Statistical methods for adaptive interventions and precision medicine. SIAM News.
2. **Sun M.**, Shaw M., Moodie E. E. M., and Ruths D. (2021) COVID Alert Application effectiveness. Submitted to the Government of Canada COVID Alert Advisory Committee on 28 July, 2021. Available at <https://github.com/druths/published-resources/raw/main/reports/covid-alert-assessment/COVIDAlertReport-Content-Final.pdf>
3. www.trackvaccines.org/ This website, headed by PI Nicole Basta, was designed to track worldwide Covid-19 vaccine trial progress and, later, approvals. The site was accessed by users in over 180 countries with over 48,000 unique users in the first two months after launch. The site was featured in numerous media articles including both the popular press (e.g. Toronto Star, CBC Radio-Canada’s Phares-ouest, the UK-based New Scientist weekly magazine, the podcast “This podcast will kill you”, Nikkei Inc. [one of the biggest economic and financial papers in Japan]) and official sources (e.g. a report from the Board of Commissioners for Saline County, Kansas, USA, linked on GAVI [the Vaccine Alliance’s homepage at www.gavi.org/]). The site was described as “instrumental to our work” by the International Federation of the Red Cross and Red Crescent.
4. Lambert G., Cox J., Messier-Peet M., Apelian H., Moodie E. E. M. et les membres de l’équipe de recherche Engage (2019) 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.

5. 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
6. 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.
7. 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.
8. 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.
9. 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.
10. 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.
11. **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**:S112
12. 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.
13. 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).
14. Moodie E. E. M. (2004) Letter to the editor. *Clinical Trials*, **1**: 471.

G3f. Conference Presentations

Conference presentations (invited) -

1. Biostatistics: Foundations and the Era of Data Science conference, online (April, 2022) Social interference: Estimation among influential friends.
2. Computational and Methodological Statistics (CMStat) conference, London, UK and online (December, 2021) Estimating individualized treatment rules from distributed data collection sites.
3. International Biometric Society - Italian Region, online (September, 2021) Causal thinking in medical statistics.
4. Statistics 2021 Canada, online (July, 2021) Preserving privacy in estimating individualized treatment rules from distributed data collection sites.
5. ISI World Statistics Congress, online (July, 2021) Reflections on recent advancements in causal analysis with application in policy decisions.
6. Statistiques, Philosophie et Santé workshop, Institut de Mathématiques de Toulouse, France (June, 2021) Causality from a statistical perspective and its application to medicine. Keynote address.

7. SSC Annual Meeting, online (June, 2021) Regression-based methods to estimate adaptive treatment strategies. Keynote Speaker: CRM-SSC Prize lecture.
8. CANSSI-NISS Health Data Science Workshop, online (April, 2021) Preserving privacy in estimating individualized treatment rules from distributed data collection sites.
9. 67th Biometric Colloquium “Scenes from Biostatistics” of the German Region of the International Biometric Society (IBS-DR), online (March 2021) Doubly robust estimation of adaptive dosing rules.
10. COVID-19 Helmholtz Institute for Infection Research, online (December, 2020) Tracking the development of COVID-19 vaccines.
11. Neuro-Gairdner Open Science in Action Symposium, Montreal Neurological Institute, Montreal (November, 2020) Panel discussion on ‘Open Science and Healthcare Innovation’.
12. Computational and Methodological Statistics (CMStat) conference, London, UK (December, 2019) User-friendly estimation of optimal adaptive treatment strategies.
13. 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.
14. SAMSI Precision Medicine Transition Workshop, Durham North Carolina (May, 2019) Sequential decision-making with observational data.
15. McGill initiative on Computational Medicine Symposium, Montreal, QC (November, 2018) Statistical perspectives on precision medicine: Tailoring immunosuppressant therapy to transplant patients. Keynote address.
16. JSM, Vancouver, BC (August, 2018) Shared-parameter G-estimation of optimal treatments for rheumatoid arthritis.
17. SSC Annual Meeting, Montreal, QC (June, 2018) Shared-parameter G-estimation of optimal treatments for rheumatoid arthritis.
18. ENAR/IBS Meeting, Atlanta, GA (March, 2018) Shared-parameter G-estimation of optimal treatments for rheumatoid arthritis.
19. Atelier de maillage, Montreal, QC (March 2018) CANSSI: The role of statisticians in data science.
20. 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.
21. 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.
22. 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.
23. International Society for Clinical Biostatistics (ISCB), Vigo, Spain (July, 2017) Personalizing immunosuppressant regimes following transplantation.
24. Blood and Marrow Transplantation (BMT) Tandem Meetings, Orlando, FL (February, 2017) An introduction to adaptive treatment strategies.

25. Joint Statistical Meetings (JSM), Chicago, IL (August, 2016) The vexing problem of analyzing real data: Discussion of ‘Personalized dose finding using outcome weighted learning’.
26. Joint Statistical Meetings (JSM), Chicago, IL (August, 2016) Model validation and selection in estimation of dynamic treatment regimes.
27. 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?
28. 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.
29. World Statistics Congress, Rio de Janeiro, Brazil (July, 2015) A cure-rate model for estimating the optimal dynamic treatment sequence following bone marrow transplantation.
30. 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.
31. United Kingdom Causal Inference Meeting, Bristol, UK (April, 2015) Correcting measurement error in HIV phylogenetic cluster size.
32. 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.
33. United Kingdom Causal Inference Meeting, Cambridge, UK (April, 2014) Addressing measurement error in the confounders in inverse probability weighting.
34. 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.
35. Joint Statistical Meetings (JSM), Montreal, QC (August, 2013) Q-learning with a useful utility.
36. Conference for the Society for Clinical Trials, Boston, MA (May, 2013) Generating candidate optimal individualized dosing strategies.
37. University of Pennsylvania 6th Annual Conference on Statistical Issues in Clinical Trials, Philadelphia, PA (April, 2013) Generating candidate optimal individualized dosing strategies.
38. Eastern North American Region of the International Biometric Society (ENAR/IBS) Meeting, Orlando, FL (March, 2013) Generating candidate optimal individualized dosing strategies.
39. 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”.
40. SSC, Guelph, ON (June, 2012) Q-learning for Estimating Optimal Dynamic Treatment Rules from Observational Data.
41. 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.
42. 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.

43. 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.
44. Joint Statistical Meetings (JSM), Washington D.C. (August, 2009) Structural nested mean modeling of response-maximized breastfeeding strategies.
45. 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.
46. 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.
47. 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.
48. SSC Annual Meeting; St. John’s, NL (June, 2007) Quantifying dose-response for a continuous treatment in the presence of non-compliance or confounding.
49. 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. Duke University, Biostatistics & Bioinformatics Seminar Series (February, 2022) Preserving privacy in estimating individualized treatment rules from distributed data collection sites.
2. Dawson College, Enriched Science Seminar Series (January, 2022) Causal inference in statistics: Did this cause that?
3. Centre for Statistical Methodology at the London School of Hygiene and Tropical Medicine, online (November, 2021) Estimating adaptive treatment strategies for survival outcomes.
4. University of Toronto, Statistics Graduate Student Research Day (April, 2021) Social interference: Inference in the presence of influential friends.
5. Yale University, Biostatistics Seminar Series (April, 2021) Preserving privacy in estimating individualized treatment rules from distributed data collection sites.
6. University of Minnesota, Biostatistics Seminar Series (March, 2021) Preserving privacy in estimating individualized treatment rules from distributed data collection sites.
7. University of California - Santa Cruz, Statistics Seminar Series (January, 2021) Doubly robust estimation of adaptive treatment strategies through weighted regression.
8. Columbia University, Biostatistics Seminar Series (December, 2020) Doubly robust estimation of adaptive treatment strategies through weighted regression.
9. University of Michigan, Biostatistics Seminar Series (November, 2020) Doubly robust estimation of adaptive treatment strategies through weighted regression.
10. McMaster University, Mathematics and Statistics Department Colloquium (October, 2020) The SIMEX correction for measurement error: recent extensions for health research.

11. Université Laval, Centre hospitalier universitaire de Québec Seminar Series (October, 2020) The SIMEX correction for measurement error: recent extensions for epidemiological research.
12. University of Washington, Biostatistics Seminar Series (January, 2020) Doubly robust estimation of adaptive treatment strategies through weighted regression.
13. McGill University, Biostatistics Seminar Series (November, 2019) Social interference: Inference in the presence of influential friends.
14. University of North Carolina, Biostatistics Seminar Series (November, 2019) Doubly robust estimation of adaptive treatment strategies through weighted regression.
15. McGill University, Quantitative Life Sciences Seminar Series (December, 2018) SMART studies: An evidence-based approach to precision medicine.
16. McGill University, Cutting Edge Lectures in Science (December, 2018) Did this make that happen? What statisticians have to say about causality.
17. Université de Québec à Montréal, Séminaire Statistique (December, 2018) Statistical approaches to precision medicine: An overview.
18. Ipsen – Cambridge, MA location (December, 2018) SMART studies: An evidence-based approach to precision medicine
19. University of Winnipeg, Department of Mathematics and Statistics (September, 2018) An introduction to causal inference in statistics.
20. Université de Montréal, Faculté de pharmacie (December, 2017) Adaptive treatment strategies: An introduction from a statistical perspective.
21. Johns Hopkins University, Bloomberg School of Public Health, Department of Biostatistics (October, 2017) G-estimation: Is it all you need?
22. 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.
23. Dartmouth University, Department of Biostatistics and Epidemiology (May, 2015) SMART studies and the personalization of medical care.
24. University of Glasgow, Department of Statistics (May, 2014) SMART studies and the personalization of medical care.
25. Oxford University, Department of Statistics (April, 2014) SMART studies and the personalization of medical care.
26. London School of Hygiene and Tropical Health, Centre for Statistical Methodology (April, 2014) SMART studies and the personalization of medical care.
27. 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.
28. Cambridge University, Medical Research Council Biostatistics Unit (March, 2014) How SMART is your study? Obtaining quality data to estimate dynamic treatment regimes.
29. Oxford University, Centre for Statistics in Medicine (January, 2014) How SMART is your study? Obtaining quality data to estimate dynamic treatment regimes.

30. Université de Sherbrooke, Department of Mathematics (April, 2013) The current state of Q-learning for personalized medicine.
31. McGill University, Department of Mathematics & Statistics. (September, 2012) The current state of Q-learning for personalized medicine.
32. Ghent University, Center for Statistics. (July, 2012) Learning of optimal dynamic treatment rules from observational data.
33. McGill University, Department of Epidemiology, Biostatistics, & Occupational Health – Epidemiology seminar series. (March, 2012) Learning about optimal personalized treatment rules from observational data.
34. Harvard School of Public Health (September, 2010) Marginal structural models for competing risks.
35. London School of Hygiene and Tropical Medicine, Medical Statistics Unit (August, 2009) Structural nested modeling of optimal breastfeeding strategies.
36. MUHC Department of Clinical Epidemiology (March, 2009) Estimating unbiased dose-response curves from repeated measures in the presence of confounding.
37. 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.
38. Laval University, Department of Statistics (March, 2008) The multivariate generalized propensity score: Estimating dose-response functions from longitudinal data.
39. 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.
40. 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.
41. 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.
42. University of Winnipeg, Department of Mathematics and Statistics. (April, 2007) Optimal adaptive treatment regimes: unbiased estimation for endogenous variables.
43. 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.
44. 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. Member of the Scientific Programme Committee; organized and chaired three Invited Sessions at the CM-Statistics 2021 Conference (London, UK), December 18-20, 2021.
2. Organized the 2021 Annual meeting of the CRM StatLab, held online October 29, 2021.
3. Organized and chaired an Invited Session at the CMStatistics 2020 Conference (nominally in London, UK but held virtually due to COVID-19), December 19-21, 2020.
4. Organized the 2020 Annual meeting of the CRM StatLab, held online September 28, 2020.
5. Co-organized the Healthy Brains for Healthy Lives Annual Symposium, originally to be held May 7, 2020; cancelled due to COVID-19.
6. Co-organized a half-day *Longitudinal data & causal inference symposium*, originally to be held March 24, 2020; cancelled due to COVID-19.

7. 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.
8. 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).
9. 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.
10. 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.
11. 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.
12. 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.
13. 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.
14. 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.
15. 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.
16. Organized and chaired an Invited Session (sponsored by WNAR) at the Joint Statistical Meeting in Vancouver, BC, July 31-August 6, 2010.
17. Chaired a contributed session on “Biostatistics” at the Statistical Society of Canada (SSC) Meeting; Quebec, QC, May 22-26, 2010.
18. 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.
19. 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.
20. 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.

21. 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.

Media interviews and quotations:

1. “Omicron variant, testing backlog undermine effectiveness of COVID Alert app, expert says” CBC New Brunswick. Posted: December 29, 2021
2. “How many lives did Canada’s COVID-19 Alert app save? This new study did the math” Toronto Star. Posted: August 24, 2021
3. “What will a vaccinated world look like?” Interview with Tina Yazdani for CityNews Toronto. Aired 13 December, 2020.
4. “Inside Canada’s race to get a COVID-19 vaccine: ‘Unlike anything we’ve ever seen before’ ” Toronto Star. Posted: December 12, 2020
5. “Tous contre la COVID-19” Le devoir. Posted: November 21, 2020
6. Interview Marie Villeneuve on *Phare Ouest*, CBC Radio-Canada. November 5, 2020 (11:15AM)
7. “When will life return to normal? Montreal health experts offer their best guesses” CBC website. July 30, 2020
8. “New COVID-19 vaccine tracker developed by McGill scientists shows status of vaccines” McGill Tribune. Posted: November 3, 2020

G3g. Software

1. DTRreg: Dynamic treatment regime estimation & inference via G-estimation, dynamic WOLS, and Q-learning; implemented in R.
2. R Shiny app for user-friendly respondent-driven sampling data visualizations; <https://mamadou-yauck.shinyapps.io/rds-main/>

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
CAPES	Coordenacao de Aperfeicoamento de Pessoal de Nivel Superior (Brazil agency for Graduate Studies)
CHUM	Centre hospitalier de l'Université de Montréal
CIHR	Canadian Institutes of Health Research
CRM	Centre de recherches mathématiques
DSEN	Drug Safety and Effectiveness Network
EBOH	Epidemiology, Biostatistics, and Occupational Health
ENAR	Eastern North American Region of the IBS
FRQNT	Fonds de recherche du Québec - Nature et technologie
FRQS	Fonds de recherche du Québec - Santé
HBHL	Healthy Brains for Healthy Lives
IBS	International Biometrics Society
ISI	International Statistical Institute
ISM	Institut des sciences mathématiques
IVADO	Institut de valorisation des données
JSM	Joint Statistical Meetings
MiCM	McGill initiative in Computational Medicine
MITACS	Mathematics of Information Technology and Complex Systems
NIEHS	(U.S.) National Institute of Environmental Health Sciences
NIMH	(U.S.) National Institute of Mental Health
NISS	(U.S.) National Institute of Statistical Sciences
NSERC	Natural Sciences and Engineering Research Council
RRSPQ	Réseau de recherche en santé des populations du Québec
SER	Society for Epidemiologic Research
SPGH	School of Population and Global Health
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