

Curriculum Vitæ – Erica E. M. Moodie

February 16, 2024

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

A. IDENTIFICATION

Name: Erica Eleanor Margret Moodie
Affiliation: McGill University, Biostatistics
Montreal, Quebec
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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, Statistical Methods for Precision Medicine \$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 (x2)

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
			2022	13
			2023	
Data Analysis & Report Writing	BIOS 624	4	2023	

*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
2022	Statistical Methods for Precision Medicine: An overview	Harvard Catalyst Biostatistics Program	3	280

E3. Research Trainees Supervised **Indicates primary or sole supervision.*

Post-doctoral trainee supervision

2009-2011	*Michael Regier (Co-supervisor: Robert Platt) <i>Current position:</i> Director of Insurance Analytics, Verisk
2011-2013	*Olli Saarela (Co-supervisor: David Stephens) Finnish Foundation for Technology Promotion (40,000Euros) <i>Current position:</i> 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 <i>Current position:</i> 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) <i>Current position:</i> Assistant Professor, University of Waterloo
2018-2019	*Juliana Schulz <i>Current position:</i> Assistant Professor, HEC
2019-2021	*Mamadou Yauck SAMSI-CANSSI Postdoctoral Fellowship (\$65,125 USD) <i>Current position:</i> Assistant Professor, UQAM
2019-2022	*Eric Rose CANSSI-StatLab-CRM Postdoctoral Fellowship (\$45,000) <i>Current position:</i> Assistant Professor, SUNY Albany
2020-2022	Hiroshi Mamiya (Co-supervisor: Alexandra Schmidt) IVADO Postdoctoral Fellowship (\$70,000/year, two years)
2021-2022	Janie Coulombe Globalink FRQNT-Mitacs research fellowship (\$6,000) <i>Current position:</i> Assistant Professor, Université de Montréal
2022-2023	Dylan Spicker CANSSI-StatLab-CRM Postdoctoral Fellowship (\$53,000) Out to Innovate Career Development Fellowship (\$5,000) <i>Current position:</i> Assistant Professor, University of New Brunswick
2023-	Lara Mayeleff (Co-supervisor: Shirin Golchi)

Graduate students: Doctoral degree supervision

2000-2009	*Sheila McDonald, Ph.D. Epidemiology (Co-supervisor: John Lynch) CIHR Doctoral Award; (\$20,000/year, three years) <i>Current position:</i> 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
- 2012-2023 Ryan Kyle, Ph.D. Epidemiology (Co-supervisor: Michal Abrahamowicz)
Note: studies interrupted for five years
McGill University Faculty of Medicine Graduate Scholarship (\$12,000)
SSC Biostatistics Section Travel Award (\$250)
Studies interrupted for personal reasons.

- Current position:* Director, Statlog Inc.
- 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)
 GREAT Award (\$900 in 2018, \$1000 in 2019)
 Nominated for the CAGS/PROQUEST-UMI Distinguished Dissertation Award
Current position: Senior Biostatistician, Merck
- 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
 SSC Pierre Robillard Award, 2022
- 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
- 2017-2022 *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)
- 2017-2022 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)
Current position: Associate, Analysis Group
- 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
- 2018-2022 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)
 McGill Centre for Viral Diseases Travel Award (\$500, 2022)
Current position: Postdoctoral fellow, Harvard
- 2018-2023 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)
 FRQNT doctoral training award (\$28,000/year, three years)
 2022 SSC BISS Young Researcher Presentation Award
 GREAT Award (\$975 in 2023)
Current position: Senior Biostatistician, Roche
- 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: Nema Dean)
 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)
 FRQNT doctoral training award (\$21,000/year, three years)
 Three Minute Thesis competition EBOH, third place (\$100)
 2022 SSC Best Oral Presentation Award
 2022-23 McGill-Glasgow Travel Award (\$2,300)
 GREAT Award (\$975 in 2023)
 MCVD Travel Award (\$500)
 2023 SSC Oral Presentation Honourable Mention
 ISM Travel Award (\$500)
 Graduate Mobility Award (\$2,000)
- 2020-2022 Zeyu (Chris) Bian, Ph.D. Biostatistics (Co-supervisor: Sahir Bhatnagar)
 GREAT Award (\$345, 2022)
Current position: Postdoctoral fellow, University of Florida
- 2020- Junwei Shen, Ph.D. Biostatistics (Co-supervisor: Shirin Golchi)
 MITACS Accelerate Internship (August-December, 2020)
 SSC Case Studies Award (\$750, shared)
- 2020- James Willard, Ph.D. Biostatistics (Co-supervisor: Shirin Golchi)
 FRQNT doctoral training award (\$21,000/year, three years + 4 months)
 2022 SSC Best Oral Presentation Award
 McGill Faculty of Medicine doctoral fellowship (\$12,000), declined
 2023 JSM Section on Bayesian Statistical Science (SBSS) student paper competition award

- GREAT Award (\$1000 in 2023)
 2024 ASA Biopharmaceutical Section Student Paper Competition Honorable Mention (\$500)
- 2020- Haoyu Wu, Ph.D. Biostatistics (Co-supervisor: David Stephens)
 McGill Centre for Viral Diseases Travel Award
 McGill Alma Mater Fellowship (\$24,000)
 SSC Case Studies Award (\$750, shared)
- 2021- Jesse Gervais, Ph.D. Statistics (UQAM, Co-supervisor: Genevieve Lefebvre)
 ISM Graduate Award (\$8750, 2021)
 ISM Graduate Award (\$5,000, 2022)
- 2022- Niki Petrakos, Ph.D. Biostatistics
 SSC Case Studies Honourable Mention
 CRM Research Internship in France program award (\$7,500)
 McGill Graduate Mobility Award (\$4,400)

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 *S M 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)

2020- Ekaterina Pazukhina, M.Sc. Epidemiology (Co-supervisor: Christel Renoux)
(2021-2022: leave of absence)

2021-2023 Elham Bahrapour, M.Sc. Biostatistics (Co-supervisor: Juliana Schulz)

2021-2023 Charlene Weight, M.Sc. Epidemiology (Co-supervisor: Eric Latimer)
FRQS MSc Award (\$17,500)

2022- Mélanie Bédard, M.Sc. Epidemiology (Co-supervisor: Marina Klein)

2023- Misha Dolmatov, M.Sc. Biostatistics

2023- Tatiana Gopinauth, M.Sc. Biostatistics (Co-supervisor: Linda Wittkop)

2023- Siqi Cheng, M.Sc. Biostatistics (Co-supervisor: Shirin Golchi)

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

2023 Misha Dolmatov
ISM Undergraduate Summer Research Scholarship, \$5,000

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)
 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)

2021- Fiona Chan, Ph.D. Epidemiology (Supervisor: Robyn Tamblyn)

2022- Basant Elsiwi, Ph.D. Epidemiology (Supervisor: Jonathan Chevrier)

2022-2024 Megane Bouchard, M.Sc. Epidemiology (Supervisors: Christina Wolfson &
 Maura Pugliatti)
 McGill Faculty of Medicine Master's fellowship (\$10,000)
 Research Institute of the MUHC fellowship

2022- Yi-Chuan Yu, Ph.D. Epidemiology (Supervisor: Eduardo Franco)
 Clifford C.F. Wong fellowship (\$20,000)

Other supervision

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

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

Professional mentorship

- 2015-2019 Mentorship of a faculty member at ULaval for FRQS
- 2016-2023 Mentorship of new faculty members with Department of EBOH at McGill (x4)
- 2019- Provostial Mentorship Network mentor, McGill University
- 2022-2023 IBS Mentor, IBS
- 2022- University of Cambridge Darwin College Alumni Association career mentor
- 2023 Participation as mentor in CSEB mentorship event

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
- 2023 SSC Case Studies competition Faculty Mentor. First prize won by the team made up of J. Shen, H. Wu, and X. Zhao
- 2024 SSC Case Studies competition Faculty Mentor.

F. OTHER CONTRIBUTIONS

F1. Journals

Journal Editorships

- 2009, 2022 Guest Editor, *International Journal of Biostatistics*
- 2009-2013 Associate Editor, *International Journal of Biostatistics*
- 2011 Guest Editor, *Statistical Communications in Infectious Diseases*
- 2011-2013 Associate Editor, *Journal of Causal Inference*
- 2013- 2023 Associate Editor, *Biometrics*
- 2014-2019 Associate Editor, *Journal of the American Statistical Association, Theory & Methods*
- 2020- Statistical Editor, *Journal of Infectious Diseases*
- 2013- Associate Editor, *Biometrics*

2024-2026 Co-Editor, *Biometrics*

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
2023
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, 2021-2 U.S. Department of Education, Institute of Education Sciences Research Training Programs
2018, 2019 CIHR Project Grants (Public, Community & Population Health)
2021 *Recognized in 2019 as an Outstanding Reviewer by CIHR's Review Quality Assurance Process*
2020 CIHR COVID-19 Rapid Response Research Grants

F3. Administrative Responsibilities and Committees

Department of EBOH / 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	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
2014-2016	Organizer, Biostatistics Seminar Series
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
2023-2024	Director, Biostatistics Graduate Programs
2023-2024	Member, Departmental Tenure & Appointments Committee
2024	Member, EBOH Curriculum Committee

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)
2017-2020	Director, McGill Health Statistics Training Network
2018-2020	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
2020-	Mentor, Provostial Mentorship Network
2021, 2023	Member, Principal's Prize for Outstanding Emerging Researchers Awards Committee

- 2022 Member, Part B Exam Committee, Department of Mathematics & Statistics
- 2023-2024 Member, SPGH Education Standing Committee Meeting

I regularly volunteer as pro-dean for doctoral thesis examinations: 2013 x2, 2015 x2, 2016 x2, 2019 x2, 2020 x2, 2021 x3, 2022 x3, 2023 x1

National and International - leadership roles

- 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
- 2015-2019 Associate Director (Quebec) of CANSSI
- 2016-2017 Scientific Program Chair, SSC 2017 Annual Meeting
- 2016-2018-2019 Steering Group, Causal Inference Topic Group for STRATOS
- 2018-2019 Chair, Respectful SSC Committee
- 2020-2023 Director, CRM StatLab
- 2023 Chair, CRM-SSC Prize selection committee
- 2023-2026 President Elect/President/Past President, Statistical Society of Canada

National and International - committee membership and similar

- 2008-2013 Member, SSC Bilingualism Committee
- 2009-2014, & 2019-2022 Member, SSC Elections Committee
- 2012 Doctoral Thesis Examiner, University of Ghent, Statistical Data Analysis Program
- 2013-2015 Member, SSC Biostatistics Section Elections Committee
- 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 Member, Nominating Committee for the Scientific Advisory Committee of CANSSI
- 2016 Doctoral Thesis Examiner, Université Paris Ouest Nanterre, Mathematics Department
- 2016-2018 Steering Group, Causal Inference Topic Group for STRATOS
- 2018 Doctoral Thesis Examiner, University of Waterloo, Department of Statistics & Actuarial Sciences
- 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
- 2020-2024 CRM Representative to the SSC
- 2020-2023 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

2021-2023	Member, Scientific Programme Committee for the CMStatistics Annual Meeting
2022	Doctoral Thesis Examiner, Western University, Department of Epidemiology & Biostatistics
2022	Doctoral Thesis Examiner, Université de Toulouse, Programme de Statistique et Probabilités
2022-2024	Member, CRM Distinguished Lecture in Applied Maths Organizing Committee
2023	Pre-Doctoral Thesis Examiner, UQAM, Mathematics & Statistics Department
2023-2024	Member, SSC Fundraising Committee
2023-2024	Member, SSC Membership Committee
2024-2026	Member, CRM-SSC Prize selection 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
2020-2022	Research Network in Cardiometabolic Health, Diabetes and Obesity of the FRQS
2022-	American Statistical Association

G. RESEARCH

G1. Research Activities

My research programme currently focuses on two main topics in biostatistics: statistical methods for precision medicine and causal inference for “imperfect” data (missingness, irregular visits, measurement error, etc.). My applied work is in the areas of depression and of infectious disease (primarily HIV, but also some work in Hepatitis C and COVID-19).

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-PI: 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, \$276,000 (2019–2025), regular five-year grant plus a one year COVID extension.
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: Sylvie 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 – Fatty liver disease: Leveraging novel statistical methods to determine optimal screening strategy for people living with Type 2 Diabetes. PI: Sahar Saeed, \$390,105 (2024–2029)
18. CIHR Project Grant – A SMART design to optimize the delivery of TEMPO - a Tailored, wEb-based psychosocial and physical activity self-Management PrOgram for men with prostate cancer and their caregivers. PI: Sylvie Lambert, \$761,176 (2023–2027)

19. FQRS Accélération de la recherche et des soins pour le cancer au Québec (ACCES-Onco) – Vers des trajectoires de soins en cancer du sein personnalisées en fonction du risque et des besoins des patientes: une étude de faisabilité et d’acceptabilité. PI: Hermann Nabi, \$200,000 (2023-2025)
20. Rossy Cancer Network Cancer Care Quality & Innovation Program Research Fund – Beyond RCTs, what is the real-world evidence for patient-reported outcomes (PROs) screening in routine cancer care? Patients’ perspectives and impact on emergency room visits and survival. PI: Sylvie Lambert, \$92,526 (2023–2024)
21. CIHR Bridge Grant – Using a SMART design to optimize the delivery of TEMPO - a Tailored, web-based psychosocial and physical activity self-Management Program for men with prostate cancer and their caregivers. PI: Sylvie Lambert, \$100,000 (2023–2024)
22. CIHR Project Grant – After the Cure: Measuring the full impacts of direct acting antivirals for people living with HIV/hepatitis C virus coinfection in Canada. PI: Marina Klein, \$1,587,376 (2023–2027)
23. CIHR Project Grant – Trajectories of STBBIs, access to health services and psychosocial determinants among gay, bisexual and other men who have sex with men in three Canadian cities. PI: David Moore, \$1,449,674 (2023–2026)
24. CIHR Bridge Grant – After the Cure: Measuring the full impacts of direct acting antivirals for people living with HIV/hepatitis C virus coinfection in Canada. PI: Marina Klein, \$100,000 (2022–2023)
25. CIHR Project Grant – Exploring spatio-temporal patterning of food insecurity within the island of Montreal: Model-based small area estimation using the Canadian Community Health Surveys, 2011-2020. PI: Alexandra Schmidt, \$110,000 (2022–2024)
26. Programme intersectoriel AUDACE – Trouver ATLANTIS: identification de l’instabilité de la plaque Athérosclérotique à l’aide de techniques d’apprentissage en profondeur. PI: Styliani Stella Daskalopoulou, \$127,000 (2022–2023)
27. 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)
28. Canadian Trials Network – Tracking a revolution: Evaluating the impact of modern HCV therapy on HIV-HCV coinfection. PI: Marina Klein, \$384,000 (2021–2024)
29. 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)
30. 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)
31. 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)
32. IVADO Fundamental Research Projects Grant – Statistical modelling of health trajectories and interventions. PI: David Stephens. \$216,000. (2020–2022)
33. McGill MI4 Emergency COVID-19 Fund – Real-time tracking of COVID-19 vaccine development. PI: Nicole Basta. \$92,208. (2020–2022)
34. 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)

35. 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)
36. 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)
37. 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)
38. FRQNT Team Grant – Méthodes d'inférence causale et la prise de décision dans un cadre bayésien. PI: David Stephens, \$205,740 (2018–2021)
39. 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: Sylvie Lambert, \$99,969 (2017–2018)
40. CIHR Catalyst Grant – Biostatistical methods for estimating the cumulative impact of environmental contaminant exposures on preterm birth. PI: Lawrence McCandless, \$198,330 (2017–2019)
41. CIHR Project Grant – New statistical methods for cohort studies of adverse effects of medications. PI: Michal Abrahamowicz, \$753,035 (2016–2021)
42. 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)
43. CIHR Foundation Scheme – Statistical methods in pharmacoepidemiology and perinatal epidemiology. PI: Robert Platt, \$1,071,721 (2015–2022)
44. 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)
45. 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)
46. CIHR Operating Grant – Understanding blood pressure and end organ damage in adolescents. PI: Michael Zaitelli, \$438,115 (2014–2018)
47. CIHR Bridge Grant – The coming revolution in HCV therapy: Will HIV-HCV co-infected patients really benefit? PI: Marina Klein, \$100,000 (2014–2015).
48. 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).
49. CIHR Operating Grant – Propensity scores and marginal structural models in drug safety research, PI: Robert Platt, \$405,940 (2012–2015).
50. 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).
51. CIHR Operating Grant – Development of strategies to curb the Quebec HIV epidemic based on molecular epidemiological surveillance, PI: Bluma Brenner, \$311,718 (2011–2014).

52. 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).
53. FRQNT Team Grant – Méthodes statistiques pour les études multiniveaux, PI: Nandini Dendukuri, \$145,800 (2008–2011).
54. 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)

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

Other grants: Title, PI, total (years)

56. Simons Foundation Mathematics and Physical Sciences - Targeted Grants to Institutes – CRM Scholars Program, PI: Octave Cornea, USD\$750,000 (2022–2025).
57. FRQNT Regroupements stratégiques – CRM, PI: Octave Cornea, \$3,000,000 (2022–2028).
58. NSERC Discovery Institutes program – CRM, PI: Octave Cornea, \$5,220,065 (2022–2027).
59. NSERC Discovery Institutes program – CANSSI, PI: Don Estep, \$5,768,740 (2022–2027).
60. CIHR AI Summer School – AI for public health (AI4PH): A focus on equity and prevention, PI: David Buckeridge, \$525,000 (2019–2024).
61. 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
62. 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
63. 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).
64. CANSSI Distinguished Visitor Program Grant. \$3,050 (2017). Co-organizers: Gabrielle Simoneau, Marie-Pier Côté.
65. CANSSI Health Science Collaborating Centre seed grant – McGill Health Statistics Training Network. \$10,000 (2017).
66. CANSSI Distinguished Visitor Program Grant. \$3,000 (2016). Co-organizers: Kevin McGregor, Gabrielle Simoneau.
67. 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).
68. 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).

69. SAMSI Workshop Grant – Statistical causal inference and its applications to genetics. PI: Robin Evans (University of Oxford), \$6,500USD (2016)
70. CIHR Meetings, Planning and Dissemination Grants – Causal inference in health research, \$10,410 (2011). Co-organizers (McGill University): Jay Kaufman, Robert Platt.
71. *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. **Wu H.**, Stephens D. A., and Moodie E. E. M. (2024) An SIR-based Bayesian framework for COVID-19 infection estimation. *Canadian Journal of Statistics* (accepted)
2. Cook R. J. and Moodie E. E. M. (2024) A retrospective and prospective study of biostatistics in Canada. *Canadian Journal of Public Health* (accepted)
3. **McNealis V.**, Moodie E. E. M., and Dean N. (2024) Revisiting the effects of maternal education on adolescents' academic performance: Doubly robust estimation in a network-based observational study. *Journal of the Royal Statistical Society: Series C* (accepted)
4. **Willard J.**, Golchi S., and Moodie E. E. M. (2024) Covariate adjustment in Bayesian adaptive randomized controlled trials. *Statistical Methods in Medical Research* (accepted)
5. **Bian Z.**, Moodie E. E. M., Shortreed S. M., Lambert S. D., and Bhatnagar S. R. (2023) Variable selection for individualized treatment rules with discrete outcomes. *Journal of the Royal Statistical Society, Series C* (accepted)
6. Moodie E. E. M., **Bian Z.**, Coulombe J., Lian Y., Yang A., and Shortreed S. M. (2023) Variable selection in high dimensions for discrete-outcome individualized treatment rules: A case study in reducing severity of depression symptoms. *Biostatistics* (accepted)
7. **Sun S.**, Moodie E. E. M., and Nevarslehová J. (2023) Principal stratification for quantile causal effects under partial compliance. *Statistics in Medicine* **43**:34-48.
8. Li X., Logan B. R., **Hossain S. M. F.**, and Moodie E. E. M. (2023) Dynamic treatment regimes using Bayesian additive regression trees for censored outcomes *Lifetime Data Analysis* (accepted)
9. Moodie E. E. M. and Talbot D. (2023) On 'Reflections on the concept of optimality of single decision point treatment regimes'. *Biometrical Journal* **65**:2300027
10. Talbot D. and Moodie E. E. M. (2023) Partially adaptive treatment strategies. *Wiley StatsRef*
doi:10.1002/9781118445112.stat08443
11. **Spicker D.**, Moodie E. E. M. and Shortreed S. M. (2023) Differentially private outcome-weighted learning for optimal dynamic treatment regime estimation. *Stat* **e13**:e641.
12. **Turchetta A.**, Savy N., Stephens D. A., Moodie E. E. M., and Klein M. B. (2023) A time-dependent Poisson-Gamma model for recruitment forecasting in multicenter studies. *Statistics in Medicine* **42**:4193–4206.

13. **Turchetta A.**, Moodie E. E. M., Stephens D. A., and Lambert S. D. (2023) Bayesian sample size calculations for comparing two strategies in SMART studies. *Biometrics* **79**:2489–2502.
14. **Spicker D.**, Moodie E. E. M. and Genest C. (2023) Le secret statistique. *Accromath* **18**:40–45.
15. **Rose E. J.**, Moodie E. E. M., and Shortreed S. M. (2023) Using pilot data for power analysis of observational studies for the estimation of dynamic treatment regimes. *Observational Studies* **9**:25–48.
16. **Nobre W. S.**, Schmidt, A. M., Moodie E. E. M., and Stephens D. A. (2023) The impact of directly observed therapy on the efficacy of Tuberculosis treatment: A Bayesian multilevel approach. *Journal of the Royal Statistical Society, Series C* **72**:889–911.
17. Saarela O., Stephens D. A., and Moodie E. E. M. (2023) The role of exchangeability in causal inference. *Statistical Science* **38**:369–385.
18. **Rodriguez Duque D.**, Stephens D. A., Moodie E. E. M., and Klein M. B. (2023) Semi-parametric Bayesian inference for optimal dynamic treatment regimes via dynamic marginal structural models. *Biostatistics* **24**:708–727.
19. Stephens D. A., **Nobre W. S.**, Moodie E. E. M., and Schmidt, A. M. (2023) Causal inference under misspecification: Adjustment based on the propensity score. *Bayesian Analysis* **18**:639–694.
20. **Dong L.**, Moodie E. E. M., Villain L., and Thiébaud R. (2023) Evaluating the use of generalized dynamic weighted ordinary least squares for individualized HIV treatment strategies. *Annals of Applied Statistics* **17**:2432–2451.
21. **Rodriguez Duque D.**, Moodie E. E. M., and Stephens D. A. (2023) Bayesian inference for optimal dynamic treatment regimes in practice. *International Journal of Biostatistics* doi.org/10.1515/ijb-2022-0073
22. Moodie E. E. M. (2023) Causal inference and confounding: A primer for interpreting and conducting infectious disease research. *Journal of Infectious Diseases* **228**:365–367.
23. Schulz J., Moodie E. E. M., and Shortreed S. M. (2023) No unmeasured confounding: Known unknowns or ...not? *American Journal of Epidemiology* **192**:1604–1605.
24. **Coulombe J.**, Moodie E. E. M., Shortreed S. M., and Renoux C. (2023) Estimating individualized treatment rules in longitudinal studies with covariate-driven observation times. *Statistical Methods in Medical Research* **32**:868–884.
25. **Rose E. J.**, Moodie E. E. M., and Shortreed S. M. (2023) Monte Carlo sensitivity analysis for unmeasured confounding in dynamic treatment regimes. *Biometrical Journal* **65**:2100359.
26. Talbot D., Moodie E. E. M. and Diorio C. (2023) Double robust estimation of optimal partially adaptive treatment strategies: an application to breast cancer treatment using hormonal therapy. *Statistics in Medicine* **42**:178–192.
27. Savy N., Moodie E. E. M., Drouet I., Chambaz A., Falissard B., Kosorok M. R., Krakow E. F., Mayo D. G., Senn S., and van der Laan, M. (2022) Statistics, philosophy, and health: The SMAC 2021 webconference. *International Journal of Biostatistics* doi:10.1515/ijb-2022-0017
28. **Mamiya H.**, Schmidt A. M., Moodie E. E. M., and Buckeridge D. L. (2022) Revisiting transfer functions: Learning about a lagged exposure-outcome association in time-series data. *International Journal of Public Health* **67**:1604841 doi:10.3389/ijph.2022.1604841
29. Moodie E. E. M. and Stephens D. A. (2022) Causal inference: Critical developments, past and future. *Canadian Journal of Statistics* **50**:1299–1320.

30. Moodie E. E. M. (2022) Causal inference for oncology: Past developments and current challenges. *International Journal of Biostatistics* doi.org/10.1515/ijb-2022-0056
31. Douwes-Shultz D., **Sun S.**, Schmidt A. M., and Moodie E. E. M. (2022) Extended Bayesian endemic-epidemic models for incorporating mobility data into COVID-19 forecasting. *Canadian Journal of Statistics* **50**:713–733.
32. Moodie E. E. M., **Coulombe J.**, **Danieli C.**, Renoux C., and Shortreed, S. M. (2022) Privacy-preserving estimation of an optimal individualized treatment rule: A case study in maximizing time to severe depression-related outcomes. *Lifetime Data Analysis* **28**:512–542.
33. **Coulombe J.**, Moodie E. E. M., Platt R. W., and Renoux C. (2022) Estimation of the marginal effect of antidepressants on body mass index under confounding and endogenous covariate-driven monitoring times. *Annals of Applied Statistics* **16**:1868–1890.
34. **Shen J.**, Golchi S., Moodie E. E. M., and Benrimoh D. (2022) Bayesian group sequential designs for cluster-randomized trials. *Stat* **11**:e487.
35. Genest C. and Moodie E. E. M. (2022) Y a-t-il relation de cause à effet ? La science statistique de l'inférence causale. *Accromath* **17**:14–19.
36. **Yauck M.**, Moodie E. E. M., Apelian H., Fourmigue A., Grace D., Hart T. A., Lambert G., and Cox J. (2022) Neighborhood bootstrap for respondent-driven sampling. *Journal of Survey Statistics and Methodology* **10**:419–438.
37. **Wang S.**, Moodie E. E. M., Stephens D. A., and Nijjar J. S. (2022) Adaptive treatment strategies for chronic conditions: Shared-parameter G-estimation with an application to rheumatoid arthritis. *Biostatistics* **23**:430–448.
38. **Danieli C.** and Moodie E. E. M. (2022) Preserving data privacy when using multi-site data to estimate individualized treatment rules. *Statistics in Medicine* **41**:1627–1643.
39. Wu J., Galanter N., Shortreed S. M., and Moodie E. E. M. (2022) Ranking tailoring variables for constructing individualized treatment rules: an application to schizophrenia. *Journal of the Royal Statistical Society, Series C* **71**:309–330.
40. **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* **79**:988–999.
41. **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* **30**:2105–2118.
42. **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.
43. **Sun S.**, Moodie E. E. M., and Nevarslehová J. (2021) Causal inference for quantile treatment effects. *Environmetrics* **32**:e2668.
44. 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.
45. **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.

46. **Schulz J.** and **Moodie E. E. M.** (2021) Doubly robust estimation of optimal dosing strategies. *Journal of the American Statistical Association* **116**:256–268.
47. **Yauck M.** and **Moodie E. E. M.** (2021) Sampling from networks: Respondent-driven sampling. *Epidemiologic Methods*, **10** doi:10.1515/em-2020-0033.
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Substantive papers -

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G3b. Books

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

This book was among the top 25% most downloaded eBooks in its respective eBook Collection in 2019 and saw over 30,000 chapter downloads from online publication up to August 28, 2020.

G3c. Books Edited

1. Adaptive Treatment Strategies in Practice: Planning Trials and Analyzing Data for Personalized Medicine. (2015) Edited by Kosorok M. R. and Moodie E. E. M. ASA-SIAM (American Statistical Association-Society for Industrial Mathematics) Publishing. Philadelphia, PA.
2. Handbook of Statistical Methods for Precision Medicine. (2024) Edited by Cai T., Chakraborty B., Laber E., Moodie E. E. M., and van der Laan M. CRC Press.

G3d. Book Chapters

- 1.
2. **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.
3. **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.
4. **Krakow E. K.** and Moodie E. E. M. (2018) Tools for the precision medicine era: developing highly adaptive and personalized treatment recommendations using SMARTs. In “A Guide to Outcome Modeling In Radiotherapy and Oncology: Listening to the Data.” Edited by El-Naqa I. Taylor & Francis.
5. Lambert S. D., Ould Brahim L., and Moodie E. E. M. (2023) Being SMART about behavioral intervention trials for the management of chronic conditions: Lessons learned using Sequential Multiple Assignment

Randomized Trials (SMARTs). In “Case Studies in Innovative Clinical Trials.” Edited by Yu B. and Broglio K. Chapman & Hall.

6. **Bian Z., Moodie E. E. M., Shortreed S. M., Lambert S., and Bhatnagar S.** (2024) Tailoring variable selection and ranking for optimal treatment decisions. In “Handbook of Statistical Methods for Precision Medicine.” Edited by Cai T., Chakraborty B., Laber E., Moodie E. E. M., and van der Laan M. CRC Press.
7. **Dolmatov M., Petrakos N. Z., Moodie E. E. M., Thomas R., Durand M., Klein M. B., and de Poko- mandy A.** (2004) Regression-based estimation of optimal adaptive treatment strategies: Key methods. In “Biostatistical Analysis Methodology in Biopharmaceutical Development: 80-Years of Contributions and Dedications from the Deming Conference.” Edited by Chen D.-G. Springer.

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 over 7.5 million unique users in more than 180 countries (with over 20.5 million page views) from its launch until updating was stopped in December 2022. 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
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14. Moodie E. E. M. (2004) Letter to the editor. *Clinical Trials*, **1**: 471.

G3f. Conference Presentations

Conference presentations (invited) -

1. CMStat conference, Berlin, Germany and online (December, 2023) New approaches to design and monitoring of SMARTs.
2. CSEB conference, Halifax, Canada (June, 2023). A Look Forward: Needs, opportunities, and directions for epidemiology and biostatistics in Canada. Keynote Speaker.
3. SSC, Ottawa, Canada (May, 2023). Mentorship for statisticians (panel presentation).
4. CSSC, Ottawa, Canada (May, 2023). Keynote Speaker.
5. Webinar series offered jointly by the ASA’s Committee on International Relations in Statistics (CIRS) and Statistics Without Borders, online (May, 2023). Causal inference in statistics: why, what, and how.
6. CMStat conference, London, UK and online (December, 2022) Penalized doubly robust regression-based estimation of adaptive treatment strategies.
7. JSM, Washington DC (August, 2022) Preserving privacy in estimating individualized treatment rules from distributed data collection sites.
8. Emerging challenges for statistics and data sciences: Complex data with missingness, measurement errors, and high dimensionality, Banff International Research Station (May, 2022) Penalized doubly robust regression-based estimation of adaptive treatment strategies.
9. McGill University School and Population and Global Health Launch Symposium, Montreal, QC (May, 2022) Recent successes and new challenges in individually-tailored treatment strategies.
10. Biostatistics: Foundations and the Era of Data Science conference, online (April, 2022) Social interference: Estimation among influential friends.
11. CMStat conference, London, UK and online (December, 2021) Estimating individualized treatment rules from distributed data collection sites.

12. International Biometric Society - Italian Region, online (September, 2021) Causal thinking in medical statistics.
13. Statistics 2021 Canada, online (July, 2021) Preserving privacy in estimating individualized treatment rules from distributed data collection sites.
14. ISI World Statistics Congress, online (July, 2021) Reflections on recent advancements in causal analysis with application in policy decisions.
15. 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.
16. SSC Annual Meeting, online (June, 2021) Regression-based methods to estimate adaptive treatment strategies. Keynote Speaker: CRM-SSC Prize lecture.
17. CANSSI-NISS Health Data Science Workshop, online (April, 2021) Preserving privacy in estimating individualized treatment rules from distributed data collection sites.
18. 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.
19. COVID-19 Helmholtz Institute for Infection Research, online (December, 2020) Tracking the development of COVID-19 vaccines.
20. Neuro-Gairdner Open Science in Action Symposium, Montreal Neurological Institute, Montreal (November, 2020) Panel discussion on ‘Open Science and Healthcare Innovation’.
21. CMStat conference, London, UK (December, 2019) User-friendly estimation of optimal adaptive treatment strategies.
22. 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.
23. SAMSI Precision Medicine Transition Workshop, Durham North Carolina (May, 2019) Sequential decision-making with observational data.
24. McGill initiative on Computational Medicine Symposium, Montreal, QC (November, 2018) Statistical perspectives on precision medicine: Tailoring immunosuppressant therapy to transplant patients. Keynote address.
25. JSM, Vancouver, BC (August, 2018) Shared-parameter G-estimation of optimal treatments for rheumatoid arthritis.
26. SSC Annual Meeting, Montreal, QC (June, 2018) Shared-parameter G-estimation of optimal treatments for rheumatoid arthritis.
27. ENAR/IBS Meeting, Atlanta, GA (March, 2018) Shared-parameter G-estimation of optimal treatments for rheumatoid arthritis.
28. Atelier de maillage, Montreal, QC (March 2018) CANSSI: The role of statisticians in data science.
29. 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.

30. 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.
31. 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.
32. International Society for Clinical Biostatistics (ISCB), Vigo, Spain (July, 2017) Personalizing immunosuppressant regimes following transplantation.
33. Blood and Marrow Transplantation (BMT) Tandem Meetings, Orlando, FL (February, 2017) An introduction to adaptive treatment strategies.
34. Joint Statistical Meetings (JSM), Chicago, IL (August, 2016) The vexing problem of analyzing real data: Discussion of ‘Personalized dose finding using outcome weighted learning’.
35. Joint Statistical Meetings (JSM), Chicago, IL (August, 2016) Model validation and selection in estimation of dynamic treatment regimes.
36. 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?
37. 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.
38. World Statistics Congress, Rio de Janeiro, Brazil (July, 2015) A cure-rate model for estimating the optimal dynamic treatment sequence following bone marrow transplantation.
39. 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.
40. United Kingdom Causal Inference Meeting, Bristol, UK (April, 2015) Correcting measurement error in HIV phylogenetic cluster size.
41. 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.
42. United Kingdom Causal Inference Meeting, Cambridge, UK (April, 2014) Addressing measurement error in the confounders in inverse probability weighting.
43. 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.
44. Joint Statistical Meetings (JSM), Montreal, QC (August, 2013) Q-learning with a useful utility.
45. Conference for the Society for Clinical Trials, Boston, MA (May, 2013) Generating candidate optimal individualized dosing strategies.
46. University of Pennsylvania 6th Annual Conference on Statistical Issues in Clinical Trials, Philadelphia, PA (April, 2013) Generating candidate optimal individualized dosing strategies.
47. Eastern North American Region of the International Biometric Society (ENAR/IBS) Meeting, Orlando, FL (March, 2013) Generating candidate optimal individualized dosing strategies.

48. 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”.
49. SSC, Guelph, ON (June, 2012) Q-learning for Estimating Optimal Dynamic Treatment Rules from Observational Data.
50. 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.
51. 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.
52. 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.
53. Joint Statistical Meetings (JSM), Washington D.C. (August, 2009) Structural nested mean modeling of response-maximized breastfeeding strategies.
54. 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.
55. WNAR/IBS Meeting, Davis, CA (June, 2008) Quantifying dose-response for a continuous treatment in the presence of non-compliance or confounding.
56. 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.
57. SSC Annual Meeting; St. John’s, NL (June, 2007) Quantifying dose-response for a continuous treatment in the presence of non-compliance or confounding.
58. 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. Online Causal Inference Seminar, <https://sites.google.com/view/ocis/home> (December, 2023) Flexible modeling of adaptive treatment strategies for censored outcomes.
2. CRM Colloque des sciences mathématiques du Québec (May, 2023) Estimating individualized treatment rules without individual data in multicentre studies.
3. Massachusetts General Hospital BioPhysics Seminar Series (April, 2023) An introduction to estimating adaptive treatment strategies via a regression-based approach.
4. University of Vermont, Mathematics and Statistics Seminar Series (January, 2023) Penalized doubly-robust estimation of adaptive treatment strategies.
5. Cambridge University, Darwin College Seminar Series (January, 2023) Did this make that happen? Causality and the statistician.

6. University of Utah, Study Design and Biostatistics Center Seminar Series (December, 2022) An introduction to estimating adaptive treatment strategies via a regression-based approach.
7. MD Anderson, Biostatistics Seminar Series (June, 2022) Preserving privacy in estimating individualized treatment rules from distributed data collection sites.
8. National Institute for Research in Digital Science and Technology (Inria) Seminar Series (May, 2022) Regression-based methods to estimate adaptive treatment strategies.
9. Duke University, Biostatistics & Bioinformatics Seminar Series (February, 2022) Preserving privacy in estimating individualized treatment rules from distributed data collection sites.
10. Dawson College, Enriched Science Seminar Series (January, 2022) Causal inference in statistics: Did this cause that?
11. Centre for Statistical Methodology at the London School of Hygiene and Tropical Medicine, online (November, 2021) Estimating adaptive treatment strategies for survival outcomes.
12. University of Toronto, Statistics Graduate Student Research Day (April, 2021) Social interference: Inference in the presence of influential friends.
13. Yale University, Biostatistics Seminar Series (April, 2021) Preserving privacy in estimating individualized treatment rules from distributed data collection sites.
14. University of Minnesota, Biostatistics Seminar Series (March, 2021) Preserving privacy in estimating individualized treatment rules from distributed data collection sites.
15. University of California - Santa Cruz, Statistics Seminar Series (January, 2021) Doubly robust estimation of adaptive treatment strategies through weighted regression.
16. Columbia University, Biostatistics Seminar Series (December, 2020) Doubly robust estimation of adaptive treatment strategies through weighted regression.
17. University of Michigan, Biostatistics Seminar Series (November, 2020) Doubly robust estimation of adaptive treatment strategies through weighted regression.
18. McMaster University, Mathematics and Statistics Department Colloquium (October, 2020) The SIMEX correction for measurement error: recent extensions for health research.
19. Université Laval, Centre hospitalier universitaire de Québec Seminar Series (October, 2020) The SIMEX correction for measurement error: recent extensions for epidemiological research.
20. University of Washington, Biostatistics Seminar Series (January, 2020) Doubly robust estimation of adaptive treatment strategies through weighted regression.
21. McGill University, Biostatistics Seminar Series (November, 2019) Social interference: Inference in the presence of influential friends.
22. University of North Carolina, Biostatistics Seminar Series (November, 2019) Doubly robust estimation of adaptive treatment strategies through weighted regression.
23. McGill University, Quantitative Life Sciences Seminar Series (December, 2018) SMART studies: An evidence-based approach to precision medicine.
24. McGill University, Cutting Edge Lectures in Science (December, 2018) Did this make that happen? What statisticians have to say about causality.

25. Université de Québec à Montréal, Séminaire Statistique (December, 2018) Statistical approaches to precision medicine: An overview.
26. Ipsen – Cambridge, MA location (December, 2018) SMART studies: An evidence-based approach to precision medicine
27. University of Winnipeg, Department of Mathematics and Statistics (September, 2018) An introduction to causal inference in statistics.
28. Université de Montréal, Faculté de pharmacie (December, 2017) Adaptive treatment strategies: An introduction from a statistical perspective.
29. Johns Hopkins University, Bloomberg School of Public Health, Department of Biostatistics (October, 2017) G-estimation: Is it all you need?
30. 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.
31. Dartmouth University, Department of Biostatistics and Epidemiology (May, 2015) SMART studies and the personalization of medical care.
32. University of Glasgow, Department of Statistics (May, 2014) SMART studies and the personalization of medical care.
33. Oxford University, Department of Statistics (April, 2014) SMART studies and the personalization of medical care.
34. London School of Hygiene and Tropical Health, Centre for Statistical Methodology (April, 2014) SMART studies and the personalization of medical care.
35. 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.
36. Cambridge University, Medical Research Council Biostatistics Unit (March, 2014) How SMART is your study? Obtaining quality data to estimate dynamic treatment regimes.
37. Oxford University, Centre for Statistics in Medicine (January, 2014) How SMART is your study? Obtaining quality data to estimate dynamic treatment regimes.
38. Université de Sherbrooke, Department of Mathematics (April, 2013) The current state of Q-learning for personalized medicine.
39. McGill University, Department of Mathematics & Statistics. (September, 2012) The current state of Q-learning for personalized medicine.
40. Ghent University, Center for Statistics. (July, 2012) Learning of optimal dynamic treatment rules from observational data.
41. McGill University, Department of Epidemiology, Biostatistics, & Occupational Health – Epidemiology seminar series. (March, 2012) Learning about optimal personalized treatment rules from observational data.
42. Harvard School of Public Health (September, 2010) Marginal structural models for competing risks.
43. London School of Hygiene and Tropical Medicine, Medical Statistics Unit (August, 2009) Structural nested modeling of optimal breastfeeding strategies.

44. MUHC Department of Clinical Epidemiology (March, 2009) Estimating unbiased dose-response curves from repeated measures in the presence of confounding.
45. 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.
46. Laval University, Department of Statistics (March, 2008) The multivariate generalized propensity score: Estimating dose-response functions from longitudinal data.
47. 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.
48. 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.
49. 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.
50. University of Winnipeg, Department of Mathematics and Statistics. (April, 2007) Optimal adaptive treatment regimes: unbiased estimation for endogenous variables.
51. 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.
52. Colloque du Centre de Recherches Mathématiques. (October, 2006) Introduction to optimal dynamic treatment regimes.

Conference presentations (contributed) -

1. Greek Stochastics Meeting, Naxos, Greece (July, 2023) Adaptive treatment strategies: Methodological challenges and opportunities. *Note:* This was a peer reviewed/selected contribution.
2. 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.
3. 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.
4. Statistical Society of Canada (SSC) meeting; Wolfville, NS (June, 2011) Estimation of optimal dynamic treatment rules with shared parameters and non-regularity
5. 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.
6. 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.
7. 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.

8. WNAR/IBS Meeting; Fairbanks, AK (June, 2005) A new calculation for recursive g-estimation of optimal dynamic treatment regimes.
9. 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 an Invited Session at the CMStat 2023 Conference (hybrid meeting held in Berlin, Germany and online), December 16-18, 2023.
2. Organized an Invited Session at the 2023 ISI World Statistics Conference, July 2023.
3. Co-organized a half-day workshop *Best practice in ethical data analysis*, February 17, 2023. The CRM and CANSSI contributed \$1,000 and \$900, respectively, towards the meeting.
4. Member of the Scientific Programme Committee; organized an Invited Session at the CMStat 2022 Conference (hybrid meeting held in London, UK and online), December 17-19, 2022.
5. Member of the Scientific Programme Committee; organized and chaired three Invited Sessions at the CMStat 2021 Conference (hybrid meeting held in London, UK and online), December 18-20, 2021.
6. Organized the 2021 Annual meeting of the CRM StatLab, held online October 29, 2021.
7. Organized and chaired an Invited Session at the CMStat 2020 Conference (nominally in London, UK but held virtually due to COVID-19), December 19-21, 2020.
8. Organized the 2020 Annual meeting of the CRM StatLab, held online September 28, 2020.
9. Co-organized the Healthy Brains for Healthy Lives Annual Symposium, originally to be held May 7, 2020; cancelled due to COVID-19.
10. Co-organized a half-day *Longitudinal data & causal inference symposium*, originally to be held March 24, 2020; cancelled due to COVID-19.
11. 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.

12. 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).
13. 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.
14. 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.
15. 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.
16. 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.
17. 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.
18. 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.
19. 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.
20. Organized and chaired an Invited Session (sponsored by WNAR) at the Joint Statistical Meeting in Vancouver, BC, July 31-August 6, 2010.
21. Chaired a contributed session on “Biostatistics” at the Statistical Society of Canada (SSC) Meeting; Quebec, QC, May 22-26, 2010.
22. 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.
23. 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.
24. 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.
25. 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, dWOLS, Q-learning, and dwSurv; 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

BISS	Business and Industrial Statistics Section
CAN-AIM	CANadian 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
CMStat	Computational and Methodological Statistics
CRM	Centre de recherches mathématiques
CSEB	Canadian Society of Epidemiology & Biostatistics
CSSC	Canadian Statistics Student Conference
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
GREAT	Graduate Research Enhancement and Travel
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
MCVD	McGill Centre for Viral Diseases
MiCM	McGill initiative in Computational Medicine
MITACS	Mathematics of Information Technology and Complex Systems
MUHC	McGill University Health Centre
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