

Curriculum Vitae

Name: Sam Harper
Office: Department of Epidemiology, Biostatistics & Occupational Health, 2001
Avenue McGill College, Suite 1200, Montreal, QC H3A 1G1

Telephone: (514) 398-2856
Fax: (514) 398-4503

Email: sam.harper@mcgill.ca
Website: <https://samharper.org>

Citizenship: United States, Canada (Naturalized)
Languages: English, French (Basic)

Education

2001-2005	Doctor of Philosophy in Epidemiologic Science, University of Michigan, Ann Arbor, MI, USA. Dissertation: <i>Using Publicly Available Data to Monitor and Investigate Health Inequalities</i> .
1997-1999	Master of Science in Public Health, Epidemiology, University of South Carolina, Columbia, SC, USA. Thesis: <i>A Multilevel Analysis of Intimate Partner Violence</i> .
1991-1995	Bachelor of Arts, Biology. Westminster College, Fulton, MO, USA.

Appointments

2019-2022	Endowed Chair of Impact of Health and Social Policies on Health Inequality, Erasmus Medical Center, Rotterdam, The Netherlands
2015-present	Associate Professor, Department of Epidemiology, Biostatistics & Occupational Health, McGill University
2008-2010	Assistant Professor (Non-Tenure Track), Department of Epidemiology, Biostatistics & Occupational Health, McGill University
2005-2008	Postdoctoral Fellow, Department of Epidemiology, Biostatistics & Occupational Health, McGill University

Special Honors, Awards, Recognitions

2020	Paper of the Year (2019), <i>American Journal of Epidemiology</i>
2019	Top 1% of Peer Reviewers - Social Sciences, Publons
2019-2020	Faculty Fellowship, Project TIER (Teaching Integrity in Empirical Research)
2014	British Medical Association Book Award: Highly Commended for <i>Health Inequality Monitoring: With a Special Focus on Low- and Middle-income Countries</i>
2013-2017	Chercheur-Boursier Junior 2 award, Fonds de recherche du Québec – Santé. \$241,008
2009-2013	Chercheur-Boursier Junior 1 award, Fonds de Recherche en Santé du Québec. \$219,764
2007	Nominee, top article for 2007: The Year in Research, Robert Wood Johnson Foundation.
2007	Nominee, Paper of the Year, 2006, Lancet.

Other Contributions

Journals

Editorial boards

2022	Guest Editor (with Shelley Clark and Bruce Weber), <i>RSF: The Russell Sage Foundation Journal of the Social Sciences</i> , Special Issue on Growing up in Rural America
2019-present	Editorial Board, <i>Injury Prevention</i>
2018-present	Editorial Board, <i>Social Science & Medicine-Population Health</i>

Ad hoc reviews

Epidemiology and Public Health

American Journal of Public Health; Annals of Epidemiology; Epidemiology; International Journal of Epidemiology; Journal of Epidemiology & Community Health; Social Science & Medicine; Scandinavian Journal of Public Health; BMC Public Health; Paediatrics & Child Health; International Journal for Equity in Health; Caries Research; Journal of Urban Health; Health & Place; American Journal of Epidemiology; International Journal of Obesity; Cancer Management and Research; Open Medicine; International Journal of Pediatric Obesity; Cancer Epidemiology, Biomarkers & Prevention; British Journal of Cancer; BMC Cancer; European Journal of Public Health; Cancer Causes & Control; PLOS ONE; Addiction; Population Health Metrics; Global Health Action; Traffic Injury Prevention; Cancer; Oxford University Press (book proposal); Journal of Drug Issues; Environmental Health; Nature Communications Medicine; Nature; Nature Medicine

General Medicine

Annals of Internal Medicine; BMJ (top 10% of peer reviewers in 2007); The Lancet; PLOS Medicine; JAMA; New England Journal of Medicine; Canadian Medical Association Journal; JAMA Pediatrics; Canadian J Cardiology

Health Policy

Milbank Quarterly; Health Affairs; Health Policy; Health Services Research; Evaluation Review

Social Science

Demography; Population Studies; Social Compass; Social Science History; Sociological Focus; Journal of Health and Social Behavior; Population Research and Policy Review; Journal of Health and Social Behavior

Biostatistics

Journal of the Royal Statistical Society (A); Statistics in Medicine

Economics

B.E. Journal of Economics and Policy; Health Economics; Oxford Development Studies; Journal of Economic Issues; Applied Economics Letters; American Journal of Economics & Sociology

Grant Reviews

Panel Member

2018-2023	Scientific Officer, Canadian Institutes for Health Research (CIHR), Public, Community & Population Health Committee
2017-2018	Member, Canadian Institutes for Health Research (CIHR), Public, Community & Population Health Committee
2014-2016	Canadian Institutes for Health Research (CIHR), Doctoral Research Awards
2014	Canadian Cancer Society Research Institute (CCSRI) Career Development Awards in Prevention.
2013-2014	Canadian Institutes for Health Research (CIHR), Doctoral Research Awards
2010	Canadian Cancer Society (CCS)'s Prevention Initiative at the Canadian Cancer Society Research Institute (CCSRI).

Ad hoc reviews

2021	Robert Wood Johnson Foundation Interdisciplinary Research Leaders Competition
2019	CIHR Canada Research Chairs (Tier 1)
2019	Faculty of Medicine, Internal grant review (2)
2014	Competition Attracting Research Excellence (C.A.R.E), St. Mary's Hospital Center (SMHC) and Foundation.
2012	Research Institute of the McGill University Health Centre
2012	Keenan Research Centre of the Li Ka Shing Knowledge Institute, St. Michael's Hospital, Ontario
2012	The Netherlands Organisation for Health Research and Development (ZonMw)
2011	Research Institute of the McGill University Health Centre
2011	Innovational Research Incentives Scheme Veni 2011 MaGW, Netherlands Organisation for Scientific Research
2011	Faculty of Medicine, McGill University
2010	Faculty of Medicine, McGill University
2009	Economic and Social Research Council, UK

2008	Health Research Council of New Zealand, Health Inequalities Research Programme (HIRP)
2007	Michael Smith Foundation for Health Research, Canada

Administrative Responsibilities

Current

2015-present	Doctoral Program Director, Department of Epidemiology, Biostatistics & Occupational Health (starting January, 2015)
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Past

2013-2014	Doctoral Program Advisor, Department of Epidemiology, Biostatistics & Occupational Health
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Committees

International

2023-present	Member, Expert Review Group, <i>Health Inequality Monitoring Handbook</i> , World Health Organization
2017-present	Member, Working Group, <i>Health Equity Toolkit Assessment</i> , World Health Organization
2016	Expert Member, US National Institute for Minority Health and Health Disparities <i>Science Vision of Health Disparities Research Committee</i>
2009-2011	Indicators Sub-Group Chair, <i>Scientific Resource Group On Health Equity Analysis and Research</i> , World Health Organization
2008-2015	Technical Advisor, Pan American Health Organization, <i>Proyect CD-ROM Course Midiendo Desigualdades en Salud-Mediando Desigualdades em Saúde</i>
2008-2012	Technical Advisor, US National Cancer Institute, <i>HDCalc Statistical Software for Measuring and Monitoring Health Disparities</i>
2008-2010	Member, Expert Group Core, Socioeconomic Factors Expert Group, <i>Global Burden of Diseases, Injuries, and Risk Factors Study</i>
2004	Invited Participant—The Economic Costs of Cancer Health Disparities Think Tank, National Cancer Institute, Bethesda, MD USA.

National

2022-present	Steering Group Member, <i>Pan-Canadian Health Inequalities Reporting Initiative</i> , Public Health Agency of Canada
2019-2021	Working Group Member, <i>Health Inequalities Reporting Initiative</i> , Canadian Institute for Health Information
2007-2009	Consultant, Health Group, Canadian Household Panel Survey, Statistics Canada

University

2021-2022	Member, Working Group, SPGH Trials Innovation Platform
2020	Member, SPGH “Visioning” Committee
2017-2018	Co-chair of Centre on Population Dynamics weekly seminar series
2014-2015	Member (interim), Quebec Inter-University Centre for Social Statistics Management Committee

Departmental

2023	Member, Tenure-Track Faculty Recruitment Committee
2023	Examiner, PhD protocol defense (Doris Duran)
2014	Internal Member, PhD oral defense committee (Jill Korsiak)
2021	Chair, Tenure-Track Faculty Recruitment Committee
2021	Internal Member, PhD oral defense committee (Devin Abrahami)
2021	Internal Member, PhD oral defense committee (Joanne Kim)
2020	Internal Member, PhD oral defense committee (Tanya Murphy)
2019	Member, Tenure-Track Faculty Recruitment Committee
2018-present	Member, Departmental Tenure and Promotion Committee
2018	Examiner, PhD protocol defense (Oduro Oppong-Nkrumah)
2012	External Examiner, Master’s Degree Thesis (Marichelle Leclair)
2016	Member, Tenure-Track Faculty Recruitment Committee
2015	Internal Examiner, PhD oral defense committee (Liane Soller)
2014-present	Member, Departmental Epidemiology Program Committee
2014	Member, PhD oral defense committee (Joseph Tota)
2014	Examiner, PhD protocol defense (Hiroshi Mamiya)
2013	Internal Examiner, PhD protocol defense (Erika Braithwaite)
2013	Member, Ad-hoc committee on benchmarking for merit review
2013	Member, MScPH Program Committee
2013	Member, Tenure-Track Faculty Recruitment Committee

2012-2014	Member, Curriculum Committee
2013	Member, MScPh Admissions Committee
2012-present	Member, PhD Admissions Committee
2012	Member, Tenure-Track Faculty Recruitment Committee (joint appointment with Institute for Health and Social Policy)
2009-2016	Member, PhD Comprehensive Exam Committee
2012	External Examiner, Doctoral Degree Thesis Protocol (Hojoon Sohn)
2012	Internal Examiner, PhD Thesis (Aihua Liu)
2012	External Examiner, Master's Degree Thesis (Anurag Bhargava)
2012	External Examiner, Master's Degree Thesis (David Kaiser)
2011	External Examiner, Master's Degree Thesis (George Thanassoulis)
2011	External Examiner, Master's Degree Thesis (Helen Cerigo)

Professional Societies

- Society for Epidemiologic Research
- International Epidemiological Association
- American Public Health Association
- Delta Omega Honorary Society in Public Health
- Population Association of America
- International Union for the Scientific Study of Population

Other Professional and Scientific Contributions

Other McGill contributions

- 2023 Thesis Writing Workshop, EBOH
- 2022 Thesis Writing Workshop, EBOH
- 2021 Thesis Writing Workshop, EBOH
- 2021 Pro-Dean, Department of Economics (Jean-François Fournel)
- 2018 Pro-Dean, Department of Music (David Rafferty)
- 2017 Pro-Dean, Department of Civil Engineering (Mohammed Talukder)
- 2013 Pro-Dean, Department of English (Ian Whittington)

Reviews for promotion or tenure

- 2023 Drexel University
- 2018 Brown University
- 2015 University of California, Los Angeles

- 2012 Keenan Research Centre of the Li Ka Shing Knowledge Institute at St. Michael's

Reviews of protocols and theses

- 2022 PhD oral defense committee member, Erasmus Medical Centre (Erica Renhard)
- 2013 PhD protocol committee, Université de Montreal (Syed Ahsan Raza)
- 2012 External Examiner, Doctoral Degree Thesis, McMaster University (Hmwe Hmwe Kyuu)
- 2011 PhD protocol committee, Université de Montreal, (Carl-Etienne Juneau)

Conference, workshop and panel organization

2020	Co-organizer, Growing Up in Rural America: How Place Shapes Education, Health, Family, and Economic Outcomes. Russell Sage Foundation, March 26-27, 2020.
2019	Organizing committee, Atlantic Causal Conference Annual Meeting
2015	Session Chair, "Social Determinants of Health" Population Association of America Annual Meeting
2015	Session Chair, "Psychosocial Factors and Health" Population Association of America Annual Meeting
2014	Session Co-Chair, Concurrent Contributed Session (CCS), Society for Epidemiologic Research Annual Meeting, Seattle, WA
2014	Session Chair, "Health Inequalities: From Measurement to Policy" QICSS International Conference on Social Policy and Health Inequalities, Montreal QC
2014	Abstract reviewer, 2014 QICSS International Conference Social policy and health inequalities: An international perspective
2014	Abstract reviewer, 2014 Student Research Day, Department of Epidemiology, Biostatistics & Occupational Health, McGill University
2013	Poster Judge, Society for Epidemiologic Research Annual Meeting, Boston, MA
2013	Abstract reviewer, 2013 Student Research Day, Department of Epidemiology, Biostatistics & Occupational Health, McGill University
2012	Chair, Spotlight Session, Society for Epidemiologic Research Annual Meeting, Minneapolis, MN
2011	Co-chair, Educational Session "How Do We Measure Disparities and Assess Progress?" Fourth Annual American Association for Cancer Research Conference on The Science of Cancer Health Disparities
2011	Abstract reviewer, 2011 Canadian Society for Epidemiology and Biostatistics Annual Meeting

2011-present	Organizer and Faculty Lead, Social Epidemiology Journal Club, Department of Epidemiology, Biostatistics & Occupational Health, McGill University
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Media appearances (selected)

Interviews

- CBC The National, June 12, 2020
- CBC News Montreal, June 11, 2020
- The National Post, May 13, 2020
- The New York Times, November 26, 2019
- Journal du Quebec, May 30, 2019
- NPR, Hidden Brain, January 9, 2018
- STAT News, July 3, 2018
- Business News (India), August 7, 2017
- The Los Angeles Times, July 9, 2017
- The Washington Post, July 8, 2017
- The Economist, July 7, 2017
- Fortune Magazine, July 6, 2017
- The Washington Times, July 3, 2017
- PBS News Hour, April 30, 2017
- Reuters, April 18, 2017
- Vox, December 13, 2016
- The New York Times, June 1, 2016
- The New York Times, May 5, 2016
- KUT.org (Austin, TX), May 7, 2016
- The Economist, August 14, 2014
- Wisconsin Public Television, Here and Now, August 8, 2014
- Milwaukee Journal Sentinel, August 4, 2014
- The New York Times, December 18, 2013
- Chicago Tribune, November 19, 2013
- Reuters Health, November 19, 2013
- Anniston Star, October 6, 2013
- The New York Times, July 18, 2013
- US News and World Report, July 18, 2013
- Reuters Health, April 24, 2013
- Christian Science Monitor, June 12, 2012
- Los Angeles Times, June 8, 2012
- Houston Chronicle, June 7, 2012
- Atlanta Journal-Constitution, June 7, 2012
- Dallas Morning News, June 7, 2012

- Bloomberg BusinessWeek, Dec 9, 2010
- Bloomberg News, August 19, 2009
- Journal of the National Cancer Institute, May 20, 2009
- The New York Times, April 27, 2008
- Radio France Internationale, 2007
- Science Friday, National Public Radio, 2007
- A Closer Look, Kaiser Family Foundation, 2007
- The JAMA Report, 2007

Newspaper Coverage

New York Times, Washington Post, Forbes, Indian Express, Winnipeg Free Press, Los Angeles Times, Baltimore Sun, Boston Herald, Globe and Mail, Montreal Gazette, National Post, La Presse, Victoria Times-Colonist, McGill Reporter

Web Coverage

Scientific American, The Economist, CNN, CTV, Reuters, Voice of America, The Heart, People's Daily Online (China), Newsday, Reuters UK, Florida Sun-Sentinel, Jamaica Gleaner, Detroit News, Journal of the National Cancer Institute, BreastCancer.Net News, Fierce for Black Women, Futurity, Medical Daily, Medscape, Science Recorder,

Teaching

McGill

Postgraduate Courses

2020-present	Doctoral Seminar in Epidemiology, EPIB 706
2014	Guest Lecture on Social Determinants of Health, EPIB 602 (Introduction to Population Health), Department of Epidemiology, Biostatistics & Occupational Health, McGill University.
2013	Guest Lecturer (4 lectures), EPIB 604 (Epidemiologic Analysis), Department of Epidemiology, Biostatistics & Occupational Health, McGill University.
2019	Research Design for the Health Sciences, EPIB 707
2018-present	Impact Evaluation, PPHS 617 (with Arijit Nandi)
2015-2017	Methods in Social Epidemiology, EPIB 648 (with Jay Kaufman)
2013	Estimating the Causal Effect of Social Policies on Health (with A Nandi/J Kaufman/E Strumpf)
2013-2015	Intermediate Epidemiology, EPIB 603
2010-2011	Introduction to Population Health and Social Epidemiology, EPIB 670
2009-2012	Intermediate Epidemiology, EPIB 603 (with Jay Kaufman)

Postgraduate guest lectures

2023 (Apr)	Guest Lecturer, Bias Analysis, EPIB 705 (Advanced Methods in Epidemiology), Department of Epidemiology, Biostatistics & Occupational Health, McGill University.
2014 (Fall)	Guest Lecturer (2 lectures), EPIB 604 (Epidemiologic Analysis), Department of Epidemiology, Biostatistics & Occupational Health, McGill University.
2014	Guest Lecture on Social Determinants of Health, EPIB 602 (Introduction to Population Health), Department of Epidemiology, Biostatistics & Occupational Health, McGill University.
2013	Guest Lecturer (4 lectures), EPIB 604 (Epidemiologic Analysis), Department of Epidemiology, Biostatistics & Occupational Health, McGill University.
2013	Guest Lecture on Social Determinants of Health, EPIB 602 (Introduction to Population Health), Department of Epidemiology, Biostatistics & Occupational Health, McGill University.
2012	Guest Lecturer (5 lectures), EPIB 604 (Epidemiologic Analysis), Department of Epidemiology, Biostatistics & Occupational Health, McGill University.
2011	Guest Lecture on Social Determinants of Health, EPIB 602 (Introduction to Population Health), Department of Epidemiology, Biostatistics & Occupational Health, McGill University.
2011	Guest Lecturer (4 lectures), EPIB 604 (Epidemiologic Analysis), Department of Epidemiology, Biostatistics & Occupational Health, McGill University.
2010	Guest Lecture on Life Table Decomposition, EPIB 602 (Introduction to Population Health), Department of Epidemiology, Biostatistics & Occupational Health, McGill University.
2007	Guest Lecture on Life Tables, EPIB 602 (Introduction to Population Health), Department of Epidemiology, Biostatistics & Occupational Health, McGill University.
2006	Guest Lecture on Measuring Health Inequalities, EPIB 670 (Introduction to Population Health and Social Epidemiology)

Undergraduate

2011-2014	Physicianship 4—Medicine & Society: Bias in Medicine, INDS 406 (with Nicholas King and Meredith Young)
2007	Medicine and Society/Communication Plus, INDS 406 (co-taught with Pierre Pluye)

International

2021 (Oct)	Co-Instructor (4 lectures), <i>Ph.D. course in Advanced Social Epidemiology</i> . Institute of Public Health, University of Copenhagen, Denmark.
2021 (Nov)	Guest Lecturer (1 lecture), <i>CK050 : Principles of Public Health</i> . Erasmus Medical Centre, Rotterdam, The Netherlands.
2020 (Nov)	Guest Lecturer (1 lecture), <i>HS02c: Public health research: intervention development and evaluation</i> . Erasmus Medical Centre, Rotterdam, The Netherlands.
2019 (Nov)	<i>Masterclass: Introduction to Health Inequalities</i> . “Tackling Inequalities” Honours Programme for EUR Master Students. Erasmus University, Rotterdam, The Netherlands.
2019 (Nov)	Guest Lecturer (1 lecture), <i>HS02c: Public health research: intervention development and evaluation</i> . Erasmus Medical Centre, Rotterdam, The Netherlands.
2019 (Oct)	Co-Instructor (4 lectures), <i>Ph.D. course in Advanced Social Epidemiology</i> . Institute of Public Health, University of Copenhagen, Denmark.
2017 (Aug)	Co-Instructor (3 lectures), <i>Ph.D. course in Advanced Social Epidemiology</i> . Institute of Public Health, University of Copenhagen, Denmark.
2015 (Oct)	Co-Instructor (3 lectures), <i>Ph.D. course in Advanced Social Epidemiology</i> . Institute of Public Health, University of Copenhagen, Denmark.
2012	Co-Instructor (3 lectures), <i>Ph.D. course in Advanced Social Epidemiology</i> . Institute of Public Health, University of Copenhagen, Denmark.
2011	Co-Instructor (3 lectures), <i>Ph.D. course in Advanced Social Epidemiology: A focus on Methodology, Context and Lifecourse</i> . Institute of Public Health, University of Copenhagen, Denmark.
2009	Co-Instructor, <i>Social Determinants of Health—Principles and Methods</i> , Institut national de la santé et de la recherche médicale (INSERM), Paris, France.

Research Trainees Supervised

Postdoctoral fellows (7)

2020-2023	Erin Hetherington <i>CIHR Fellowship, \$120,000</i>
2016-2018	Corinne Riddell (co-supervised with Jay Kaufman)
2014-2016	Jonathan Huang (co-supervised with Nick King)
2014-2016	Zinzi Bailey (co-supervised with Nick King)
2016-2018	Farhan Majid (co-supervised with Arijit Nandi)

2013-2014	Mohammad Hajizadeh (co-supervised with Arijit Nandi) <i>CIHR Fellowship, \$73,333</i>
2011-2012	Kristin Voigt (co-supervised with Nick King)

Doctoral students (13)

2022-present	Siobhan Carroll (co-supervised with Jill Baumgartner)
2021-present	Wenlu Yuan (co-supervised with Jill Baumgartner)
2021-present	Peter Socha (co-supervised with Jennifer Hutcheon) <i>FRQS doctoral award, \$100,000 (2023-2025)</i> <i>McGill GREAT Travel award (2021, 2022)</i>
2021-present	Talia Sternbach (co-supervised with Jill Baumgartner) <i>CIHR doctoral award, \$105,000 (2023-2025)</i> <i>FRQS doctoral award (declined)</i>
2021-present	Imen Farhat (co-supervised with Dimitra Panagiotoglu) <i>FRQS doctoral award, \$84,000, (2021-2024, declined)</i> <i>CIHR doctoral award, \$105,000 (2022-2024)</i>
2020-present	Francisca Vargas Lopez (Erasmus MC)
2018-2023	Walid Al-Soneidar <i>FRQS doctoral award, \$49,000</i> <i>McGill Internal Studentship Award (\$10,000, declined)</i>
2017-present	Diego Capurro Fernandez <i>FRQS doctoral award, \$60,000</i>
2014-2019	Nichole Austin <i>Quebec Interuniversity Centre for Social Statistics scholarship (\$2,000)</i> <i>McGill Governor General's Gold Medal, 2019</i> <i>FRQS doctoral award, 2016-2018</i> <i>SER Dissertation Award, 2016</i>
2014-2017	Catherine Arseneault (co-supervised with Arijit Nandi) <i>Global Health Research Capacity Strengthening Doctoral Award, \$21,000</i> <i>FRQS doctoral award, \$60,000 (2015-2017)</i>
2013-2017	Robin Richardson (co-supervised with Arijit Nandi) <i>McGill GREAT Travel Award, 2013</i> <i>HD-IDEAS Matching Studentship, 2013</i> <i>Graduate Research Enhancement and Travel Award</i> <i>McGill University 2016 Dissemination Travel Fellowship</i> <i>Regroupement Strategique Sante Mondiale du RRSPQ</i> <i>Postdoctoral fellowship in Psychiatric Epidemiology, Columbia University</i>
2011-2015	Phongsack Manivong
2009-2014	Brittany McKinnon

Faculty of Medicine Internal Studentship, \$12,000, 2011-2012
Faculty of Medicine Internal Studentship, \$12,000, 2012-2013).
McGill GREAT Travel award (2010)
Faculty of Medicine International Travel Fund (2012)
HD-IDEAS Matching Studentship (2010, 2013)

Master's degree students (8)

2021-2022	Melia Alcantara (co-supervised with Seungmi Yang)
2020-2021	Peter Socha (co-supervised with Jennifer Hutcheon)
	<i>FRQS master's award, \$35,000, 2021-2022</i>
2018-2020	Hiba El-Haj (co-supervised with Shelley Clarke)
2019-2021	Talia Sternbach (co-supervised with Jill Baumgartner)
	<i>MITACS Globalink Research Award, \$6,000, 2019-2020</i>
2014-2015	Sarah Mah (co-supervised with Nancy Ross)
	<i>Institute for Health and Social Policy Fellowship, 2014-15</i>
2012-2014	Nichole Austin
	<i>McGill GREAT Travel Award (2014)</i>
2012-2014	Andrew Gray (co-supervised with Faisca Richer)
2009-2010	Jessica Adam-Smith

Thesis committee member (15)

Completed degree

2017-2020	Mabel Carabali (PhD, Epidemiology)
2016-2020	Eva Graham, (PhD, Epidemiology)
2014-2019	Stephanie Law (PhD, Epidemiology)
2012-2016	Robyn Lee (PhD, Epidemiology)
2012-2016	Hailey Banack (PhD, Epidemiology)
2011-2017	Renee Carter (PhD, Epidemiology)
2011-2016	Samantha Hajna (PhD, Epidemiology)
2014-2018	Taylor McLinden (PhD, Epidemiology)
2014-2017	Naghme Taramsari (PhD, Engineering)
2010-2012	Maria Koh (MSc, Epidemiology)
2008-2010	Candace Sirjoosingh (MSc, Epidemiology)

Current

2022-present	Sarah Windle (PhD, Epidemiology)
2021-present	Doris Duncan (PhD, Epidemiology)
2022-present	Martha Lee (PhD, Epidemiology)
2014-present	Miriam Kinkaid (PhD, Epidemiology)

Invited Lectures, Talks, Presentations

International

2023	<i>Measuring Health Equity: Beyond Description</i> . US National Academy of Sciences, Engineering, & Medicine, The Ecosystem of Health Equity Measures: A Workshop, June 21, 2023
2023	<i>A Quarter Century of Multilevel Models in Social Epidemiology: A Short Story in Three Acts</i> . Society for Epidemiologic Research Annual Meeting, June 14, 2023
2020	<i>Social Determinants of Health: Concepts and Methods Relevant to Air Pollution</i> . Health Effects Institute Annual Conference
2019	<i>Past and present rural-urban mortality transitions</i> . Russell Sage Foundation, Mar 15, 2019
2018	<i>Challenges, advantages, and limitations of quasi-experimental approaches to evaluate interventions on health inequalities</i> . Erasmus University, Rotterdam
2017	<i>Comments on 'Assessing the Distribution of Impacts in Global Benefit-Cost Analysis'</i> . Gates/Harvard Guidelines for Benefit-Cost Analysis Project Methods and Case Studies Workshop Harvard University, Nov 2, 2017
2017	<i>Introduction to Impact Evaluation in Social Epidemiology and Public Health</i> . Epi Tools Workshop Series, University of California San Francisco, 13 April 2017
2017	<i>Can we tax our way to equity in tobacco use?</i> Erasmus University, Health Economics Seminar, Rotterdam, Netherlands
2015	<i>Capitalizing on natural experiments to understand health impacts of policies</i> . Reimagining Health In Cities: New Directions in Urban Health Research, Drexel University, 10 Sep 2015
2013	<i>Strategies for Measuring and Interpreting Health Equity-Related Evaluation Data</i> . US Centers for Disease Control and Prevention, Community Transformation Grant Webinar, May 30, 2013
2012	<i>Trends in the Black-White Life Expectancy Gap</i> . 25th Annual Dr. Walter M. Booker, Sr. Memorial Symposium, American Medical Association Annual Meeting, Los Angeles, CA USA

2012	<i>Social Epidemiology: Questionable Answers and Answerable Questions.</i> Department of Epidemiology, University of Washington, Seattle, WA USA.
2011	<i>Questions and Answers in Social Epidemiology.</i> Department of Public Health, Copenhagen University, Copenhagen, Denmark.
2011	<i>Practical Tools for Identifying Social Determinants of Health and Measuring Health Inequalities.</i> 2011 CDC National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention Health Equity Symposium, Atlanta, GA USA.
2011	<i>Conceptual and methodological issues in measuring progress on health inequalities.</i> Academy Health Annual Meeting, Seattle, WA USA.
2011	<i>Measuring Social Inequalities in Health: Measurement and Value Judgments.</i> International Association for Dental Research Annual Meeting. San Deigo, CA, USA.
2011	<i>Changes in Socioeconomic Inequalities and Oral Health in Canada and the United States.</i> Australian Research Centre for Population Oral Health, Adelaide, Australia.
2010	<i>Methods for Assessing Disproportionality.</i> US Environmental Protection Agency Symposium on Strengthening Environmental Justice and Decision Making, Washington, DC.
2010	<i>Measuring Health Inequalities.</i> WHO Panel on Gender and Health Statistics, Washington, DC USA.
2009	<i>Measuring and Explaining Health Inequalities.</i> University of Copenhagen Workshop on Mediation and Interaction in Epidemiology, Copenhagen, Denmark.
2009	<i>Measuring and Monitoring Health Inequalities.</i> Danish National Institute of Public Health, University of Southern Denmark, Copenhagen, Denmark.
2009	<i>Global Inequalities in Tobacco Consumption.</i> University of Michigan Center for Social Epidemiology and Population Health, Ann Arbor, MI USA.
2009	<i>Measuring Health Inequalities.</i> EquiLAC II: Measurement of Healthcare Inequalities and Inequities in the Americas, Pan American Health Organization, Washington, DC USA.
2008	<i>Measuring and Monitoring Inequalities in Health.</i> Health Disparities Interest Group (HDIG) Seminar Series, US National Cancer Institute, Bethesda, MD USA.
2006	Invited Speaker—Health Disparities Research Methods Training Symposium, National Cancer Institute, Bethesda, MD USA.

National

2023	Invited Discussant “Causal Inference and Hierarchy of Evidence”. AI for Public Health Summer Institute, University of Toronto, July 21, 2023
2019	<i>Socioeconomic Inequalities in Health: From Causal Inference to Policies</i> , Canadian Society for Epidemiology & Biostatistics Annual Meeting, Ottawa (Keynote Address)
2013	<i>The Impact of Framing the Scale of Inequality on Judgements of Intervention Impacts</i> . Department of Community Health and Epidemiology, Dalhousie University, Halifax.
2012	<i>Concepts and Methods in Measuring Health Inequalities</i> Université Laval 26 Nov 2012
2011	<i>Social Epidemiology: Are the questions answerable and are the answers questionable?</i> Centre de recherche du Centre de Hospitalier de L’Université de Montreal, Montreal.
2008	<i>Understanding Health Inequalities in a Population Health Framework</i> . Queen’s University, Kingston.

Research

Research Activities

My research focuses on investigating how social and environmental factors impact health outcomes and health inequalities. My work is interdisciplinary, combining epidemiological methods with social science approaches to gain insights into the complex interactions between health and society. My research covers a wide variety of topics, but my major areas of focus are:

- (i) *Methods for measuring health inequalities*. Measuring and monitoring health inequalities are crucial activities for providing evidence on the impact of medical interventions and policies on vulnerable populations, and for testing the plausibility of etiologic factors that may influence social differences in health. My work takes a systematic approach to health inequality measurement and emphasizes the importance that extra-scientific value judgments play in interpreting evidence on the magnitude and trends of health inequalities.
- (ii) *Analysis of life expectancy trends*. Life expectancy is a fundamental and well-established measure of overall population health. I have made extensive use of demographic techniques for decomposing changes in life expectancy between social groups as a tool for generating evidence on the causes of health inequalities.
- (iii) *Experimental and quasi-experimental approaches to health inequalities*. I use randomized interventions and plausibly random changes in social and economic policies to estimate the causal effects of exposures on population health and health

inequalities. I have used econometric techniques such as difference-in-differences and instrumental variables to estimate the health effects of medical marijuana laws, mandatory seat belt laws, and the Great Recession in the USA, user-fees in sub-Saharan Africa, and tobacco policies in Canada.

Personal Support Awards

2018-2022	Endowed Professorship, <i>Impact of Health and Social Policy on Health Inequalities</i> . Erasmus University Medical Center. \$103,032
2013-2017	Chercheur-Boursier Junior 2 award, Fonds de recherche du Québec – Santé. \$241,008
2009-2013	Chercheur-Boursier Junior 1 award, Fonds de Recherche en Santé du Québec. \$219,764

Research Grants

Current

Impacts of cannabis decriminalization and legalization on cannabis and other substance use: a systematic review of global policy changes

Agency: Canadian Institutes for Health Research

Role: Co-Applicant (NPI Arijit Nandi)

Amount: CAD \$110,000

Duration: 2023-2025

PREgnancy outcomes during a PAndemic REsponse (PREPARE) Unlocking lockdown's silver lining

Agency: ZonMW (Dutch)

Role: Co-Applicant (NPI Jasper Been)

Amount: CAD \$293,606

Duration: 2022-2024

The impact of early-childhood education and care policies on children's cognitive and non-cognitive skills, health and well-being in the United States

Agency: Social Science and Humanities Research Council of Canada

Role: PI

Amount: CAD \$220,650

Duration: 2022-2025

Addressing the Wider Health Impacts of COVID-19

Agency: Canadian Institutes for Health Research

Role: Co-PI (NPI Arijit Nandi)

Amount: CAD \$423,000

Duration: 2022-2024

How do Household Energy Interventions Work?

Agency: Health Effects Institute

Role: NPI (with Jill Baumgartner)

Amount: CAD \$1,019,956

Duration: 2019-2024

Evaluating the impact of universal early childhood education policies on adolescent scholastic achievement, health, and well-being in high-income countries.

Agency: Social Science and Humanities Research Council of Canada

Role: Co-Investigator (PI: Arijit Nandi)

Amount: CAD \$300,000

Duration: 2019-2023

Air Pollution, Indoor Temperature, and Health Impacts of the Beijing Coal Ban and Heating Stove Replacement

Agency: Canadian Institutes for Health Research

Role: Co-PI (with Jill Baumgartner)

Amount: CAD \$952,454

Duration: 2018-2023

Short term benefits but long term harm? Assessing the consequences of antenatal corticosteroid administration for child neurodevelopment

Agency: Canadian Institutes for Health Research

Role: Co-PI (with Jennifer Hutcheon and Erin Strumpf)

Amount: CAD \$221,850

Duration: 2018-2023

Past**The CART PREG-Epi Study: Pandemic Reproductive health and health Equity: Guidance from Epidemiology to improve reproductive, perinatal, and maternal mental health and substance use care**

Agency: Canadian Institutes for Health Research

Role: Co-PI (NPI Wendy Norman)
Amount: CAD \$100,000
Duration: 2021-2022

Every maternal death counts: understanding driving safety in pregnant and post-partum women

Agency: Canadian Institutes for Health Research
Role: PI (with Jennifer Hutcheon)
Amount: CAD \$75,000
Duration: 2021-2022

Establishing a Relationship Between Philosophy and Epidemiological Research and Practice: Modelling Ethical Standards of Health Equity (MESHE)

Agency: Canadian Institutes for Health Research
Role: Co-applicant (NPI Maxwell Smith)
Amount: CAD \$20,000
Duration: 2019-2020

Improving maternal and newborn health in underserved areas in Tanzania

Agency: Department of Foreign Affairs, Trade, and Development
Role: Partner (Principal applicant: CARE Canada)
Amount: CAD \$12,000,000 total, CAD \$343,415 sub-award to McGill
Duration: 2017-2021

Identifying and Evaluating New Environmental Risk Factors for Cancer, Cardiovascular, and Neurological Diseases through Innovative Approaches to Population-Based Exposure Assessment

Agency: Canadian Institutes for Health Research
Role: Co-Investigator (NPI Scott Weichenthal)
Amount: CAD \$1,020,510
Duration: 2016-2021

Impact of affordable daycare on early life education in rural India

Agency: Spencer Foundation
Role: PI
Amount: CAD \$68,704
Duration: 2016-2017

Affordable daycare to empower Indian women

Agency: International Development Research Centre

Role: Co-PI (with Arijit Nandi)
Amount: CAD \$1,000,000
Duration: 2014-2018

Social, economic and policy influences on social inequalities in adolescent health: a cross-national comparative study in 43 countries (1986-2014)

Agency: Canadian Institutes for Health Research
Role: Co-Investigator (PI: Frank Elgar)
Amount: CAD \$311,596
Duration: 2014-2018

Maximizing population benefit and impact by applying population risk tools: A new direction for diabetes prevention in Canada

Agency: Canadian Institutes for Health Research
Role: Co-Investigator (PI: Laura Rosella)
Amount: CAD \$1,740,300
Duration: 2014-2015

From association to causation: Using natural experiments to evaluate the impact of population health interventions on health inequalities

Agency: Canadian Institutes for Health Research
Role: NPI (with Erin Strumpf)
Amount: CAD \$200,000
Duration: 2012-2016

Measuring global health

Agency: Canadian Institutes for Health Research
Role: Co-Investigator (PI: Kristin Voigt)
Amount: CAD \$44,011
Duration: 2012-2014

Reducing inequalities in the burden of human papillomavirus (HPV) related diseases in Canada through optimal vaccination and screening policies: A multi-disciplinary model-based approach

Agency: Canadian Institutes for Health Research
Role: Co-Investigator (PI: Marc Brisson)
Amount: CAD \$532,776
Duration: 2012-2015

Examining the Impact of Social Policies on Health Equity: How Policies Designed to Reduce Poverty and Gender Inequality Affect Morbidity and Mortality in Children and Women

Agency: Canadian Institutes for Health Research

Role: Co-Investigator (PI: Arijit Nandi)

Amount: CAD \$1,700,000

Duration: 2011-2016

Ethics, Social Determinants of Health, and Health Equity: Integrating Theory and Practice

Agency: Canadian Institutes for Health Research

Role: Co-Investigator (PIs: Nicholas B. King and Daniel Weinstock)

Amount: CAD \$1,740,300

Duration: 2011-2016

Measurement, Ethics, and Health Policy: Investigating the Role of Value Judgments in the Measurement and Evaluation of Health Inequalities

Agency: Canadian Institutes for Health Research

Role: Co-Investigator (PI: Nicholas King)

Amount: CAD \$190,000

Duration: 2010-2013

CIHR Team in Microsimulation Modeling of the Impact of Health Interventions and Policies

Agency: Canadian Institutes for Health Research

Role: Co-Investigator (PI: Jacek Kopec)

Amount: CAD \$1,448,630

Duration: 2009-2014

Social Inequality in Reproductive Health: The Changing Role of Education as a Determinant of Preterm Birth and Fetal Growth Over Time

Agency: Canadian Institutes for Health Research

Role: Co-Investigator (PI: Nathalie Auger)

Amount: CAD \$77,863

Duration: 2010-2011

Investigating the Role of Self-Report Bias in Health Inequalities Between and Within Countries

Agency: Canadian Institutes for Health Research

Role: PI

Amount: CAD \$181,308
Duration: 2009-2012

Strategic Training Initiative in Biostatistics

Agency: Canadian Institutes for Health Research
Role: Co-Investigator (PIs: Michal Abrahamowicz, Richard Cook, Jerald Lawless, Erica Moodie, Robert Platt)
Amount: CAD \$4,950
Duration: 2008-2009

Methods for Monitoring Social Disparities in Health

Agency: US National Institutes for Health
Role: PI
Amount: CAD \$28,000
Duration: 2007-2009

Methods for Monitoring Social Disparities in Health

Agency: Canadian Institutes for Health Research
Role: Co-PI (with Spencer Moore and John Lynch)
Amount: CAD \$40,000
Duration: 2007-2008

Publications

Articles in peer reviewed journals

*Indicates one of my trainees.

Harper S, Nandi A. Empirical Challenges in Defining Treatments and Time in the Evaluation of Gun Laws. *Epidemiology* 2023 (forthcoming).

*Al-Soneidar W, **Harper S**, Coutlée F, Gheit T, Tomassino M, Nicolau B. Prevalence of Alpha, Beta, and Gamma Human Papillomaviruses (HPV) in head and neck cancer patients and non-cancer controls and relation to behavioral factors. *Journal of Infectious Diseases* 2023 (forthcoming).

Flores Anato JL, Ma H, Hamilton MA, Xia Y, **Harper S**, Buckeridge D, Brisson M, Hillmer MP, Malikov KA, Kerem A, Beall R. Impact of a vaccine passport on first-dose COVID-19 vaccine coverage by age and area-level social determinants in the Canadian provinces of Québec and Ontario: an interrupted time series analysis. *CMAJ Open* 2023 (forthcoming).

Hetherington E, **Harper S**, Davidson R, Festo C, Lampkin N, Mtenga S, Teixeira C, Vincent I, Nandi A. Impact evaluation of the TAMANI project to improve maternal and child health in Tanzania. *J Epidemiol Community Health* 2023;77(6):410-6.

Socha P, **Harper S**, Hutcheon JA. Subgroup effects should be examined using both relative and absolute effect measures. *Australian and New Zealand Journal of Obstetrics and Gynaecology*; 2023 (in press)

Socha P, **Harper S**, Hutcheon JA. Methods of confounder selection in recent obstetrics and gynecology studies: A review. *American Journal of Obstetrics and Gynaecology*; 2023 (in press).

Hawkins SS, **Harper S**, Baum CF, Kaufman JS. Associations between State-Level Changes in Reproductive Health Services and Indicators of Severe Maternal Morbidity. *JAMA Pediatr* 2023;177(1):93-95.

Windle SB, *Socha P, Nazif-Munoz JI, **Harper S**, Nandi A. The Impact of Cannabis Decriminalization and Legalization on Road Safety Outcomes: A Systematic Review. *Am J Prev Med* 2022;63(6):1037-1052.

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Carabali M, **Harper S**, Lima Neto AS, Dos Santos De Sousa G, Caprara A, Restrepo BN, et al. Decomposition of socioeconomic inequalities in arboviral diseases in Brazil and Colombia (2007-2017). *Trans R Soc Trop Med Hyg* 2022;116(8):717-726.

Al-Soneidar WA, **Harper S**, Madathil SA, Schlecht NF, Nicolau B. Do cutaneous human papillomavirus genotypes affect head and neck cancer? Evidence and bias-correction from a case-control study. *Cancer Epidemiol* 2022;79.

- Davis LE, Webber C, Datta GD, Wiens A, **Harper S**, Hallet J, et al. Assessing research methodologies used to evaluate inequalities in end-of-life cancer care research: A scoping review protocol. *BMJ Open* 2022;12(7).
- Capurro DA, **Harper S**. Socioeconomic inequalities in health care utilization in Paraguay: Description of trends from 1999 to 2018. *J Health Serv Res Policy* 2022;27(3):180-189.
- Li X, Baumgartner J, Barrington-Leigh C, **Harper S**, Robinson B, Shen G, et al. Socioeconomic and Demographic Associations with Wintertime Air Pollution Exposures at Household, Community, and District Scales in Rural Beijing, China. *Environ Sci Technol* 2022;56(12):8308-8318.
- Clark S, **Harper S**, Weber B. Growing Up in Rural America. *RSF* 2022;8 (3) 1-47;
- Hutcheon JA, Strumpf EC, Liauw J, Skoll MA, *Socha P, Srouf M, Ting JY, **Harper S**. Antenatal corticosteroid administration and attention-deficit/hyperactivity disorder in childhood: a regression discontinuity study. *CMAJ* 2022;194(7):E235-E241.
- Hutcheon JA, **Harper S**. No, it is not too good to be true: Response by Hutcheon and Harper. *Paediatric and perinatal epidemiology* 2021;35(6): 781-782.
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- Hutcheon JA, **Harper S**. If it sounds too good to be true, it probably is: Conducting within-woman comparison studies with only one exposure observation per woman. *Paediatr Perinat Epidemiol.* 2020 Dec 17.
- Harper S**, *Riddell CA, King NB. Declining Life Expectancy in the United States: Missing the Trees for the Forest. *Annu Rev Public Health.* 2020 Dec 16.
- Hutcheon JA, **Harper S**, Liauw J, Skoll MA, Srouf M, Strumpf EC. Antenatal corticosteroid administration and early school age child development: A regression discontinuity study in British Columbia, Canada. *PLoS Med.* 2020 Dec 7;17(12):e1003435. .
- Carabali M, **Harper S**, Lima Neto AS, Dos Santos de Sousa G, Caprara A, Restrepo BN, Kaufman JS. Spatiotemporal distribution and socioeconomic disparities of dengue, chikungunya and Zika in two Latin American cities from 2007 to 2017. *Trop Med Int Health.* 2020 Nov 20. . Online ahead of print.

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Richardson RA, **Harper S**, Weichenthal S, Nandi A, Mishra V, Jha P. Extremes in water availability and suicide: Evidence from a nationally representative sample of rural Indian adults. *Environ Res*. 2020 Nov;190:109969. .

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Sreeramareddy CT, **Harper S**. Trends in educational and wealth inequalities in adult tobacco use in Nepal 2001-2016: secondary data analyses of four Demographic and Health Surveys. *BMJ Open*. 2019 Sep 6;9(9):e029712. .

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