

RICHARD JOHN COOK

CURRICULUM VITAE

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DEGREES

1993 Doctor of Philosophy (Statistics), University of Waterloo
 1989 Masters of Mathematics (Statistics), University of Waterloo
 1988 Bachelor of Science (Statistics), McMaster University

PRIMARY ACADEMIC APPOINTMENTS

2020 - Appointed [University Professor](#)
 University of Waterloo

2019 - 2024 [Mathematics Faculty Research Chair](#)
 Statistics and Actuarial Science, University of Waterloo

2012 - 2019 Tier I [Canada Research Chair](#) (renewal)
 Statistics and Actuarial Science, University of Waterloo

2005 - 2012 Tier I Canada Research Chair
 Statistics and Actuarial Science, University of Waterloo

2003 - Full Professor
 Statistics and Actuarial Science, University of Waterloo

1998 - 2003 Associate Professor (Tenured)
 Statistics and Actuarial Science, University of Waterloo

1996 - 1998 Assistant Professor
 Statistics and Actuarial Science, University of Waterloo

1995 - 1996 Assistant Professor (Joint Appointment)
 Statistics and Actuarial Science/Health Studies and Gerontology, University of Waterloo

1993 - 1995 Research Assistant Professor
 Statistics and Actuarial Science, University of Waterloo

1993 Post-Doctoral Fellow
 Statistics and Actuarial Science, University of Waterloo

1991 - 1992 Research Assistant
 Statistics and Actuarial Science, University of Waterloo

1989 - 1990 Research Associate
 Clinical Epidemiology and Biostatistics, McMaster University

1986 - 1988 Research Assistant
 Clinical Epidemiology and Biostatistics, McMaster University

ADDITIONAL APPOINTMENTS

ACADEMIC APPOINTMENTS

2018 - Affiliate Researcher
 Waterloo Artificial Intelligence Institute, University of Waterloo

2016 - Associate Faculty Investigator
 McMaster Centre for Transfusion Research, McMaster University

2012 -	Professor, Cross-Appointment School of Public Health and Health Systems, University of Waterloo
2017 - 2020	Professor, Part-time Appointment Department of Health Research, Methods and Impact, McMaster University
2017 - 2020	Graduate Faculty Member Department of Health Research, Methods and Impact, McMaster University
2010 - 2019	Affiliate Senior Scientist PROPEL Center for Population Health Impact, University of Waterloo
2016 - 2018	Associate Chair of Research Department of Statistics and Actuarial Science, University of Waterloo
2005 - 2016	Graduate Faculty Member Department of Clinical Epidemiology and Biostatistics, McMaster University
2005 - 2016	Professor, Part-time Appointment Department of Clinical Epidemiology and Biostatistics, McMaster University
2012 - 2014	Associate Chair Department of Statistics and Actuarial Science, University of Waterloo
2008 - 2012	Academic Advisor, Biostatistics Program Department of Statistics and Actuarial Science, University of Waterloo
2005 - 2012	Professor, Cross-Appointment Department of Health Studies and Gerontology, University of Waterloo
2000 - 2009	Affiliated Investigator Population Health Research Group, University of Waterloo
2000 - 2004	Associate Professor, Part-time Appointment Department of Clinical Epidemiology and Biostatistics, McMaster University
1996 - 2004	Associate Professor, Cross-Appointment Department of Health Studies and Gerontology, University of Waterloo
2001	Visiting Appointment Department of Clinical Epidemiology and Biostatistics, McMaster University
2001	Visiting Appointment Department of Statistics, Oxford University
1996	Visiting Appointment Department of Statistics and Actuarial Science, University of Hong Kong

EDITORIAL APPOINTMENTS

2022 -	Associate Editor, <i>Canadian Journal of Statistics</i>
2009 -	Associate Editor, <i>Statistics in Biosciences</i>
2016 - 2019	Associate Editor, <i>Canadian Journal of Statistics</i>
2013 - 2017	Associate Editor, <i>Biometrics</i>
2008 - 2017	Associate Editor, <i>Statistics in Medicine</i>
2013	Associate Editor, <i>SSC Volume for the International Year of Statistics</i>
1998 - 2012	Associate Editor, <i>Lifetime Data Analysis</i>
2011	Guest Editor (with Grace Y. Yi), <i>Canadian Journal of Statistics</i>
2010	Guest Editor (with Per Kragh Andersen), <i>Lifetime Data Analysis</i>
2001 - 2006	Associate Editor, <i>Canadian Journal of Statistics</i>
1998 - 1999	Managing Editor, <i>Biostat News</i> (a newsletter of the SSC)

HONOURS AND AWARDS

2023	Outstanding Performance Award, University of Waterloo
2021	Fellow, Royal Society of Canada

2020	Appointed University Professor ¹ , University of Waterloo
2020	Outstanding Performance Award, University of Waterloo
2019	Scandinavian Journal of Statistics Keynote Lecturer Nordic-Baltic Meeting of the International Biometrics Society
2017	SSC Gold Medalist , Statistical Society of Canada
2017	Award of Excellence in Graduate Supervision , University of Waterloo
2017	Distinguished Lecturer, Canadian Statistical Sciences Institute
2017	Outstanding Performance Award, University of Waterloo
2016	Armitage Lecturer, MRC Biostatistics Unit, Cambridge Institute for Public Health, Cambridge University, U.K.
2016	Yakovlev Lecturer, Department of Biostatistics and Computational Biology, University of Rochester, U.S.
2014	Outstanding Performance Award, University of Waterloo
2011	Outstanding Performance Award, University of Waterloo
2008	Fellow of the American Statistical Association
2008	Outstanding Performance Award, University of Waterloo
2007	Statistical Society of Canada - Centre de Recherches Mathématiques Prize
2005	Outstanding Performance Award, University of Waterloo
1999	Best Paper of the Year Award from the Canadian Journal of Statistics

PROFESSIONAL APPOINTMENTS

EXTERNAL ADVISORY BOARDS AND COMMITTEES

2023	Member, Data Safety Monitoring Committees TRICS IV: Transfusion Requirements in Younger Patients Undergoing Cardiac Surgery Study
2022	Member, Data Safety Monitoring Committees Albumen to enhance recovery after severe acute kidney injury
2020	Executive Committee, Convalescent Plasma Trial for COVID-19 Respiratory Illness (CONCOR-1)
2020	Steering Committee, Convalescent Plasma Trial for COVID-19 Respiratory Illness (CONCOR-1)
2020	Steering Committee, Sex Mis-matched Red Blood Cell Transfusion Trial
2020	Data Management Committee, Sex Mis-matched Red Blood Cell Transfusion Trial
2019 - 2022	Data Safety Monitoring Committee ELIVATE Trial, Novartis Pharmaceuticals Inc.
2019	Chair, Nominations Committee, Lifetime Data Science Section, American Statistical Association
2019	Past-Chair, Lifetime Data Science Section, American Statistical Association
2018	Chair, Lifetime Data Analysis Interest Group, American Statistical Association
2015 -	Member, The STRATOS Initiative: The Survival Analysis Group STRATOS: STREngthening Analytical Thinking for Observational Studies
2008 -	Scientific Advisory Committee, Center for Mathematical Medicine, Fields Institute
2002 - 2018	Advisor, Canadian Blood Services
2016 - 2019	Member, Committee for the Distinguished Lecture Series in Statistical Sciences Fields Institute
2012 - 2017	Member, Regional Advisory Board for Eastern North American Region International Biometrics Society
2015 - 2016	Member, Technical Expert Panel, University of Michigan - Kidney Epidemiology Cost Centre
2010 - 2012	NSERC Mathematics and Statistics Liaison Committee Natural Sciences and Engineering Research Council of Canada
2010 - 2012	Data Safety Monitoring Committee National Cancer Institute of Canada
2009 - 2012	Research Committee Statistical Society of Canada

¹The University of Waterloo recognizes exceptional scholarly achievement and international pre-eminence through the designation *University Professor*. Once appointed, a faculty member retains the designation until retirement.

2009 - 2013	Scientific Advisory Board, High Impact Clinical Trials Ontario Institute for Cancer Research
2002 - 2012	Disease Site Committee, National Cancer Institute of Canada
2009 - 2010	Chair, Research Committee Statistical Society of Canada
2008 - 2010	Chair, Biostatistical and Methods Innovation Group CANNeCTIN, Canadian Network and Centre for Trials Internationally
2008 - 2010	Member, Steering Committee CANNeCTIN, Canadian Network and Centre for Trials Internationally
2008 - 2010	Member, Operations Group CANNeCTIN, Canadian Network and Centre for Trials Internationally
2008	Advisor, Office of the Auditor General of Canada Management of Health Data in Canada
2006	Advisory Board, Office of the Auditor General of Canada Managing the Quality of Health Statistics
2005 - 2012	Global Advisory Board, Novartis Pharmaceuticals (Global)
2005 - 2006	Advisory Board, Amgen (U.S.)
2003	Advisory Board, Amgen (U.S.)
2002	Advisory Board, CERUS Corporation (U.S.)
1998 - 2002	Advisory Board, Novartis Pharmaceuticals (U.S.)
1999 - 2001	External Data Safety Monitoring Committees A study of Methotrexate in Lupus Erythematosus, McGill University
1995 - 1997	External Data Safety Monitoring Committees A study of Transfusion Requirements in Critical Care, University of Ottawa
1997 - 1998	Safety and Efficacy Review Committee Canadian HIV Trials Network
1996 - 1997	Advisory Board, Bayer Canada, Bayer Health Economics Group

INTERNATIONAL CONSULTING

2022 -	Fresenius Kabi Inc.
2021 -	National Cancer Institute, National Institutes of Health
2019 -	Human Systems Incorporated (Canada)
2015 -	Consultant, TerumoBCT (U.S.)
2014 -	Consultant, Novartis (U.S.)
2018	Consultant, Ampio Pharma
2017	Consultant, Novartis (Basel)
2017	Consultant, HBO ₂ Therapeutics (U.S.)
2014	Consultant, TerumoBCT (U.S.)
2013	Consultant, AMGEN (U.S.)
2013	Consultant, Bayer Inc. (Canada)
2013	Consultant, Novartis (U.S.)
2013	Consultant, Fuse Health (Canada)
2010	Consultant, Amgen (U.S.)
2007 - 2010	Consultant, GlaxoSmithKline (Canada)
2010	Consultant, Bayer (Europe)
2007 - 2009	Consultant, GlaxoSmithKline (U.S.)
2009	Consultant, CaridianBCT (U.S.)
2008	Consultant, Amgen (U.S.)
2008	Consultant, Centocor Research and Development Corporation (U.S.)
2007	Consultant, Centocor Research and Development Corporation (U.S.)
2005 - 2006	Consultant, Amgen (U.S.) Design of AMG 162

2004	Consultant, Pall Corporation (U.S.) Submission to Food and Drug Administration (F.D.A.)
2002	Consultant, Novartis Pharmaceuticals (U.S.) Submission to Food and Drug Administration (F.D.A.)
2002	Consultant, Novartis Pharmaceuticals (U.S.) Submission to European Medical Evaluation Agency (E.M.E.A.)
2002	Consultant, CERUS Corporation (U.S.) Methodologic Issues in Transfusion Medicine Trials

PROFESSIONAL LEADERSHIP

EXTERNAL ACTIVITY

2022 -	Member, Board of Directors, Canadian Statistical Sciences Institute
2022 -	Member, Governance and Board Nominating Committee, Canadian Statistical Sciences Institute
2020 -	STEM Cluster for Global Resilience, Balsillie School of International Affairs
2013 - 2022	International Society for Clinical Biostatistics, Student Paper Award Committee
2017 - 2018	Chair, Distinguished Lecture Series in Statistical Sciences, Fields Institute/CANSSI
2015 - 2018	Scientific Review Panel, Atlantic Association on Research in Mathematical Sciences (AARMS)
2014 - 2015	ENAR Biometrics Meeting, Student Paper Award Committee
2011	Scientific Committee, Semester in Statistics at the Centre de Recherches Mathematiques
2008	Reviewer, United States Department of Education
2007 - 2010	CRM-SSC Award Committee, Statistical Society of Canada
2007 - 2011	Research Committee, Statistical Society of Canada
1998 - 1999	Past-President, Biostatistics Section, Statistical Society of Canada
1997 - 1998	President, Biostatistics Section, Statistical Society of Canada
1996 - 1997	President-Elect, Biostatistics Section, Statistical Society of Canada
1996 - 1999	Member of Executive for Biostatistics Section, Statistical Society of Canada
1998 - 1999	Member of Publications Committee, Statistical Society of Canada
1998 - 1999	Member of Elections Committee, Statistical Society of Canada
1999 - 2003	SSC Representative, Statistical Society of Canada

INTERNAL ACTIVITY

2022-	Panel Member, Graham Trust Seed Fund Program, University of Waterloo
2022-2023	Appointments Committee, Statistics and Actuarial Science
2022-2023	Performance Review Committee, Statistics and Actuarial Science
2020-	Internal Review Committee for Canada Research Chair Nominations, University of Waterloo
2021-2022	Tier I CRC Appointment Committee, Statistics and Actuarial Science
2021-2022	Tier II CRC Appointments Committee, Statistics and Actuarial Science
2021-2022	Ad Hoc Committee, Distinguished Post-Doctoral Fellow Program, Statistics and Actuarial Science
2020-2022	Tenure and Promotions Committee, Statistics and Actuarial Science
2019-2021	Faculty Representative, University of Waterloo Health Initiatives Task Force
2018-2021	Advisory Committee on Graduate Scholarships and Awards, University of Waterloo
2018-2019	Waterloo Awards Committee, University of Waterloo
2018	Workshop Lead on Graduate Student Supervision, Centre for Teaching Excellence, University of Waterloo
2016-2018	Performance Review Committee, Statistics and Actuarial Science
2016-2018	Appointments Committee, Statistics and Actuarial Science
2013-2018	Research Advisory Council, Faculty of Mathematics
2017	Work Environments Review Committee for Canada Research Chairs, University of Waterloo
2017	Search Committee, Research Development Officer, Faculty of Mathematics, University of Waterloo
2017	Chair Selection Committee, Department of Statistics and Actuarial Science
2016-2017	Chair, BMath Biostatistics Program Committee, Department of Statistics and Actuarial Science
2013-2016	Board of Directors, Propel Center for Population Health Impact
2014-2015	Dean Selection Committee, Faculty of Mathematics
2014	UW NSERC Research Incentive Fund Program, Office of Research
2014	Director Selection Committee, Canadian Statistical Sciences Institute

2013-2014	Search Committee for Chair, Department of Statistics and Actuarial Science
2013-2014	Search Committee for Director, UW School of Public Health and Health Systems
2013-2014	Performance Review Committee, Department of Statistics and Actuarial Science
2012-2014	Tenure and Promotions Committee, Department of Statistics and Actuarial Science
2012-2014	UW Committee for Catalyst Funding, Centre of Excellence in Chronic Disease Prevention
2012-2013	UW Steering Committee for a Centre of Excellence in Chronic Disease Prevention
2012	UW Planning Committee for a Centre of Excellence in Chronic Disease Prevention
2012-2013	Graduate Operations Committee, Department of Statistics and Actuarial Science
2012-2013	Appointments Committee, Department of Statistics and Actuarial Science
2012-2013	Chair, Research and Awards Committee, Department of Statistics and Actuarial Science
2012-2013	Chair, Web Committee, Department of Statistics and Actuarial Science
2011-2012	Chair Selection Committee, Department of Statistics and Actuarial Science
2011-2012	Hiring Committee, Department of Statistics and Actuarial Science
2009-2011	Building Committee, Department of Statistics and Actuarial Science
2010-2011	Hiring Procedure Committee (ad hoc), Department of Statistics and Actuarial Science
2009 - 2012	Appointments Committee, Department of Statistics and Actuarial Science
2009 - 2012	Graduate Operations Committee, Department of Statistics and Actuarial Science
2009 - 2012	Tenure and Promotions Committee, Department of Statistics and Actuarial Science
2008	Chair of Thesis Examination, Faculty of Engineering
2007	Chair of Thesis Examination, Applied Health Sciences
2006-2007	Elected Member of Nominating Committee for Department Chair, University of Waterloo
2006-	Member of the Fields Institute Corporation, University of Waterloo
2004 - 2009	Appointments Committee, Department of Statistics and Actuarial Science
2004 -	Graduate Studies Operation Committee, Department of Statistics and Actuarial Science
2003 -	Waterloo Committee for the Fields Institute, University of Waterloo
2003	Search Committee, Chair in Health Informatics, University of Waterloo
1997 - 1999	Appointments Committee, Department of Statistics and Actuarial Science
1998 - 2000	Graduate Operations Committee
1998 - 1999	Graduate Student Recruitment
1999 - 2000	Faculty Student Appeals Committee
2003 - 2004	Research Committee, Department of Statistics and Actuarial Science
1995 - 1998	Research Committee, Department of Statistics and Actuarial Science
2003 - 2004	Chair, Ph.D. Comprehensive Examining Committee Department of Statistics and Actuarial Science
1996 - 1998	Ph.D. Comprehensive Examining Committee Department of Statistics and Actuarial Science
2001 - 2002	Co-Chair, Statistics and Actuarial Science Seminar Series
1994 - 1995	Chair, Statistics and Actuarial Science Seminar Series
1993 - 1994	Chair, Biostatistics Seminar Series

ORGANIZATION OF SCIENTIFIC MEETINGS

CONFERENCES AND WORKSHOPS

Organizer and Chair, David Sprott Distinguished Lecture, University of Waterloo, Waterloo, Ontario, September 22, 2022.

Scientific Program Committee, 43rd Annual Meeting of the International Society for Clinical Biostatistics, Newcastle, U.K., August 21–25, 2022.

Chair, Scientific Program Committee, Biostatistics : Foundations and the Era of Data Science, University of Waterloo, Waterloo, Ontario, April 28–29 2022.

Chair, Scientific Program Committee, Biostatistics : Foundations and the Era of Data Science, University of Waterloo, Waterloo, Ontario, April 30–May 1, 2020. (Conference cancelled due to COVID19 pandemic)

Co-Chair (with Jianwen Cai, UNC), Scientific Program Committee, Lifetime Data Science: Foundations and Frontiers, Pittsburgh, Pennsylvania, May 29–31, 2019.

Program Committee, Next Stages Toward a Comprehensive, Integrated Framework for Advanced Statistical Analyses of Observational Studies, STRATOS Initiative, Banff International Research Station, Banff, Alberta, June 2–7, 2018.

Program Committee, Data science, precision medicine and risk analysis with lifetime data University of Connecticut, May 25–27, 2017

Co-Chair (with Greg Pond), Distinguished Lecture for the Biostatistics Training Initiative: Speaker Dr. Jeremy Taylor. Ontario Institute for Cancer Research, MaRS Building, Toronto, Ontario, November 4, 2016.

Co-Chair (with Greg Pond), Distinguished Lecture for the Biostatistics Training Initiative: Speaker Dr. Stephen George. Ontario Institute for Cancer Research, MaRS Building, Toronto, Ontario, November 4, 2016.

Co-Chair (with Greg Pond), Distinguished Lecture for the Biostatistics Training Initiative: Speaker Dr. Giovanni Parmigiani, Ontario Institute for Cancer Research, MaRS Building, Toronto, Ontario, November 4, 2016.

Co-Chair (with Greg Pond), Distinguished Lecture for the Biostatistics Training Initiative: Speaker Dr. Marc Buyse, Ontario Institute for Cancer Research, MaRS Building, Toronto, Ontario, November 5, 2015.

Co-organizer (with Lemieux C and Chenouri S) and Chair for Distinguished Lecture by Jerome Friedman, University of Waterloo, September, 2013.

Discussion Leader (with Elliott S), Workshop on Bilateral Collaborations between the University of Waterloo and Shantou University Medical College, School of Public Health and Health Systems, University of Waterloo, September 17, 2012.

Co-Chair (with Cotton C), Organizing Committee. Workshop on Computational Methods for High Dimensional Data (Chernoui S and Ghodsi A). Department of Statistics and Actuarial Science, University of Waterloo, April 26, 2012.

Scientific Committee. Semester in Statistics at the Centre de Recherches Mathématiques, 2011.

Member, Program Committee (Wu C (Chair), Cook RJ, Marriott P, Matthews DE, Yi G). Foundations and Frontiers in Statistics: A Conference in Celebration of the Contributions of Mary Thompson. University of Waterloo, Waterloo, Ontario, October 28–29, 2011.

Co-Chair (Cook RJ and Lawless JF). Survival and Event History Analysis Workshop. Centre de Recherches Mathématiques, May 16 – 19, 2011.

Member, Program Committee (Cook RJ, Platt R, Thabane L (Co-Chair), Wells GA (Co-Chair)) CANNeCTIN Cutting Edge Symposium on Advanced Biostatistics and Methodological Issues in Clinical Trials. Population Health Research Institute, McMaster University, Hamilton, Ontario, April 28–29, 2011.

Chair, Program Committee (Brown KS, Cook RJ, McLeish DL, Struthers C, Yi GY). Statistical Methods and Life History Analysis: A Conference in Celebration of the Contributions of Jack Kalbfleisch and Jerry Lawless to the Statistical Sciences. University of Waterloo, Waterloo, Ontario, May 20–21, 2010.

Co-Chair (Cook RJ and Stolee P). Waterloo Workshop on Methodological Challenges in Health Research. University of Waterloo, Waterloo, Ontario, May 8, 2008.

Member, Program Committee (Abraham B, Cook RJ, Lawless JF (Chair), Matthews DE, Panjer H, Thompson ME). 40th Anniversary Conference on Statistics, University of Waterloo, Waterloo, Ontario, May, 2007.

Chair, Program Committee (Cook RJ, Lou W, Song P, Stafford J). Workshop on Methodological Challenges in Public Health Research. University of Toronto, Toronto, Ontario, September 29–30, 2006.

Member, Program Committee (Song P (Chair), Abrahamowicz M, Cook RJ, Gustafson P, Wang L). Workshop on Methods for Longitudinal Data Analysis. Sponsored by The National Program for Complex Data Structures (NPCDS) and the Field's Institute, Toronto, Ontario, October 12, 2005.

Co-Chair (Cook RJ and McLeish DL). Workshop on Missing Data, Field's Institute, Toronto, Ontario, August 5–6, 2004.

Co-Chair (RJ Cook and JF Lawless). Workshop on Event History Analysis. Centre de Recherches Mathématiques, Université de Montréal, Montréal, Ontario, May 25–28, 1998.

Chair and Organizer. Biostatistics Workshop for The Annual Meeting of Statistical Society of Canada. *"Counting Processes, Survival Analysis and Correlate Event Time Data"*. Speakers: Tom Fleming, Dave Harrington and Terry Therneau. Sherbrooke, Quebec, May 31, 1998.

OTHER PROGRAM ACTIVITY

Chair, Contributed Speaker Session on "Survival Analysis", International Society for Clinical Biostatistics (ISCB) 41 Kraków 2020 Virtual Conference, Kraków, Poland, August 23–27, 2020.

Chair and Organizer of Invited Speaker Session, Founders Session on Current Topics in Lifetime Data Analysis. Lifetime Data Science: Foundations and Frontiers. University of Pittsburgh, May 29–31, 2019.

Chair and Organizer of Invited Speaker Session, Analysis of Chronic Disease Processes Under Intermittent Observation. Lifetime Data Science: Foundations and Frontiers. University of Pittsburgh, May 29–31, 2019.

Chair and Organizer of Invited Speaker Session, Causal Inference for Lifetime Data Analysis. Lifetime Data Science, Precision Medicine and Risk Analysis with Lifetime Data University of Connecticut, May 25–27, 2017.

Member of Judging Panel for Student Presentation Competition, 2014 Annual Meeting of the Statistical Society of Canada, Toronto, Ontario, May 25–28, 2014.

Member of Judging Panel for Poster Competition, Biometrics Meeting, Eastern North American Region Baltimore, Maryland, March 16–19, 2014.

Discussion Leader and Co-Chair (with Susan Elliott), Collaborative opportunities for esophageal cancer between China and Canada, Workshop on Bilateral Collaborations Between the University of Waterloo and Shantou University Medical College. Waterloo, Ontario, September 17, 2012.

Chair, Causal inference. International Society of Clinical Biostatistics, Ottawa, Ontario, August 21–25, 2011.

Chair and Organizer of Invited Session, Statistical methods for life history analysis. Meeting of the Statistical Society of Canada, Quebec City, Quebec, May 23–26, 2010.

Chair and Organizer of Topic Contributed Session, Statistical Methods for Public Health, Sponsored by the National Institute for Complex Data Structures, Meeting of the Statistical Society of Canada, Vancouver, British Columbia, May, 2009.

Chair and Organizer of Topic Contributed Session, Statistical Challenges in Clinical Research, CANNeCTIN Research Program, Meeting of the Statistical Society of Canada, Vancouver, British Columbia, May, 2009.

Chair and Organizer of Invited Session, Implications of Selection and Observation Schemes on the Analysis of Life History Processes. Meeting of the Statistical Society of Canada, Vancouver, British Columbia, May, 2009.

Co-organizer (with Stefan Steiner), Statistical Process Control Methods in Health Care, Meeting of the Statistical Society of Canada, Ottawa, Ontario, May, 2008.

Chair, Session on *Joint Longitudinal and Survival Models*. International Biometrics Conference, Montreal, Quebec, July, 2006.

Chair and Organizer, *Session on Recent Advances in Survival Analysis*. Meeting of the Statistical Society of Canada, Saskatoon, Saskatchewan, May, 2005.

Program Committee, Joint Statistical Meetings, San Francisco, California, 2003.

Chair and Organizer, Session on *Robust Methods*, Joint Statistical Meetings, San Francisco, California, 2003.

Program Committee, Joint Statistical Meetings, New York, New York, 2002.

Organizer, Roundtable Discussions, Joint Statistical Meetings, 2002, New York, New York, 2002.

Program Chair, Invited Paper Sessions on Biostatistics for The Annual Meeting of Statistical Society of Canada, Sherbrooke, Quebec, May 31 – June 3, 1998.

Chair and Organizer, Session on *Event History Methods for Randomized Controlled Trials*, Meeting of Statistical Society of Canada, Fredericton, New Brunswick, June, 1997.

Chair of session on "*Clinical Research*" at the WNAR Biometrics Meeting in Seattle Washington, June 29, 1999.

Chair of session on "*Advances in Biostatistics*" at the Joint Statistical Meetings, Orlando, Florida, August, 1995.

Chair of session on "*Survival Analysis/Longitudinal Studies*" at the International Biometrics Conference in Hamilton, Ontario, August, 1994.

GRANT REVIEWING ACTIVITY

COMMITTEES FOR NATIONAL GRANTING AGENCIES

2021 - 2023	Scientific Review Panel, Institute for Public and Population Health Canadian Institutes of Health Research
2019 - 2020	Scientific Review Panel, Institute for Public and Population Health Canadian Institutes of Health Research
2015 - 2017	Scientific Review Panel Atlantic Association for Research in the Mathematical Sciences
2010 - 2013	NSERC Mathematics and Statistics Liaison Committee Natural Sciences and Engineering Research Council of Canada
2010	Member, Institute of Education Sciences

	United States Department of Education
2008 - 2010	Member, Early Researcher Awards Ministry of Research and Innovation
2006 - 2008	Member of Michael Smith Foundation for Health Research (MSFHR) Population Health Committee
2006 - 2007	Member of Natural Sciences and Engineering Research Council (NSERC) Collaborative Health Research Program
2006	Guest Member of Canadian Institutes for Health Research (CIHR) Clinical Trials Panel
2005 -	College of Reviewers, Canada Research Chair Program
2002 - 2004	Member of Canada Institutes for Health Research (CIHR) Clinical Trials Panel
2003 - 2004	Member of Canada Institutes for Health Research (CIHR) Advancing Theories, Frameworks, Methods and Measurement: Panel-B
2001	Member of Medical Research Council (MRC) of Canada Gene-Environment Interaction Panel
1996 - 2001	Member of Medical Research Council (MRC) of Canada University-Industry Panel
2000	Guest Member of Medical Research Council (MRC) of Canada Clinical Trials Panel

OTHER GRANT REVIEWING ACTIVITIES

2022	Internal Grant Reviewer for the Department of Applied Mathematics, The Hong Kong Polytechnic University
2019	Reviewer for the Natural Sciences and Engineering Research Council of Canada
2015	Reviewer for the Canadian Research Chairs Program
2012	Reviewer for the Research Council of Norway
2008	Reviewer for the Israeli Science Foundation
2012	Reviewer for the Canadian Research Chairs Program
2011	Grant reviewer for the National Science Foundation, Norway
2011	Reviewer, National Institutes for Health Research (U.K.)
2009	Graduate Program Reviewer, Ontario Council on Graduate Studies
2008	Reviewer for the Israeli Science Foundation
2006	Reviewer for the Canadian Research Chairs Program
2006	Reviewer for the Canadian Foundation for Innovation
2005	Grant reviewer for the Multiple Sclerosis Scientific Research Foundation of Canada
1996 - 2000	Grant reviewer for the Medical Research Council (MRC) of Canada
1997 - 2007	Grant reviewer for the Natural Sciences and Engineering Research Council (NSERC) of Canada
1998	Standing Committee on Science and Research Medical Research Council of Canada
2001	Internal (U.W.) reviewer for Canadian Foundation for Innovation (CFI) applications
1994	External reviewer for Health Protection Branch, Laboratory Centre for Disease Control, Ottawa

OTHER REVIEWING ACTIVITY

NATIONAL ORGANIZATIONS

2002 - 2009	Program Committee, National Program for Complex Data Structures
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PROGRAM REVIEW

2014	Program Review Committee Biostatistics Branch of the National Cancer Institutes Intramural Program National Institutes of Health, Bethesda, Maryland, U.S.A.
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- 2012 Program Review Committee
Division of Epidemiology, Statistics, and Prevention Research, National Institutes of Health
National Institutes of Health, Bethesda, Maryland, U.S.A.
- 2010 Program Review Committee
Biostatistics Branch of the National Cancer Institutes Intramural Program
National Institutes of Health, Bethesda, Maryland, U.S.A.
- 2006 Program Review Committee
Biostatistics Branch of the National Cancer Institutes Intramural Program
National Institutes of Health, Bethesda, Maryland, U.S.A.
- 2003 Biostatistics Program Review,
Father Sean O'Sullivan Research Centre,
St. Joseph's Hospital, McMaster University, Hamilton, Ontario.

REVIEWS FOR APPOINTMENT/PROMOTION/TENURE

- 2023 School of Mathematical Sciences, Tel Aviv University
- 2022 Department of Biostatistics, Vanderbilt University Medical Center
- 2022 School of Mathematics and Statistics, The University of Melbourne
- 2022 Department of Mathematics and Statistics, Victoria University
- 2022 Faculty of Health Science, McMaster University
- 2021 Biostatistics Branch, Division of Cancer Epidemiology and Genetics, NCI, NIH
- 2021 Department of Biostatistics, University of Wisconsin
- 2021 Southern University of Science and Technology, Shenzhen, Guangdong, China
- 2020 University of Missouri (Distinguished Professor)
- 2020 University of Toronto, (Canada Research Chair)
- 2020 George Washington University (Appointment as Full Professor with tenure)
- 2020 George Mason University (Promotion to Full Professor)
- 2020 University of Michigan (Appointment as Full Professor)
- 2020 Harvard University (Promotion to Full Professor)
- 2020 University of Delaware (Appointment as Full Professor)
- 2019 George Mason University (Promotion to Full Professor)
- 2019 University of Michigan (Promotion to Associate Professor)
- 2019 University of Pennsylvania (Appointment as Full Professor)
- 2019 University of Pennsylvania (Promotion to Full Professor)
- 2019 University of Pittsburgh (Tenure and Promotion to Associate Professor)
- 2018 University of Hong Kong (Promotion to Full Professor)
- 2018 College of Global Public Health, New York University
- 2018 Department of Mathematics and Statistics, Lancaster University
- 2017 Department of Statistics, University of Missouri-Columbia
- 2017 Department of Preventive Medicine, Northwestern University
- 2017 Department of Preventive Medicine, Northwestern University
- 2016 Biostatistics Branch, National Cancer Institute, N.I.H.
- 2015 University of Texas MD Anderson Cancer Center, Houston, Texas
- 2015 Albert Einstein College of Medicine, Yeshiva University, New York
- 2015 Dalhousie University (Promotion to Full Professor)
- 2014 University of Hong Kong (Promotion to Full Professor)
- 2014 Biostatistics Branch, NCI, Bethesda, MD
- 2013 Carleton University (Promotion to Full Professor)
- 2013 Northwestern University, Chicago, Illinois (Tenure)
- 2013 University of Wisconsin - Madison, Madison, Wisconsin (Tenure)
- 2013 University of Rochester Medical Center, University of Rochester, Rochester, New York (Tenure)
- 2012 Albert Einstein College of Medicine, Yeshiva University, New York
- 2011 York University
- 2011 Harvard University
- 2010 University of Michigan
- 2010 Biostatistics Branch, NCI, Bethesda, MD

2009 Albert Einstein College of Medicine, Yeshiva University, New York
 2008 University of British Columbia
 2008 University of Hong Kong
 2007 University of Hong Kong
 2007 University of Manitoba
 2006 Professional letter of support for application to the U.S. Department of Justice
 2005 Albert Einstein College of Medicine, Yeshiva University, New York
 2005 University of Windsor
 2004 University of British Columbia
 2004 University of British Columbia
 2004 University of Michigan
 2003 Albert Einstein College of Medicine, Yeshiva University, New York
 2003 Queen's University
 2001 Cambridge University (U.K.)
 2001 Queen's University
 2001 University of Toronto
 1999 MD Anderson Cancer Centre

REVIEWS AND NOMINATIONS FOR INDIVIDUAL AWARDS

2022 COPSS Emerging Leader Award
 2022 Fellow of the American Statistical Association
 2022 Fellow of Royal Society of Canada
 2021 Nomination for the College of the Royal Society of Canada (jointly with Matthias Schonlau)
 2019 McGill University, Montreal (ASA Fellowship)
 2019 University of British Columbia, SSC Gold Medal
 2018 Washington University, St. Louis (ASA Fellowship)
 2017 Northwestern University (ASA Fellowship)
 2017 MD Andersen Cancer Center, University of Texas (ASA Fellowship)
 2015 Albert Einstein College of Medicine, Yeshiva University, New York (ASA Fellowship)
 2013 Nomination for Honorary Member of University of Waterloo
 2013 Albert Einstein College of Medicine, Yeshiva University, New York (ASA Fellowship)
 2013 Nomination for Honorary Member of Statistical Society of Canada
 2013 Nomination for Distinguished Service Award by Statistical Society of Canada
 2012 McGill University (CIHR)
 2011 McMaster University (CIHR)
 2011 McGill University (University Chair)
 2010 University of Waterloo (CRM Prize)
 2009 National Institutes for Health
 2009 University of Missouri
 2008 University of Missouri
 2006 Fellow of Royal Society of Canada
 2005 Simon Fraser University (University Professorship)
 2005 University of Waterloo (Early Researcher Award)
 2005 University of Missouri (ASA Fellowship)
 2005 Harvard School of Public Health (Career Award)
 2004 Harvard School of Public Health (ASA Fellowship)

REVIEWS/REFEREE FOR BOOK PROPOSAL

2020 Reviewer, The Statistical Analysis of Multivariate Failure Time Data: A Marginal Modeling Approach (CRC Press)
 2018 Reviewer for book proposal: Multi-State Survival Data: Rates, Risks, and Pseudo-Values (CRC Press)
 2005 Reviewer for book proposal (A) - Springer-Verlag
 2005 Reviewer for book proposal (B) - Springer-Verlag
 2000 Referee for book proposal - SIAM Publishers Inc.

SUPERVISORY EXPERIENCE

MENTOR FOR TRAINING IN CLINICAL TRIAL METHODOLOGY

2006 - 2012 Lora Giangregorio, Department of Kinesiology, University of Waterloo
(Mentoring with Alexandra Papaioannou (McMaster) and Lehane Thabane (McMaster))

POST-DOCTORAL FELLOWS

2022 Fangya Mao
Department of Statistics and Actuarial Science
The design and analysis of two-phase studies involving
response-dependent sub-sampling with complex outcomes
Current Position: Post-Doctoral Research Fellow, NCI Biostatistics Branch, NIH

2019 - 2022 Tugba Akkaya-Hocagil (co-supervised with Louise Ryan)
Department of Statistics and Actuarial Science
Dose and pattern of adverse effects in the diagnosis of fetal alcohol
spectrum disorders: a secondary analysis of data from 5 cohorts
Current Position: Senior Research Associate, University of Waterloo/
Assistant Professor, Ankara University, Turkey

2015 Liqun Diao, Department of Statistics and Actuarial Science
Multivariate life history data
Current Position: Assistant Professor, University of Waterloo

2013 - 2014 Jiwei Zhao, Department of Statistics and Actuarial Science
Multiple imputation involving derived variables
Current Position: Assistant Professor, University of Wisconsin-Madison

2013 Audrey Boruvka, Department of Statistics and Actuarial Science
Semiparametric inference for the illness-death model under dual censoring
Current Position: Statistical Scientist, Roche Canada

2013 Michael McIsaac, Department of Statistics and Actuarial Science
Two-phase sampling and life history analysis
Current Position: Associate Professor, University of Prince Edward Island

2007 - 2009 Xu (Sunny) Wang, Department of Statistics and Actuarial Science
Missing covariates in cluster-randomized studies
Current Position: Associate Professor, Wilfrid Laurier University

2006 - 2008 Pierre-Jerome Bergeron, Department of Statistics and Actuarial Science
Covariate information in length-biased sampling with recurrent event data
Current Position: Data Scientist, Google Inc.

2006 - 2007 Eleanor Pullenayegum, Department of Statistics and Actuarial Science
Selection effects in clinical trials
Current Position: Associate Professor, Hospital of Sick Children/University of Toronto

2005 - 2006 Lajmi Lakhali-Chaieb, Department of Statistics and Actuarial Science
Recurrent events and multi-state models
Current Position: Full Professor, Laval University

2003 - 2004 Jean-Marie Boher, Department of Statistics and Actuarial Science
Life history methods for multi-state and recurrent event processes
Current Position: Biostatistician, Institut Paoli Calmettes, Marseille, France

2000 - 2001 Grace Yun Yi, Department of Statistics and Actuarial Science
Methods for the analysis of longitudinal and life history data
Current Position: Professor, Western University

DOCTORAL STUDENTS

2022 - Aelita Huang, Department of Statistics and Actuarial Science
TBD

2022 - Xiaoya Wang (co-supervised with Yeying Zhu), Department of Statistics and Actuarial Science
TBD

- 2021 - Kecheng Li, Department of Statistics and Actuarial Science
Causal analysis with multidimensional exposures and complex outcomes
- 2021 - Xianwei Li (co-supervised with Liqun Diao), Department of Statistics and Actuarial Science
Variable selection and prediction for heterogeneous disease processes under incomplete observation
- 2020 - Alexandra Bühler (co-supervised with Jerry Lawless), Department of Statistics and Actuarial Science
Estimands in randomized clinical trials with complex life history processes
- 2019 - Jianchu Chen, Department of Statistics and Actuarial Science
Dependent delayed entry and left-truncation of life history processes
- 2020 - Lijia Wang (co-supervised with Yeying Zhu), Department of Statistics and Actuarial Science
Joint modeling of multiple mediators or outcomes in causal mediation analysis
- 2022 Fangya Mao ², Department of Statistics and Actuarial Science
Design and analysis of life history studies involving incomplete data
Current Position: Post-Doctoral Research Fellow, UWaterloo and NCI Biostatistics Branch, NIH
- 2021 Bing Feng Xie, Department of Statistics and Actuarial Science
Failure time analysis with discrete marker processes under intermittent observation
Current Position: Risk Analyst, Industrial and Commercial Bank of China (ICBC)
- 2021 Ce Yang (co-supervised with Liqun Diao), Department of Statistics and Actuarial Science
Topics in study design and analysis involving incomplete data
Current Position: Post-Doctoral Research Fellow, Harvard University
- 2018 Meaghan Cuerden Knight (co-supervised with Cecilia Cotton and Liqun Diao)
Department of Statistics and Actuarial Science
Marginal causal sub-group analysis with incomplete covariate data
Current Position: Biostatistician, London Health Sciences Centre
- 2018 Jooyoung Lee, Department of Statistics and Actuarial Science
Statistical models and methods for dependent life history processes
Current Position: Assistant Professor, Chung-Ang University, Korea
- 2018 Shu (Joy) Jiang, Department of Statistics and Actuarial Science
Mixture models for coarsened observation of multistate processes
Current Position: Associate Professor, Washington University in St. Louis
- 2018 Nathalie Moon ³ (co-supervised with Leilei Zeng), Department of Statistics and Actuarial Science
Topics in the Design of Life History Studies
Current Position: Assistant Professor - Teaching Stream, University of Toronto
- 2016 Ying Wu, Department of Statistics and Actuarial Science
Modeling and prediction of disease processes subject to intermittent observation
Current Position: Associate Professor, Nankai University, China
- 2015 Yujie Zhong ^{4 5}, Department of Statistics and Actuarial Science
Life history analysis with response-dependent observation
Current Position: Senior Statistician II, AstraZeneca, Research and Development, China
- 2014 Hua Shen, Department of Statistics and Actuarial Science
Statistical methods for life history data involving latent processes
Current Position: Assistant Professor, University of Calgary
- 2013 Liqun Diao⁶, Department of Statistics and Actuarial Science
Copula models for multivariate life history processes
Current Position: Assistant Professor, University of Waterloo
- 2013 Audrey Boruvka, Department of Statistics and Actuarial Science
Statistical analysis of progression-related endpoints

²winner of the *Sprott Award* for Ph.D. Thesis Proposal in Statistics and Actuarial Science at UW for 2020

³winner of the *Sprott Award* for Ph.D. Thesis Proposal in Statistics and Actuarial Science at UW for 2015

⁴winner of the *Sprott Award* for Ph.D. Thesis Proposal in Statistics and Actuarial Science at UW for 2013

⁵winner of the *Pierre Robillard Award* for the best Canadian Ph.D. Thesis in Statistics or Probability, 2016

⁶winner of the *Pierre-Robillard Award* for the best Canadian Ph.D. Thesis in Statistics or Probability, 2014

- Current Position: Statistical Scientist, Roche Canada
- 2012 Michael McIsaac, Department of Statistics and Actuarial Science
Statistical methods for incomplete covariates and two-phase designs
Current Position: Associate Professor, University of Prince Edward Island
- 2012 Longyang Wu, Department of Statistics and Actuarial Science
Statistical methods for multiple endpoints in clinical trials
Current Position: Senior Statistician, Thermo Fisher Scientific
- 2008 Baojiang Chen ^{7 8} (co-supervised with Grace Yi), Department of Statistics and Actuarial Science
Multistate analysis of longitudinal categorical data
Current Position: Associate Professor, School of Public Health, University of Texas
- 2008 David Tolusso, Department of Statistics and Actuarial Science
Robust methods for interval censored multi-state data
Current Position: Pricing Manager, Economical Insurance
- 2007 Bethany White (co-supervised with Grace Yi), Department of Statistics and Actuarial Science
Covariate measurement error with interval-censored life history data
Current Position: Associate Professor - Teaching Stream, University of Toronto
- 2005 Rinku Sutradhar (co-supervised with Jack Kalbfleisch), Statistics and Actuarial Science
Statistical inference for multivariate event history data under incomplete observation
Current Position: Professor, University of Toronto
- 2005 Leilei Zeng ⁹ Department of Statistics and Actuarial Science
Topics on missing data in arising in longitudinal studies
Current Position: Associate Professor, University of Waterloo
- 2003 Eric Bingshu Chen ¹⁰ Department of Statistics and Actuarial Science
Regression problems with multivariate interval-censored recurrent events
Current Position: Professor, Queen's University
- 2002 Wei (Helen) Wei, Department of Statistics and Actuarial Science
Efficiency and robustness considerations in the analysis of recurrent event data
Current Position: Executive Director, US Biostatistics, Zai Lab
- 1997 Edmund Ng ^{11 12} Department of Statistics and Actuarial Science
Statistical methods for heterogeneous event history data
Current Position: Independent Consultant, Seattle, WA

VISITING DOCTORAL STUDENTS

- 2006 Kajsa Kvist, University of Copenhagen (supervisor Per Andersen)
- 2005 Maria Iachina, University of Southern Denmark (supervisor Bent Jorgansen)

MASTER'S STUDENTS

- 2022 Aelita Huang, Department of Statistics and Actuarial Science
Composite likelihood for type K interval-censored failure time data
- 2022 Daofu (Albert) Shen, Department of Statistics and Actuarial Science
Likelihood and two-stage estimation for regression with incomplete multivariate surrogate covariates
- 2022 Xiaoya Wang, Department of Statistics and Actuarial Science
Inverse generalized propensity weighted estimating equations for causal inference with semi-continuous exposures
- 2021 Xianwei Li, Department of Statistics and Actuarial Science
Predictive accuracy of multistate models with coarsened validation data with the volume under the surface
- 2020 Ting Ju (Tina) Cho, Department of Statistics and Actuarial Science
Investigating and mitigating the bias from dependent semi-competing risks

⁷winner of the *Sprott Award* for the best Ph.D. Thesis Proposal in Statistics and Actuarial Science at UW for 2007

⁸winner of the *Pierre-Robillard Award* for the best Canadian Ph.D. Thesis in Statistics or Probability, 2009

⁹winner of the *Sprott Award* for the best Ph.D. Thesis Proposal in Statistics and Actuarial Science at UW for 2003

¹⁰winner of the *Sprott Award* for the best Ph.D. Thesis Proposal in the Department of Statistics and Actuarial Science at UW for 2000

¹¹winner of the *Sprott Award* for the best Ph.D. Thesis Proposal in the Department of Statistics and Actuarial Science at UW for 1997

¹²winner of the *Pierre-Robillard Award* for the best Canadian Ph.D. Thesis in Statistics or Probability, 1998

- 2019 Jianchu Chen, Department of Statistics and Actuarial Science
Inverse probability weighting for dependent left-truncation in Life history analysis
- 2019 Tetiana Kovalova, Department of Statistics and Actuarial Science
Penalized regression and prediction with multi-part models: an application to prediction of preterm birth
- 2019 Manshu Yu, Department of Statistics and Actuarial Science
Joint modeling of a marker process and an illness-death model
- 2018 Faith Lee, Department of Statistics and Actuarial Science
Attenuation from intermittent observation of time-dependent covariates in multistate processes
- 2017 Bing Feng Xie, Department of Statistics and Actuarial Science
The response-dependent design of internal validation studies in cohorts with covariate measurement error
- 2016 Jiahua Che, Department of Statistics and Actuarial Science
The effect of omitted covariates in partially conditional recurrent event analyses
- 2014 Jooyoung Lee, Department of Statistics and Actuarial Science
Misspecification in recurrent event analysis of exacerbations with dependent duration
- 2014 Xihui (Eric) Lin, Department of Statistics and Actuarial Science
Prediction following variable selection with censored data
- 2013 Yu Nakajima, Department of Statistics and Actuarial Science
Adaptive sample size for cluster randomized trials
- 2012 Xin Qiu, Department of Statistics and Actuarial Science
Lasso for interval-censored failure time data
- 2012 Ying Wu, Department of Statistics and Actuarial Science
Measurement error in survival analysis with circulating tumour cells counts
- 2010 Yonathan Brhane, Department of Statistics and Actuarial Science
Mixture models for correlated failure time data under current status observation
- 2010 Yujie Zhong, Department of Statistics and Actuarial Science
Length biased sampling with multivariate failure time data.
- 2009 Liqun Diao, Department of Statistics and Actuarial Science
A review of some issues and methods for causal inference with counterfactuals.
- 2008 Ting Wang, Department of Statistics and Actuarial Science
Missing covariates with truncated lifetime data.
- 2008 Kyle Raymond, Department of Statistics and Actuarial Science
The impact of dependent risk-free periods in marginal analysis of recurrent events.
- 2008 Hua Shen, Department of Statistics and Actuarial Science
Likelihood methods for generalized linear models with incomplete covariate data: application to a study of joint damage in arthritis.
- 2008 Le Li, Department of Statistics and Actuarial Science
Inverse weighting for missing data in the analysis of smoker quitlines.
- 2008 Michael McIscac, Department of Statistics and Actuarial Science
Two-stage study designs for epidemiologic research.
- 2007 Bree Wilton, Department of Statistics and Actuarial Science
Number need to treat type measures for recurrent events.
- 2006 Jun Liang, Department of Statistics and Actuarial Science
Blinded sample size re-estimation for clinical trials based on mixed Poisson processes.
- 2006 Yang Liu, Department of Statistics and Actuarial Science
A review of methods for adaptive clinical trial design.
- 2005 Hongdan Li, Department of Statistics and Actuarial Science
The design and analysis of non-inferiority trials.
- 2002 Bethany White, Department of Statistics and Actuarial Science
A matched case-control study examining the relationship between COPD and osteoporosis.
- 2002 Denise Long, Department of Statistics and Actuarial Science
Model validation for the recruitment of customers by mailing campaigns.

- 2000 Leilei Zeng, Department of Statistics and Actuarial Science
Mechanisms and methods for missing data in longitudinal studies.
- 2000 Zeny Feng, Department of Statistics and Actuarial Science
Methods for cluster correlated binary data.
- 1999 Jessica Tilley, Department of Statistics and Actuarial Science
Multiple organ dysfunction scores as time-dependent predictors of outcomes in the intensive care unit.
- 1998 Melanie Wigg, Department of Statistics and Actuarial Science
Contrasting traditional and tree-based regression techniques.
- 1997 Yu Zhou, Department of Statistics and Actuarial Science
Application of statistical methods to a study of psoriatic arthritis.
- 1997 Danny Pericak, Department of Statistics and Actuarial Science
Data management and statistical analysis of a clinical trial.
- 1997 Sherry Cooper, Department of Statistics and Actuarial Science
Case-control studies and the analysis of matched-pair data.
- 1996 Pui Elaine Chong, Department of Statistics and Actuarial Science
Analysis of longitudinal ordinal data.

UNDERGRADUATE STUDENTS

- 2005 Kimberly Fernandes, Department of Statistics and Actuarial Science
- 2001 Cecilia Cotton (NSERC), Department of Statistics and Actuarial Science
- 1997 Linn Abraham[†], Department of Statistics and Actuarial Science
- 1995 Sandra Cozzetto[‡], Department of Statistics and Actuarial Science

[†] co-supervised with VT Farewell

[‡] co-supervised with KS Brown

EXTERNAL EXAMINER FOR DOCTORAL STUDENTS

- 2023 Julie Kjaeulff Furberg, University of Copenhagen
Treatment effect measures for recurrent event endpoints with and without presence of terminal events
- 2019 Osvaldo Espin-Garcia, University of Toronto
Advances in incomplete data methods for statistical genetics
- 2018 Suman Sarkar, Indian Statistical Institute
Some sequential methodologies on different types of odds ratios in clinical trials
- 2016 Elizabeth M. Renouf, Statistics and Actuarial Science, Western University
Joint modeling in liver transplantation
- 2015 Jaakko Reinikainen, Mathematics and Statistics, University of Jyväskylä, Finland
Efficient design and modeling strategies for follow-up studies with time-varying covariates
- 2014 Ana Best, Mathematics and Statistics, McGill University
Risk-set sampling of left-truncated survival data
- 2010 Andrey Pavlov, Mathematics and Statistics, Queen's University
A new approach to survival analysis with time-dependent covariates
- 2009 Marc Schultz, School of Optometry, University of Waterloo
The evaluation of bulbar redness grading scales.
- 2009 Chun-Po Steve Fan, Dalla Lana School of Public Health, University of Toronto
Local likelihood for interval-censored and aggregated point process data.
- 2009 Taslim Mallick, Mathematics and Statistics, Memorial University of Newfoundland
Conditional weighted generalized quasi-likelihood inferences in incomplete longitudinal models for binary and count data
- 2008 Kajsa Kvist, Biostatistics, University of Copenhagen
Methods for analysing recurrent events in affective disorder.
- 2007 Yingchun Luo, Mathematics and Statistics, Queen's University
Nonparametric statistical procedures for therapeutic equivalence trials with survival endpoints.

- 2006 Monica Taljaard, Department of Epidemiology and Biostatistics, University of Western Ontario
Missing data in cluster randomisation trials: Consequences and methods.
- 2004 Xing Jiang, Department of Mathematics and Statistics, University of Windsor
Tests of homogeneity of several location and scale populations, and analysis of paired count data with zero-inflation and over-dispersion.
- 2003 Monica Taljaard, Department of Epidemiology and Biostatistics, University of Western Ontario
Missing data in cluster randomisation trials: repercussions and remedies for Gaussian outcomes (thesis proposal defense).
- 2003 Ambrose MW Kwok, Department of Mathematics and Statistics. Queen's University
Group sequential design for a global test statistic with mixed endpoints in phase III randomized clinical trials.
- 2003 Abdulkadir Hussein, Department of Mathematical and Statistical Sciences, University of Alberta.
On two-sample sequential testing procedures based on strong approximation principles.
- 2001 Zenghuo Qui, Department of Mathematics and Statistics, York University.
Mixed Simplex Distributions.
- 2001 Rong Huang, Department of Mathematical Sciences, University of Alberta.
Statistical issues with repeated measures designs.
- 1998 Emma Bartfly, Department of Epidemiology and Biostatistics, University of Western Ontario.
The estimation and testing of twin correlation.

EXTERNAL EXAMINER FOR MASTER'S STUDENTS

- 2023 Maria Sbirnac, Biostatistics Division, Dalla Lana School of Public Health, University of Toronto
- 2010 Yongxian Long, Department of Statistics and Actuarial Science, University of Hong Kong
- 2008 Kathy Li, Department of Clinical Epidemiology and Biostatistics, McMaster University
- 2007 Audrey Julia Boruvka, Department of Mathematics and Statistics, Queen's University
Data-driven estimation for Aalen's additive risk model.
- 1995 Girdhar Agarwal, Department of Clinical Epidemiology and Biostatistics, McMaster University
Regression models for modeling trends in treatment effects in RCTs.

GRADUATE PROGRAM INVOLVEMENT

DOCTORAL STUDENT THESIS COMMITTEES

- 2022 - Grace Tompkins, Department of Statistics and Actuarial Science
- 2018 - 2020 Arsalan Afzal, Geriatric Health Systems Research Group
- 2018 - 2019 Li-Pang Chen, Department of Statistics and Actuarial Science
- 2017 - 2019 Mahmood Gohari, School of Public Health and Health Systems
- 2018 - 2019 Yu Gao, Department of Statistics and Actuarial Science
- 2017 - 2019 Shixiao Zhang, Department of Statistics and Actuarial Science
- 2014 - 2016 Yayuan Zhu, Department of Statistics and Actuarial Science
- 2014 - 2015 Feng He, Department of Statistics and Actuarial Science
- 2012 - 2014 Ying Yan, Department of Statistics and Actuarial Science
- 2012 - 2014 Narges Nazeri Rad, Department of Statistics and Actuarial Science
- 2012 - 2013 Jesse Raffa, Department of Statistics and Actuarial Science
- 2011 - 2012 Haocheng Li, Department of Statistics and Actuarial Science
- 2008 - 2012 Oana Danila, Department of Statistics and Actuarial Science
- 2009 - 2010 Candemir Cigsar, Department of Statistics and Actuarial Science
- 2009 - 2010 Zijiang Chen, Department of Statistics and Actuarial Science
- 2008 - 2010 S. Khan, Department of Statistics and Actuarial Science
- 2007 - 2010 Xiaoqin Xiong, Department of Statistics and Actuarial Science
- 2006 - 2010 Rizwan Younis, Civil and Environmental Engineering, University of Waterloo
- 2008 - 2010 Rachel Chu, Department of Clinical Epidemiology and Biostatistics
- 2008 - 2010 Janice Pogue, Department of Clinical Epidemiology and Biostatistics
- 2008 - 2010 Jinhui Ma, Department of Clinical Epidemiology and Biostatistics

2007 - 2010	Rashid Ahmed, Department of Statistics and Actuarial Science
2008 - 2009	Michelle Zhou, Department of Statistics and Actuarial Science
2006 - 2008	Yan Yuan, Department of Statistics and Actuarial Science
2006	Jeff Poss, Department of Health Studies and Gerontology
2005 - 2006	Peng Zhang, Department of Statistics and Actuarial Science
2003 - 2005	Yun Hee Choi, Department of Statistics and Actuarial Science
2003 - 2004	Yang Zhao, Department of Statistics and Actuarial Science
2003 - 2004	Denise Babineau, Department of Statistics and Actuarial Science
2004	Victor Mooto Nawa, Department of Statistics and Actuarial Science
2003 - 2004	Zeny Feng, Department of Statistics and Actuarial Science
2003	Christian Boudreau, Department of Statistics and Actuarial Science
1999 - 2001	Wenqing He, Department of Statistics and Actuarial Science
1997 - 2001	Karen Kopciuk, Department of Statistics and Actuarial Science
1996 - 2000	Mable Huntzberger, Department of Health Studies and Gerontology
1998 - 1999	Thierry Duchesne, Department of Statistics and Actuarial Science
1997 - 1999	Rhonda Rosychuk, Department of Statistics and Actuarial Science
1996 - 1999	Min Zhan, Department of Statistics and Actuarial Science
1996 - 1997	Ronnie Lee, Department of Statistics and Actuarial Science
1996 - 1997	Dan Fong, Department of Statistics and Actuarial Science
1996 - 1997	Erin Tjam, Department of Health Studies and Gerontology
1996 - 1997	Paul MacDonald, Department of Health Studies and Gerontology
1993 - 1996	Renee Williams, Department of Health Studies and Gerontology
1995 - 1996	Joanne Tober, Department of Health Studies and Gerontology
1993 - 1996	Paul Stolee, Department of Health Studies and Gerontology

MASTER'S STUDENT THESIS COMMITTEES

2018	Jim Liang, Department of Statistics and Actuarial Science (Waterloo)
2017	Andrew Shih, Department of Clinical Epidemiology and Biostatistics (McMaster)
2016	Jason Blais, Department of Statistics and Actuarial Science (Waterloo)
2015	Rebecca Barty, Department of Clinical Epidemiology and Biostatistics (McMaster)
2015	Naushin Sholapur, Department of Clinical Epidemiology and Biostatistics (McMaster)
2015	Ziad Solh, Department of Clinical Epidemiology and Biostatistics (McMaster)
2013	Xiao Liu (second reader) Department of Statistics and Actuarial Science (Waterloo)
2013	Nathalie Moon (second reader) Department of Statistics and Actuarial Science (Waterloo)
2012	Sandra Gonzales, (second reader) Department of Statistics and Actuarial Science (Waterloo)
2009	Jenna Sykes, (second reader) Department of Statistics and Actuarial Science (Waterloo)
2008	Hong Wei, (second reader) Department of Statistics and Actuarial Science (Waterloo)
2007	Paula Sanchez Romeu, (second reader) Department of Statistics and Actuarial Science (Waterloo)
2006	Donald Arnold, Clinical Epidemiology and Biostatistics (McMaster)
2005	Tova Miadovnik, (second reader) Department of Statistics and Actuarial Science (Waterloo)
2005	Xinlei Xie, (second reader) Department of Statistics and Actuarial Science (Waterloo)
2004	David Dorey, (second reader) Department of Statistics and Actuarial Science (Waterloo)
2001	Francis Lai, (second reader) Department of Statistics and Actuarial Science (Waterloo)
2000	Qing Guo, (second reader) Department of Statistics and Actuarial Science (Waterloo)
1998	Janneth Pazmino, Department of Health Studies and Gerontology (Waterloo)
1997	Mak Yat Hang, Department of Statistics and Actuarial Science (Waterloo)
2000	Karen Pritchett, Department of Health Studies and Gerontology (Waterloo)

DOCTORAL STUDENT RESEARCH ASSISTANTS

1996	Xiaolin Gu, Department of Statistics and Actuarial Science
1995	Karen Kopciuk, Department of Statistics and Actuarial Science
1994	Rhonda Rosychuk, Department of Statistics and Actuarial Science

MASTER'S STUDENT RESEARCH ASSISTANTS

2006	Sai Ma, Department of Statistics and Actuarial Science
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2000	Charlotte Baidoo, Department of Statistics and Actuarial Science
1999	Farouk Nathoo, Department of Statistics and Actuarial Science
1999	Karen Fitchett, Department of Health Studies and Gerontology
1997	Peter Chae, Department of Statistics and Actuarial Science
1992	Ba Pham, Department of Statistics and Actuarial Science

Founding Chair/Directory of Graduate Training Programs

Founding Director, Biostatistics Training Initiative (2010 - 2020)

In 2010 I designed and served as founding Director of the elite graduate training program (Biostatistics Training Initiative) established with the goals of increasing the capacity and capability for cutting edge quantitative research in oncology in Ontario. Supported by the Ontario Institute for Cancer Research (OICR) with over \$2,300,000 in funding to date, the program achieves these goals through advanced training in relevant statistical theory and computational methods, combined with intensive practical experience through funded 8-month internships in cancer research centres. It has twice been designated "the jewel in the crown" of programs at OICR.

I planned and served as founding director of a graduate training program designed to create graduates from the UW Biostatistics program who are well-equipped with the knowledge to work effectively in teams addressing current challenges in cancer research. This program was designed to address an unmet need of statistical support expressed by the oncology research community and was funded by the Ontario Institute for Cancer Research (OICR). Over the first 10 years I lead (2010 - 2015) or co-lead with Greg Pond (McMaster University) this program (2015 - 2020), scores of students completed eight-month internships in cancer research centers in Ontario with many taking on positions in cancer research upon graduation.

[Click here to read the archived information.](#)

Founding Chair, Biostatistical and Methods Innovation Group, CANNeCTIN Network (2008 - 2010)

Through a partnership with the Population Health Research Institute (McMaster University), this methodology training program involved graduate trainees from McGill, Ottawa, Toronto, McMaster and the UWaterloo. Each year a total of \$150,000 in CIHR funding was allocated to biostatistics graduate students doing research relevant to cardiovascular disease. A regular seminars was also held to encourage the exchange of ideas between the medical and statistical research communities across the province and to and foster interdisciplinary collaboration.

Founding Chair, Biopharmaceutical Statistics Graduate Training Program (1999 - 2006)

I served as the University of Waterloo lead in the creation of a partnership between UWaterloo and Glaxo-SmithKline to support a graduate training initiative involving the placement of graduate interns into pharmaceutical positions, a scholarship program supporting UWaterloo Biostatistics graduate students conduct research in pharmaceutical statistics, and a monthly technical seminar series for trainees and statisticians in the pharmaceutical industry.

TEACHING

GRADUATE COURSES

2023 (Winter Term)	Stat 935, The Analysis of Survival Data (Enrl: 6)
2022 (Spring Term)	Stat 947, Event History Analysis (Enrl: 4)
2022 (Winter Term)	Stat 935, The Analysis of Survival Data (Enrl: 17)
2021 (Winter Term)	Stat 935, The Analysis of Survival Data (Enrl: 7)
2020 (Winter Term)	Stat 935, The Analysis of Survival Data (Enrl: 13)
2019 (Winter Term)	Stat 935, The Analysis of Survival Data (Enrl: 10)
2018 (Spring Term)	Stat 947*, Life History Analysis Topics (Enrl: 1)
2018 (Winter Term)	Stat 935, The Analysis of Survival Data (Enrl: 15)
2017 (Winter Term)	Stat 935, The Analysis of Survival Data (Enrl: 10)
2015 (Fall Term)	Stat 932, Methods for Randomized Trials (Enrl: 5)

2014 (Winter Term)	Stat 935, The Analysis of Survival Data (Enrl: 12)
2013 (Fall Term)	Stat 932, Methods for Randomized Trials (Enrl: 13)
2013 (Winter Term)	Stat 935, The Analysis of Survival Data (Enrl: 18)
2012 (Fall Term)	Stat 932, Methods for Randomized Trials (Enrl: 15)
2012 (Winter Term)	Stat 935, The Analysis of Survival Data (Enrl: 12)
2011 (Winter Term)	Stat 935, The Analysis of Survival Data (Enrl: 7)
2010 (Spring Term)	Stat 947, Event History Analysis (Enrl: 9)
2010 (Winter Term)	Stat 935, The Analysis of Survival Data (Enrl: 10)
2009 (Fall Term)	Stat 431/831, Generalized Linear Models (Enrl: 44)
2008 (Fall Term)	Stat 431/831, Generalized Linear Models (Enrl: 38)
2008 (Spring Term)	Stat 947, Event History Analysis (Enrl: 10)
2007 (Fall Term)	Stat 431/831, Generalized Linear Models (Enrl: 53)
2006 (Fall Term)	Stat 431/831, Generalized Linear Models (Enrl: 59)
2006 (Winter Term)	Stat 935, The Analysis of Survival Data (Enrl: 23)
2005 (Fall Term)	Stat 431/831, Generalized Linear Models (Enrl: 46)
2005 (Winter Term)	Stat 935, The Analysis of Survival Data (Enrl: 18)
2004 (Fall Term)	Stat 431/831, Generalized Linear Models (Enrl: 23)
2003 (Fall Term)	Stat 431/831, Generalized Linear Models (Enrl: 21)
2002 (Fall Term)	Stat 431/831, Generalized Linear Models (Enrl: 24)
2001 (Fall Term)	Stat 431/831, Generalized Linear Models (Enrl: 16)
2000 (Fall Term)	Stat 431/831, Generalized Linear Models (Enrl: 16)
1999 (Fall Term)	Stat 937, Epidemiology and Clinical Trials (Enrl: 14)
1999 (Fall Term)	Stat 431/831, Generalized Linear Models (Enrl: 14)
1998 (Fall Term)	Stat 937, Epidemiology and Clinical Trials (Enrl: 6)
1998 (Winter Term)	HS 720C, Statistical Methods for Medical Research (Enrl: 5)
1997 (Winter Term)	Stat 937, Statistical Methods for Medical Research (Enrl: 6)
1997 (Winter Term)	HS 720C, Methods for Health Research (Enrl: 6)
1996 (Fall Term)	Stat 431/831, Generalized Linear Models (Enrl: 16)
1996 (Spring Term)	HS 720G*, Statistical Methods for Environmental Research (Enrl: 1)
1996 (Winter Term)	Stat 937/HS 720C, Clinical Trials and Epidemiology (Enrl: 10)
1993 (Spring Term)	Stat 943A, Topics in Clinical Trials (Enrl: 4)

* A reading course

UNDERGRADUATE COURSES

1998 (Winter Term)	Stat 241, Empirical Problem Solving (Enrl: 5)
1995 (Spring Term)	Stat 333, Applied Probability (Enrl: 20)
1995 (Spring Term)	Stat 231, Empirical Problem Solving (Enrl: 60)
1994 (Spring Term)	Stat 231, Empirical Problem Solving (Enrl: 60)
1993 (Spring Term)	Stat 231, Empirical Problem Solving (Enrl: 60)
1992 (Spring Term)	Stat 231, Statistical Inference (Enrl: 45)

RESEARCH INTERESTS

RESEARCH INTERESTS IN STATISTICS

Event history analysis
 Statistical methods for longitudinal data
 Generalized linear models
 Multi-state models
 Methods for heterogeneous data
 Statistical inference
 Design and analysis methodology for clinical trials

RESEARCH INTERESTS IN HEALTH

Cancer
 Infectious disease
 Transfusion medicine
 Cardiovascular disease
 Rheumatology

SCHOLARSHIPS

1992	NHRDP Training Fellowship, University of Waterloo
1992	University of Waterloo Graduate Scholarship, University of Waterloo
1991 - 1992	NSERC Post-Graduate Scholarship - PG 3-4, University of Waterloo
1991	University of Waterloo Graduate Scholarship, University of Waterloo
1990	NSERC Post-Graduate Scholarship - PG 2, University of Waterloo
1988	NSERC Post-Graduate Scholarship - PG 1, University of Waterloo
1988	NSERC Undergraduate Scholarship, McMaster University
1987	NSERC Undergraduate Scholarship, McMaster University
1987	Herber A. Ricker Scholarship, McMaster University
1987	J.D. Bankier Memorial Scholarship, McMaster University
1986	NSERC Undergraduate Scholarship, McMaster University
1985	Harry Lyman Hooker Scholarship, McMaster University

CAREER AWARDS

[Mathematics Faculty Research Chair](#), Statistical Methods for Health Research, July 1, 2019 – June 31, 2024.

[Canada Research Chair](#) (Tier I - Renewal), Statistical Methods for Health Research, Canada Research Chairholder, \$1,400,000, May 1, 2012 – April 30, 2019.

Canada Research Chair (Tier I), Statistical Methods for Health Research, Canada Research Chairholder, \$1,400,000, May 1, 2005 – April 30, 2012.

CIHR Investigator, Methods for Lifetime Data Analysis in Medical Research, Canadian Institutes of Health Research, v\$350,000, July 1, 2000 – April 30, 2005.

MRC Scholar, Medical Research Council of Canada, \$250,000, 1996–2000.

Premier's Research Excellence Award, Ontario Ministry of Energy, Science and Technology (\$100,000) and GlaxoWellcome (\$50,000), 1999–2004.

RESEARCH GRANTS

OPERATING GRANTS

STATISTICAL METHODS

Cook RJ (NPI), Lawless JF, Chandran V, Eder L, Gladman D, Touma Z, Urowitz M. Methods for assessing real-world causal effects with electronic health records: biologic therapies in autoimmune diseases. Canadian Institutes of Health Research, Project Grant: Spring 2022, \$631,126, October 1, 2022 – September 30, 2027.

Cook RJ (NPI), Ryan LM (PI), Carter RC (co-A), Jacobson JL (co-A), Jacobson SW (co-A), Dang DKD (co-A), Carmichael Olson H, Coles C, Day N, Richardson G. The development and application of innovative biostatistical methodology for the study of prenatal alcohol exposure and its effect on cognitive and behavioural deficits in children. Canadian Institutes of Health Research, Project Grant: Fall 2021, \$661,724, April 1, 2022 – March 31, 2026.

Lakhal-Chaieb L (PI), Cook RJ (PI), Briollais L (PI). Statistical methods for the analysis of genetic data with survival outcomes. Collaborative Research Team Grant, Canadian Statistical Sciences Institute (CANSSI), \$180,000, April 1, 2019 – March 31, 2022.

Cook RJ. Biostatistical methods for outcome-dependent selection and observation schemes in the study of complex chronic diseases. Canadian Institutes of Health Research, Project Grant: Spring 2018 - Bridge Grant, \$100,000, October 1, 2018 – September 30, 2019.

Sauerbrei W, Abrahamowicz M, Cook RJ, Huebner M, Carpenter J for the STRATOS Initiative. Developing a Comprehensive, Integrated Framework for Advanced Statistical Analyses of Observational Studies. BIRS Workshop Proposal 2019, September 29, 2017.

Cook RJ. Design and analysis of multiphase studies featuring incomplete data. Department of National Defence Discovery Grant Accelerator Award. Natural Sciences and Engineering Research Council of Canada, Discovery Grants Supplements, \$120,000, January 1, 2018 – December 31, 2020.

Cook RJ. Design and analysis of multiphase studies featuring incomplete data. Natural Sciences and Engineering Research Council of Canada, Discovery Grant - Individual (with one-year COVID-19 extension), \$336,000, April 1, 2017 – March 31, 2023.

- Cook RJ and Yi GY. Graduate training award for Biostatistical and Methodological Innovation. CANNeCTIN, \$30,000, 2014.
- Cook RJ and Yi GY. Graduate training award for Biostatistical and Methodological Innovation (support for Feng He, Suzanne Li, Nathalie Moon, Ying Yan). CANNeCTIN, \$30,000, 2013.
- Cook RJ and Yi GY. Graduate training award for Biostatistical and Methodological Innovation (support for Feng He and Ying Yan). CANNeCTIN, \$30,000, 2012.
- Cook RJ and Yi GY. Graduate training award for Biostatistical and Methodological Innovation (support for Audrey Boruvka, Liqun Diao, Haocheng Li, Yujie Zhong). CANNeCTIN, \$30,000, 2011.
- Cook RJ (PI). Design and analysis of cohort studies with incomplete exposure assessment. Natural Sciences and Engineering Research Council of Canada, Discovery Grant - Individual, \$200,000, May 1, 2010 – April 30, 2015.
- Cook RJ (PI). Methods for the analysis of complex life history data. Canadian Institutes of Health Research, Operating Grant - Grant Renewal, \$975,511, April 1, 2010 – March 31, 2015.
- Cook RJ and Yi GY. Graduate training award for Biostatistical and Methodological Innovation (support for Haocheng Li and Longyang Wu), CANNeCTIN, \$30,000, 2010.
- Cook RJ (PI). Estimating functions for longitudinal data under incomplete observation. Natural Sciences and Engineering Research Council of Canada, Discovery Grant - Individual, \$190,000, May 1, 2005 – April 30, 2010.
- Cook RJ (PI). Methods for the analysis of complex life history data. Canadian Institutes of Health Research, Operating Grant, \$495,355, April 1, 2005 – March 31, 2010.
- Cook RJ (PI). Incomplete Multivariate Event History Data. Natural Sciences and Engineering Research Council of Canada, \$92,400, May 1, 2001 – April 30, 2005.
- Cook RJ (PI). Methodology for Lifetime and Longitudinal Data in Medical Research. Medical Research Council of Canada, Operating Grant, \$490,000, April 1, 2000 – March 31, 2005.
- Cook RJ (PI). Statistical methods for mixed lifetime data. Natural Sciences and Engineering Research Council of Canada, \$80,000, May 1, 1997 – April 30, 2001.
- Cook RJ (PI). Development and application of biostatistical methods for longitudinal trials. Medical Research Council of Canada, Operating Grant: \$264,000, Equipment Grant: \$22,000, July 1, 1995 – June 30, 2000.
- Cook RJ (PI). The design and analysis of longitudinal studies with recurrent events. Natural Sciences and Engineering Research Council of Canada, \$39,000, May 1, 1994 – April 30, 1997.

HEMATOLOGY

- Zeller MP (PI), Heddle NM (PI), Acker JP, Arnold DM, Callum JL, Cook RJ, Ning S, Rochweg BN, Solh Z, Warkentin TE, Webert KE. Pilot trial of sex-matched compared to sex-mismatched red blood cell transfusion. Canadian Institutes of Health Research, Project Grant: Spring 2020, \$214,200, October 1, 2020 – September 30, 2022.
- Arnold D (PI), Acker J, Buckstein R, Cook R, Heddle N, Solh Z, Webert K. Revisiting the universal donor: Does exposure to O blood products affect patient outcomes? Canadian Blood Services, Intramural Research Grant Program, \$378,365, October 1, 2020 – October 31, 2022.
- Solh Z (PI), Heddle N, Cook RJ, Fusch C. Neonatal outcomes after transfusion of ABO non-identical blood (Neo-ABO). Canadian Blood Services, Small Project Funding Program, \$14,989, September 1, 2016 – August 31, 2017.
- Arnold DM (PI), Nazi I, Cook R. Defining disease mechanisms in immune thrombocytopenia (ITP) and their association with clinical outcomes. Canadian Institutes of Health Research, Operating Grant: Priority Announcement - Transfusion Science, \$317,468, July 1, 2015 – June 30, 2018.
- Heddle NM (PI), O'Brien S, Arnold DM, Webert K, Barty R, Cook R, Jenkins C, Acker J. Merging donor, product and recipient data: an exploratory analysis of donor gender, recipient gender and product age on clinical outcomes. Canadian Blood Services - Research and Development, Research and Development Intramural Grant, \$130,000, July 1, 2013 – March 31, 2015.
- Hayward CPM, Pai M, Heddle N, Cook RJ. Development of a clinical history assessment tool for bleeding disorders. Canadian Hemophilia Society, Care Until Cure Research Program, \$63,856, April 1, 2009 – March 31, 2011.
- Arnold DA, Meyer R, Crowther M, Cook RJ, Heddle NM. A randomized double blind placebo controlled trial for splenectomized adults with ITP receiving standard treatment (R-ITP). Hoffmann-la-Roche Limited, Canada, \$675,000, 2006–2008.

CANCER RESEARCH

Boher J-M (PI), Cook RJ, Giorgi R, Filleron T, Kramar A. Competing risks analysis and cancer: adequacy testing and unbiased estimation under misspecified regression modelling. Institut Paoli-Calmettes (France), 134.000€, June 2012 – May 2015.

Campbell HS (PI), Cook RJ, Hayward LM, Sanson-Fisher R, Taylor-Brown JW, Turner DCR. Cancer survivorship: an inter-provincial study to determine the prevalence and predictors of the unmet needs of cancer survivors and their principal support person. Canadian Institutes of Health Research, Operating Grant - PA: Cancer Research (bridge funding), \$100,000, October 1, 2008 – September 30, 2009.

RHEUMATOLOGY

Eder L (NPI), Adebajo A (co-A), Aydin S (co-A), Chandran V (co-A), Cook RJ (co-A), Leung YY (co-A), Mease P (co-A), Ogdie-Beatty A (co-A), Rochon P (co-A), Soni A (co-A), Strand V (co-A), Chau J, Coates L, Kalyoncu U, Lubrano E, Maharaj A, Olsder W, Proft F, Schainberg C, Solmaz D, Zisman D. Sex Matters: Sex- And Gender-based analysis of the Effectiveness of advanced therapies in Psoriatic Arthritis (SAGE-PsA) – an international multicentre study. Canadian Institutes of Health Research, Project Grant: Fall 2022. \$855,000 – April 1, 2023 – March 31, 2027.

Chandran V (NPI), Kulasingam V (PI), Boyle J, Cook R, Eder J, Jurisica I, Pawliszyn J, Rosen C. Identifying metabolomic markers in disease activity in psoriatic disease using solid phase microextraction - liquid chromatography - high resolution mass spectrometry. Canadian Institutes of Health Research, CIHR Institute of Musculoskeletal Health and Arthritis (IMHA) Priority Announcement, \$100,000, April 1, 2021 – March 31, 2022.

Cook RJ (PI for Subgrant to UW¹³). Derivation of a psoriatic arthritis risk estimation tool (PRESTO): a step towards prevention. Physicians' Services Incorporated (PSI) Foundation, Operating Grant. \$45,000, October 1, 2020 – September 30, 2023.

Cook RJ (PI). Defining disease phenotypes in systemic lupus erythematosus: towards personalized medicine. Centre for Prognosis Studies in Rheumatic Disease, Toronto Western Hospital, University Health Network, CIHR/Lupus Canada Subgrant. \$25,000, September 1, 2020 – March 31, 2021.

Eder L (PI), Gladman D (PI), Chandran V, Christopher R, Cook RJ, Drucker A, Rosen C, Widdifield J. Derivation of a psoriatic arthritis risk estimation tool (PRESTO): a step towards prevention. Physicians' Services Incorporated (PSI) Foundation, Operating Grant. \$219,000, October 1, 2020 – September 30, 2023.

Eder L (PI), Ogdie-Beatty A (PI), Chandran V, Compher C, Cook RJ, Gladman D, Scher J. Dietary interventions in psoriatic arthritis (DIPsA): a randomized controlled, pilot trial. Canadian Institutes of Health Research, Project Grant: Fall 2019. \$351,900, April 1, 2020 – September 30, 2022.

Chandran V (PI), Eder L, Cook R, Gladman D, Jurisica I, Rahman P, Kulasingam V, Bansback N, Rosen C. Biomarkers of progression to psoriatic arthritis in patients with psoriasis (BOP-to-PsA). National Psoriasis Foundation (USA), Psoriatic Arthritis Diagnostic Test Grant. USD\$100,000, July 1, 2019 – June 30, 2020.

Eder L (PI), Chandran V, Cook RJ, Eshed I, Jurisica I, Proton R. Defining imaging subphenotypes in PsA and their correlation with molecular signature: A step towards precision medicine. National Psoriasis Foundation (USA), Discovery Grant. USD\$75,000, July 1, 2018 – December 31, 2019.

Eder L (PI), Cook RJ, Proton R. Genetic testing and musculoskeletal ultrasound to improve early detection of psoriatic arthritis in patients with psoriasis. Spondyloarthritis Research Consortium Canada (SPARCC), Pilot Grant. \$24,500, August 1, 2018 – July 31, 2019.

Gladman DD (PI), Chandran V, Cook RJ, Liang K, Mi Q-S, Pollack R, Rosen CF. Susceptibility and severity factors for psoriatic arthritis: transcriptomic studies. Canadian Institutes of Health Research, Project Grant: Fall 2017. \$612,000, April 1, 2018 – March 31, 2022.

Urowitz MB (PI), Gladman DD, Cook RJ, Su J, Anderson N. Scrutinizing the heterogeneity of systemic lupus erythematosus: defining phenotypes. Lupus Canada, Catalyst Grant Program, \$35,000, August 1, 2017 – July 31, 2018.

Urowitz MB (PI), Gladman DD, Touma Z, Hiraki LT, Cook RJ. Defining phenotypes in systemic lupus erythematosus: towards an individualized approach. Canadian Institutes of Health Research, Project Grant: Fall 2016. \$609,992, April 1, 2017 – March 31, 2020.

Eder L (PI), Ritchlin C, Zisman D, Cook RJ. Could systemic anti-psoriatic therapy modify psoriatic arthritis risk in patients with moderate-severe psoriasis? A population-based cohort study. GRAPPA Pilot Research Grant. USD\$25,000, August 1, 2017 – July 31, 2019.

Eder L (PI), Tu K, Widdifield J, Cook RJ. Raising awareness of the under-recognized burden of psoriatic disease. Canadian Rheumatology Association, Canadian Initiative for Outcomes in Rheumatology Care (CIORA) Grant, \$119,024, July 1, 2017 – June 30, 2019.

¹³Sub-Agreement between Women's College Hospital (where the full awarded PSI grant of \$219,000 is held by Dr. Lihi Eder) and the University of Waterloo.

Chandran V (PI), Kulasingam V, Cook RJ, Boyle JM, Pawliszyn JB. Understanding dynamic psoriasis phenotypes through metabolomics. Canadian Institutes of Health Research, Catalyst Grant: Musculoskeletal Health and Arthritis. \$100,000, March 1, 2017 – February 28, 2018.

Eder L (PI), Harvey P (co-PI), Cook RJ (co-PI). Investigation of the interplay between inflammation, metabolic abnormalities and cardiovascular risk and development of cardiovascular risk score in psoriatic disease. Young Investigator Salary Award, The Arthritis Society, \$180,000, September 1, 2016 – August 31, 2019.

Eder L (PI), Harvey P, Cook R, Gladman DD, Sattar N, McInnes I, Chandran V. Investigation of the interplay between inflammation, metabolic abnormalities and cardiovascular risk and the development of cardiovascular risk score in psoriatic disease. Arthritis Society of Canada, Strategic Operating Grant. \$309,270, May 1, 2017 – April 30, 2020.

Eder L (PI), Harvey P, Sattar N, McInnes I, Cook R, Gladman D, Chandran V. Metabolomics profiling for identification of potential biomarkers for atherosclerosis progression in psoriatic disease. National Psoriasis Foundation (USA), Discovery Grant, USD\$73,860, July 1, 2016 – June 30, 2017.

Gladman DD (PI), Ritchlin C, Cook RJ. Identifying psoriatic arthritis among patients with psoriasis. The Arthritis Society, Strategic Operating Grant, \$329,979.5, July 1, 2012 – September 30, 2015.

Chandran V (PI), Cook RJ, Diamandis EP, Gladman DD, Rosen CF. Identifying biomarkers for psoriatic arthritis: from discovery to prognostication. Canadian Institutes of Health Research/Institute, Operating Grant - PA: Musculoskeletal Health, Arthritis, Skin and Oral Health (Bridge Grant), \$100,000, July 1, 2011 – June 30, 2012.

Gladman DD (PI), Cook RJ, Rosen C, Chandran V. Interplay between skin and joint disease: genetic factors in psoriasis and psoriatic arthritis. The Arthritis Society, Strategic Operating Grant, \$360,000, October 1, 2010 – September 30, 2013.

Gladman DD (PI), Cook RJ, Husted JA, Rosen CF. Interplay between skin and joint disease - genetics factors in psoriasis and psoriatic arthritis. Canadian Institutes of Health Research, Operating Grant - PA: Musculoskeletal Health, Arthritis, Skin and Oral Health (Bridge Grant), \$100,000, October 1, 2009 – September 30, 2010.

Gladman DD (PI), Inman RI, Cook RJ, Rosen C. Biomarkers for activity and severity of spondyloarthritis. Canadian Institutes of Health Research, National Strategy on Patient Oriented Research (NSPOR), \$100,000, January 1, 2009 – December 31, 2009.

Gladman DD (PI), Rosen CF, Cook RJ, Husted JA. Interplay between skin and joint disease - genetics factors in psoriasis and psoriatic arthritis. Canadian Institutes of Health Research, Operating Grant - PA: Musculoskeletal Health, Arthritis, Skin and Oral Health, \$100,000, October 1, 2008 – September 30, 2009.

Inman R (PI), Gladman DD, Maksymowych W, Rahman P, Davis A, Tsui F, Greenwood C, Badley E, Scherer S, Reeve J, Cook RJ (Co-I). Spondyloarthritis Research Consortium of Canada (SPARCC). The Arthritis Society, New Emerging Team Grant, \$2,500,000, July 1, 2006 – June 30, 2011.

Gladman DD (PI), Rosen C, Cook RJ (Co-I), Husted JA. Interplay between skin and joint disease: Genetic factors in psoriasis and psoriatic arthritis. Canadian Institutes of Health Research and The Arthritis Society, Operating Grant, \$246,000, October 1, 2005 – September 30, 2007.

Gladman DD (PI), Husted JA and Cook RJ (Co-I). Prognostic Indicators in Psoriatic Arthritis. Medical Research Council of Canada, \$227,910, October 1, 1999 – September 30, 2002.

Gladman DD (PI), Husted J and Cook RJ (Co-I). Prognosis studies in psoriatic arthritis. The Arthritis Society, Operating Grant, \$89,886, July 1, 1999 – June 30, 2002.

Gladman DD (PI), Husted J and Cook RJ (Co-I). Prognostic Indicators in Psoriatic Arthritis. Medical Research Council of Canada, Operating grant, \$77,000, October 1, 1996 – September 30, 1998.

CHRONIC DISEASE PREVENTION

Cameron R, Riley B (PI), Ferrence R, Raine K, Gotay C, Plotnikoff R; Co-Applicants: 58 additional mentors, including Richard Cook. Population intervention for chronic disease prevention: a pan-canadian program. Canadian Institutes of Health Research, Training Grant, \$1,950,000, March 1, 2009 – March 31, 2015.

Cameron R (PI), Brown KS, Fong G, Ashley MJ, Ferrence R, Johnson J, Lovato C, Shelby P, Sparks R, Tyndale R, Best A, Cohen A, Campbell S, Cook RJ (Co-I), Manske S, McDonald P, Poland P, Ratner P, Single E, Skinner H, Thompson ME, Zanna M. Tobacco research. Canadian Institutes of Health Research, Tobacco Research Training Program, \$1,500,000, 2002 – 2007.

Cameron RS (PI), Brown KS, Cook RJ and Husted J (Co-I). Centre for Behavioural Research and Program Evaluation. National Cancer Institute of Canada, \$100,000, 1995–2000.

Brown KS (PI), Cameron RS and Cook RJ (Co-I). Evaluating school-based smoking reduction programs. Heart and Stroke Foundation, \$465,000, 1998–2000.

Brown KS (PI), Cook RJ, Husted J and Fong G (Co-I). Centre for Behavioural Research and Program Evaluation. National Cancer Institute of Canada, \$10,250, 1998.

Brown KS (PI), Cameron RS and Cook RJ (Co-I). Evaluating school-based smoking reduction programs. Heart and Stroke Foundation, \$314,950, 1996–1998.

COVID-19 RESEARCH

Chandran V (PI), Cook R, Gingras AC, Haroon N, Inman R, Piguet V, Silverberg M, Watts T. Immune response after COVID-19 vaccination during maintenance therapy in immune-mediated inflammatory diseases: an observational cohort study (IMPACT). Canadian Institutes of Health Research, Operating Grant: Emerging COVID-19 Research Gaps and Priorities – Vaccines. \$499,800, June 1, 2021 – May 31, 2022.

Chandran V (NPI), Bowdish D (NPI), Bernatsky S (NPI), Hitchon C (NPI), Gingras A-C, Haroon N, Inman R, Cook R, Kaplan G, McGeer A, Piguet V, Rahman P, Silverberg M, Watts T, Kuriya B, Garner S, Larché M, Marshall J, Nazy I, Avina-Zubieta A, Barnabe C, Boire G, Colmegna I, Fortin PR, Hazlewood G, Lacaille D, Widdifield J, Colwill K, Wood H. Safety immunogenicity of COVID-19 vaccines in systemic immune-mediated inflammatory diseases (SUCCEED). Canadian Vaccine Surveillance Reference Group and COVID-19 Immunity Task Force, SARS-CoV-2 Vaccine Safety and Effectiveness. \$3,187,905, April 1, 2021 – March 31, 2023.

Arnold D (PI), Bégin P (PI), Callum, JL (PI), Bazin R, Chasse M, Cook RJ, Daneman N, Devine DV, Fergusson DA, Finzi A, Fralick MP, Glesby MJ, Heddle NM, McGeer AJ, Robitaille N, Scales DC, Schwartz LJ, Shehata N, Tinmouth AT, Turgeon AF, Xie F, Zarychanski R, Zeller MP. A randomized open-label trial of CONvalescent plasma for hospitalized adults with acute COVID-19 respiratory illness (CONCOR-1). Government of Ontario (Ottawa, ON), COVID-19 Rapid Research Fund. \$1,190,221, May 1, 2020 – May 31, 2022.

Arnold D (PI), Bégin P (PI), Callum, JL (PI), Bazin R, Chasse M, Cook RJ, Daneman N, Devine DV, Fergusson DA, Finzi A, Fralick MP, Glesby MJ, Heddle NM, McGeer AJ, Robitaille N, Scales DC, Schwartz LJ, Shehata N, Tinmouth AT, Turgeon AF, Xie F, Zarychanski R, Zeller MP. A randomized open-label trial of CONvalescent plasma for hospitalized adults with acute COVID-19 respiratory illness (CONCOR-1). Canadian Institutes of Health Research, Operating Grant: COVID-19 Rapid Research Funding Opportunity - Therapeutics, \$2,972,273, August 1, 2020 – August 31, 2021.

Callum J (PI), Scales D, McGeer A, Shehata N, Daneman N, Arnold D (Co-P), Tinmouth A, Devine D, Cook R, Fergusson D, Zeller M, Heddle N, Schwartz L, Carl R, Zarychanski R, Bégin P. CONvalescent plasma for COVID-19 research trial (CONCOR-1 trial). University of Toronto, Toronto COVID-19 Action Initiative 2020, \$500,000, April 1, 2020 – April 30, 2021.

OTHER

Cook RJ (PI for Sub-Award to UW¹⁴). MicroRNA as Biomarkers of Exposure and Effect in Fetal Alcohol Spectrum. National Institutes of Health (US), Institute on Alcohol Abuse and Alcoholism, \$220,031, January 1, 2019 – May 31, 2021.

Leatherdale ST (PI), de Groh M (PI), Laxer RE (PI), Bélanger R, Carson VL, Chaput J-P, Cole AG, Cook RJ, Costello MJ, Dobbins MJ, Dubin JA, Faulkner G, Ferro M, Georgiadis KK, Haddad S, Maginn D, Patte K, Sabiston CM, Sen A, Wade TJ. Evaluating the impact of local, provincial, and national cannabis policies among youth in the COMPASS system. Canadian Institutes of Health Research, Partnerships for Cannabis Policy Evaluation, \$420,000, February 1, 2020 – January 31, 2023.

Garg A (PI), Coca S, Cook RJ, Cuerden MS, Devereaux PJ, Hu S, Jain AR, Lamy A, Novick RJ, Parikh CR, Walsh MW. Preventing chronic kidney disease by avoiding acute, transient elevations in serum creatinine. Canadian Institutes of Health Research, Operating Grant, \$196,550, April 1, 2010 – March 31, 2015.

Stolee P (PI), Berg KO (PI), Byrne K, Chesworth B (PI), Cook RJ (PI), Egan MY (PI), Hirdes JP, Jaglal SB, Poss JW, et al. InfoRehab: Enhancing MSK rehabilitation through better use of health information. Canadian Institutes for Health Research, Emerging Team Grant: Applied Health Services and Policy Research, \$1,500,000, December 1, 2008 – November 30, 2013.

Stolee P (PI), Berg KO, Chesworth BM, Cook RJ, Egan MY, Heckman GA, Hirdes JP, Jaglal SB, Zhu M. Building capacity in community care by leveraging the value of information exchange. Canadian Institutes of Health Research, Knowledge Translation Supplement, \$90,373, June 1, 2011 – May 31, 2012.

Raina P, Wolfson C, Kirkland S et al. CLSA Phase III: initial tracking and comprehensive cohorts. Canadian Institutes for Health Research, Canadian Longitudinal Study on Aging, \$24,220,000, January 1, 2009 – March 31, 2015.

¹⁴Sub-Agreement between Wayne State University (where the full NIH Award of \$494,128 USD is held by Dr. Sandra Jacobson) and the University of Waterloo.

Stolee P (PI), Berg KO, Byrne K, Chesworth BM, Cook RJ, Egan MY, Hirdes JP, Jaglal SB, Poss JW, Wells J, Zhu M. Enhancing homecare rehabilitation through better use of health information. Canadian Institutes for Health Research, Operating Grant, \$324,197, January 1, 2008 – September 30, 2010.

Giangregorio L (PI), McIlroy B, Papaioannou A, Adachi J, Thabane L, Cook RJ (Co-I). Walking competency in ambulatory individuals living in long-term care. RBJ Schlegel - UW Research Institute for Aging, \$10,000, 2006.

Stolee P (PI), Berg KO, Borrie KJ, Chesworth BM, Cook RJ, Egan MY, Hirdes, JP, Jaglal SB, Joiner IC, Mckillop I, Wells J, Zhu Mu. InfoRehab: Better information for better MSK health and quality of life for older persons. Canadian Institutes for Health Research Institute, Team Planning & Dev. Grants – Developing New Res. Teams to Enhance Quality of Life, \$100,000, October 1, 2005 – September 30, 2006.

Stolee P, Hirdes J, Cook RJ (Co-I). The service needs of homecare clients who are visually impaired. EA Baker Foundation, \$40,000, 2005–2006.

TRAINING GRANTS

Cook RJ (PI) and Pond G (PI). Biostatistics Training Initiative (Version 2 of the Oncology Research and Methods Training Program). Ontario Institute for Cancer Research, \$1,055,000, April 1, 2016 – March 31, 2020.

Cook RJ (PI), Boutros P, Cotton C, Ding K, Meyer R, Xu W. Oncology Research and Methods Training Program (bridge grant). High Impact Clinical Trials Program, Ontario Institute for Cancer Research, \$263,447, April 1, 2014 – March 31, 2016.

Cook RJ (PI), Boutros P, Cotton C, Ding K, Meyer R, Xu W. Oncology Research and Methods Training Program. High Impact Clinical Trials Program, Ontario Institute for Cancer Research, \$760,974, March 1, 2011 – March 31, 2014.

Cook RJ (PI), Cotton C, Ding K, Meyer R, Xu W. Oncology Research and Methods Training Program (interim grant). High Impact Clinical Trials Program, Ontario Institute for Cancer Research, \$92,500, April 1, 2010 – February 28, 2011.

CLINICAL TRIAL GRANTS

Eikelboom JW (PI), Heddle NM (PI), Arnold DM, Cook RJ, Cooper DJ, Crowther MA, Devereaux PJ, Gallus A, Kurz A, Phillips LE, Roxby D, Sessler DI, Sobieraj-Teague M, Warkentin TE, Webert KE. Informing Fresh versus Old Red Cell Management (INFORM): A large simple phase III randomized controlled trial. Canadian Institutes of Health Research, Clinical Trials Grant, \$1,606,294, April 1, 2012 – March 31, 2016.

Eikelboom JW (PI), Heddle NM (co-PI), Arnold DM, Cook RJ, Cooper DJ, Crowther MA, Devereaux PJ, Gallus A, Kurz A, Phillips LE, Roxby D, Sessler DI, Sobieraj-Teague M, Warkentin, TE, Webert KE. Informing fresh versus old red cell management (INFORM): A large simple phase III randomized controlled trial. Canadian Institutes of Health Research, Strategy on Patient Oriented Research (SPOR) Priority Announcement, \$100,000, October 1, 2011 – September 30, 2012.

Eikelboom JW (PI), Heddle NM (co-I), Arnold DM, Cook RJ, Crowther MA, Warkentin TE, Webert KE. Effect of transfusing fresh versus standard issue red cells on in-hospital mortality: a pilot randomised controlled trial using a pragmatic approach. Canadian Institutes of Health Research, Operating Grant, \$155,465, October 1, 2010 – March 31, 2012.

Eikelboom J (PI), Cook RJ, Heddle N (Co-I). Red Cell Transfusion and In-hospital Mortality: Impact of Age of Red Cells and ABO Blood Group. Canadian Institutes for Health Research, Operating Grant, \$221,576, October 1, 2009 – September 30, 2012.

Rob Coleman (PI), Cook RJ (Co-I) plus 5 other Co-Investigators, Marker tailored use of bisphosphonate therapy in breast cancer patients with bone metastases (BISMARCK). Medical Research Council (United Kingdom) and Novartis Pharmaceuticals Inc., \$180,000, 2005–2009.

Barrett-Lee P (PI) and Murray N (PI), Cook RJ (Co-I) et al. Marker tailored use of Zoledronic acid therapy in prostate cancer patients with bone metastases (ZICE). Medical Research Council (United Kingdom), Roche, Novartis, approx: \$180,000, 2005–2008.

Heddle NM, Cook RJ and Tinmouth A. A platelet dose pilot study. Canadian Blood Services, Ottawa, \$419,930, 2003–2007.

Heddle NM, Webert K, Cook RJ, Lipton J, Couban S and Blajchman MA. The effect of maintaining an increased hemoglobin concentration on the frequency of bleeding in thrombocytopenic patients: a randomized single blind controlled trial (Pilot). Canadian Blood Services Intramural Grants Competition, \$89,000, 2002–2005.

INFRASTRUCTURE GRANTS

Ghods A, Cook RJ and Chernoui S. Data analytics and computational biostatistics, Canadian Foundation for Innovation, John R. Evans Leaders Fund, \$207,103, 2014.

Ghods A, Cook RJ and Chernoui S. Data analytics and computational biostatistics, Canadian Foundation for Innovation, Ontario Research and Development Program, \$207,103, 2014.

Raina P (Lead PI), Wolfson C, Kirkland S (Co-PI), Penning M, Tuokko H, Payette H, Chappell N, Wister A, Shannon H, Chambers L, Menec V, Patterson C, Hogan D, Mugford G, Bergman H, Cynader M, Cook RJ, Balion C, Kobor H, Hepple R. et al. Canadian longitudinal study on aging: understanding the complexity of aging health through interdisciplinary research. Canadian Foundation for Innovation, New Initiatives Fund 2009, \$10,215,493, May 2009 – April 2014.

Cook RJ. Statistical Methods for Health Research. Canadian Foundation for Innovation, Canada Research Chairs Infrastructure Fund, \$142,792, April 1, 2005 – October 31, 2006.

Cook RJ. Statistical Methods for Health Research. Canadian Foundation for Innovation, Ontario Research and Development Program, \$142,792, April 1, 2005 – October 31, 2006.

Chipman HA (PI), Cook RJ (Co-I) with several other faculty. Equipment Grant. Natural Sciences and Engineering Research Council, \$45,000, 2001.

Oldford RW (PI), Cook RJ (Co-I) with several other faculty. Natural Sciences and Engineering Research Council, \$48,483, 1996.

WORKSHOP GRANTS

Chandran V (PI), Gladman DD (Co-PI), Cook R (Co-PI). Strategies to Identify Genetic Variants Underlying Psoriatic Arthritis Severity. The Arthritis Society - Small Meeting Grant Competition, \$5,000, April 2012.

Cook RJ, Marriott P, Matthews DE, Wu C (Chair) and Yi GY. Foundations and Frontiers: A Workshop on Recent Advances in Statistical Sciences. Fields Institute, \$7,500, October 28–29, 2011.

Cook RJ and Lawless JF. Workshop on the Analysis of Survival and Event History Data. Centre de Recherches Mathématiques, \$30,000, May 16–19, 2011.

Cook RJ and Lawless JF. Workshop on the Analysis of Survival and Event History Data. Fields Institute, \$15,000, May 16–19, 2011.

Cook RJ (Chair), KS Brown, Marriott P, DL McLeish, Struthers CA, GY Yi. Statistical methods and life history analysis. Fields Institute, \$7,500, May 20–21, 2010.

Abraham B, Cook RJ, Lawless JF, Panjer HH, Matthews DE, Thompson ME. Statistical Science: Present Perspective and Future Prospects: A Meeting in Celebration of the 40th Anniversary of the Department of Statistics and Actuarial Science, University of Waterloo. GlaxoSmithKline, \$2,500, May 30 – June 1, 2007.

Cook RJ, Lou W, Song P, Stafford J. Methodological Challenges in Public Health Research, Fields Institute. GlaxoSmithKline, \$5,000, 2006.

McLeish DL and Cook RJ (Co-Chairs). Workshop on Missing Data Problems, Fields Institute. Fields Institute, \$10,000; GlaxoSmithKline, \$5,000, 2004.

Cook RJ and Lawless JF (Organizers), Workshop on Event History Analysis, CRM Montreal. Medical Research Council of Canada, \$5,000; Centre de Recherches Mathématiques, \$22,000, 1998.

INDUSTRIAL GRANTS AND CONTRACTS

Cook RJ. PSA dynamics in relation to the time of bone metastases in prostate cancer. University of Pennsylvania Medical Center, \$15,000, 2010.

Cook RJ. Risk factors disease progression and death in prostate cancer. University of Pennsylvania Medical Center, \$20,000, 2009 – 2010.

Gladman DD, Chandran V, Cook RJ, Blair J and Lapp V. Evaluating disease activity in psoriatic arthritis: imaging versus clinical examination. AMGEN, \$30,000, 2009 – 2010.

Cook RJ (UW-PI) and Heddle NM (McMaster-PI) Analysis of a platelet pathogen inactivation transfusion medicine randomized trial. CaridianBCT (U.S.), USD\$155,000, December 1, 2008 – December 31, 2011.

Cook RJ (UW-PI) and Warkentin T (McMaster-PI). PF4/Heparin reactive antibodies in the Matisse-DVT trial. GlaxoSmithKline (U.S.), USD\$25,000, 2007 – 2014.

Cook RJ (UW-PI) and Warkentin T (McMaster-PI). PF4/Heparin Reactive antibodies in the Matisse-PE trial. GlaxoSmithKline (U.S.), USD\$25,000, 2007 – 2014.

- Warkentin T and Cook RJ (PI) Seroconversion following heparin injection following orthopedic surgery. GlaxoSmithKline (U.S.), USD\$20,000, 2006.
- Cook RJ (PI). Bone Metastases in Prostate Cancer. Abbott Pharmaceuticals (U.S.), USD\$75,000, 2005.
- Cook RJ (PI). Natural History of Cancer Patients with Bone Metastases. Novartis Pharmaceuticals (U.S.), USD\$29,400, 2005.
- Cook RJ (PI). Models for Markers of Bone Formation and Resorption in Patients with Bone Metastases. Novartis Pharmaceuticals (U.S.), USD\$43,000, 2003.
- Cook RJ (PI). Models for Markers of Bone Formation and Resorption in Patients with Bone Metastases. Novartis Pharmaceuticals (U.S.), USD\$46,000, 2002–2003.
- Cook RJ (PI). Multiple Events Analyses in Patients with Bone Metastases. Novartis Pharmaceuticals (U.S.), USD\$23,000, 2001.
- Chipman HA (PI), Cook RJ (Co-I). Identification of Responders for Marketing of Credit Cards. Royal Bank of Canada, \$18,000, 1999–2000.
- Cook RJ and Major P (PI). Assessing the Therapeutic Effect of Aredia in Randomized Trials of Patients with Breast Cancer Metastatic to Bone. Novartis Pharmaceuticals (U.S.), USD\$17,160, 1999–2000.
- Cook RJ and Major P (PI). Assessing the Therapeutic Effect of Aredia in Randomized Trials of Patients with Breast Cancer Metastatic to Bone. Novartis Pharmaceuticals (U.S.), \$22,360, 1999–2000.
- Cook RJ (PI). Bootstrapping and Cost-Effectiveness Data. Bayer Canada, \$9,500, 1997–1998.
- Cook RJ (PI). Construction of a Global Test Statistic for QOL Outcomes in CHEST. Bayer Canada, \$2,000, 1996.
- Cook RJ (PI). Cost-Effectiveness of Ciprofloxacin on the Treatment of Chronic Bronchitis. Bayer Canada, \$13,000, 1996.
- Cook RJ (PI). Modelling Treatment Effects in a Prospective Study of Chronic Bronchitis. Bayer Canada, \$12,000, 1995–1996.
- Cook RJ (PI). Ciprofloxacin versus Placebo for Urinary Tract Infections. Myles Canada, \$16,000, 1992.

OTHER FUNDS

Program Committee (Abrahamowicz M, Cook RJ (Lead), Gustafson P, Lou W, Song P, Wang L). Statistical Innovations for Public Health Research in Canada. National Program on Complex Data Structures, \$60,000, 2007–2008.

PUBLICATIONS

BOOKS

- Cook RJ and Lawless JF. *Multistate Models for the Analysis of Life History Data*. 2018, CRC Press, Boca Raton, FL.
- Cook RJ and Lawless JF. *The Statistical Analysis of Recurrent Events*. 2007, Springer. New York, NY.

REFEREED JOURNAL PUBLICATIONS

† denotes a trainee

- Eder L, Lee K-A, Chandran V, Widdifield J, Drucker AM, Ritchlin C, Rosen CF, Cook RJ, Gladman DD. Derivation of a psoriatic arthritis risk estimation tool (PRESTO): a step towards prevention. (2023, 24 pages, *Arthritis and Rheumatology* - in press).
- Dang K-D, Ryan LM, Akkaya-Hocagil T[†], Cook RJ, Richardson GA, Day NL, Coles CD, Carmichael Olson H, Jacobson SW, Jacobson JL. Bayesian structural equation modeling for data from multiple cohorts: application to a meta-analysis of the effect of pre-natal alcohol on child cognition. (2023, *Australian and New Zealand Journal of Statistics* - in press).
- Boher JM, Filleron T, Bunouf P and Cook RJ. New late-emphasis and combination tests based on infimum and supremum logrank statistics with application in oncology trials. *Statistics in Medicine*, 2023, 42(12), 1981–1994.
- Bühler A[†], Cook RJ and Lawless JF. Multistate models as a framework for estimand specification in clinical trials of complex processes. *Statistics in Medicine*, 2023, 42(9), 1368–1397.
- Cuerden M[†], Diao L, Cotton CA and Cook RJ. Doubly weighted mean score estimating functions with a partially observed effect modifier. *Communications in Statistics: Theory and Methods*, published online on January 19, 2023. <https://doi.org/10.1080/03610926.2023.2166790>
- Dang K-D, Ryan LM, Cook RJ, Akkaya-Hocagil T[†], Jacobson SW, Jacobson JL. Bayesian outcome selection modeling. *STAT*, 2023, 12(1), e568. DOI: [10.1002/sta4.568](https://doi.org/10.1002/sta4.568)

- Eder L, Croxford R, Drucker A, Mendel A, Kuriya B, Touma Z, Johnson S, Cook R, Bernatsky S, Haroon N, Widdifield J. Understanding COVID-19 risk in patients with immune mediated inflammatory diseases: A population-based analysis of SARS-CoV-2 testing. *Arthritis Care and Research*, 2023, 75(2), 317–325.
- Gohari MR, Taylor M, MacKinnon MC, Panagiotoglou D, Kaplan GG, Galanis GG, Cook RJ, Patric DM, Ethelberg S and Majowicz SE. Patterns of enteric infections in a population-wide cohort study of sequelae, British Columbia, Canada. *Epidemiology and Infection*, 2023, 151, E7. DOI: [10.1017/S0950268822001911](https://doi.org/10.1017/S0950268822001911)
- Mao F[†] and Cook RJ. Two-phase designs with current status data. *Statistics in Medicine*, 2023, 42(8), 1207–1232.
- Perera S, Cook RJ, Lee K-A, Katz P, Touma Z. Intraindividual change in cognitive function among adults with systemic lupus erythematosus: A Markov analysis over 7 years. *ACR Open Rheumatology*, 2023, 5(3), 124–131. DOI: [10.1002/acr2.11529](https://doi.org/10.1002/acr2.11529)
- Rida M-A, Lee K-A, Chandran V, Cook RJ, Gladman DD. Persistence of biologics in the treatment of psoriatic arthritis: Data from a large hospital based longitudinal cohort. *Arthritis Care & Research*, published online on March 13, 2023. <https://doi.org/10.1002/acr.25112>
- Akkaya-Hocagil T[†], Ryan LM, Cook RJ, Jacobson SW, Richardson GA, Day NL, Coles CD, Carmichael Olson H, Jacobson JL. A hierarchical meta-analysis for settings involving multiple outcomes across multiple cohorts. *STAT*, 2022, 11(1), e462. DOI: [10.1002/sta4.462](https://doi.org/10.1002/sta4.462)
- Cheung LC, Albert PS, Das S, Cook RJ. Multistate models for the natural history of cancer progression. *British Journal of Cancer*, 2022, 127, 1279–1288.
- Cook RJ and Lawless JF. Life history analysis with multistate models: a review and some current issues. *Canadian Journal of Statistics: Special Issue – 50th Anniversary of CJS*, 2022, 50(4), 1270–1298.
- Cook RJ, Lawless JF, Xie B[†]. Marker-dependent observation and carry-forward of internal covariates in Cox regression. *Lifetime Data Analysis: Special Issue Dedicated to David Oakes*, 2022, 28(4), 560–584.
- Cook RJ, Lee K-A, Lo B, MacDonald RL. Classical regression and predictive modeling. *World Neurosurgery*, 2022, 161, 251–264.
- Colaço K, Lee K-A, Akhtari S, Winer R, Welsh P, Sattar N, McInnes I, Chandran V, Harvey P, Cook RJ, Gladman D, Piguat V, Eder L. Association of cardiac biomarkers with cardiovascular outcomes in patients with psoriatic arthritis and psoriasis: a longitudinal cohort study. *Arthritis & Rheumatology*, 2022, 74(7), 1184–1192.
- Cuerden M[†], Diao L, Cotton CA and Cook RJ. Doubly weighted estimating equations and weighted multiple imputation for causal inference with an incomplete subgroup variable. *Biostatistics and Epidemiology*, 2022, 6(2): Special Issue on Causal Inference, 266–284.
- Diao L and Cook RJ. Nested doubly robust estimating equations for causal analysis with an incomplete effect modifier. *Canadian Journal of Statistics*, 2022, 50(3), 776–794.
- Eder L, Croxford R, Drucker AM, Mendel A, Kuriya B, Touma Z, Johnson SR, Cook R, Bernatsky S, Haroon N, Widdifield J. COVID-19 hospitalizations, intensive care unit stays, ventilation and death among patients with immune mediated inflammatory diseases compared to controls. *Journal of Rheumatology*, 2022, 49(5), 523–530.
- Jiang S and Cook RJ. The polytomous discrimination index for prediction involving multistate processes under intermittent observation. *Statistics in Medicine*, 2022, 41(19), 3661–3678.
- Kaur MN, Arnold DM, Heddle NM, Cook RJ, Hsia C, Blostein M, Jamula E, Sholzberg M, Lin Y, Kassis J, Larratt L, Tinmouth A, Carruthers J, Li N, Lui Y, Kelton JG, Xie F. Cost-effectiveness of eltrombopag versus intravenous immunoglobulin for the perioperative management of immune thrombocytopenia. *Blood Advances*, 2022, 6(3), 785–792.
- Koppikar S, Colaço K, Harvey P, Akhtari S, Chandran V, Gladman DD, Cook RJ, Eder L. Incidence of and risk factors for heart failure in patients with psoriatic disease: a cohort study. *Arthritis Care and Research*, 2022, 74(8), 1244–1253.
- Kwok TSH, Sutton M, Cook RJ, Pereira D, Chandran V, Gladman DD. Musculoskeletal surgery in psoriatic arthritis: prevalence and risk factors. *Journal of Rheumatology*, 2023, 50(4): 497–503.
- Kwok TSH, Sutton M, Pereira D, Cook RJ, Chandran V, Haroon N, Inman RD, Gladman DD. Isolated axial disease in psoriatic arthritis and ankylosing spondylitis with psoriasis. *Annals of the Rheumatic Diseases*, 2022, 81(12), 1678–1684. (Editor's Choice of August).
- Mao F[†] and Cook RJ. Spatial dependence modeling of latent susceptibility and time to joint damage in psoriatic arthritis. *Biometrics*, published online on October 13, 2022. <https://doi.org/10.1111/biom.13770>
- Sarabia S, Farrer C, Yeung J, Jerome D, Cook RJ and Eder L. Comparative efficacy of different triage methods for psoriatic arthritis: prospective study in a rapid access clinic. *Arthritis Care and Research*, 2022, 74(8), 1254–1262.

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Wu Y[†] and Cook RJ. Assessing the accuracy of predictive models with interval-censored data. *Biostatistics*, 2022, 23(1), 18–33. DOI: [10.1093/biostatistics/kxaa011](https://doi.org/10.1093/biostatistics/kxaa011)

Yang C[†], Diao L, Cook RJ. Adaptive response-dependent two-phase designs: some results on robustness and efficiency. *Statistics in Medicine*, 2022, 41(22), 4403–4425.

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Andersen PK, Perme MP, van Houwelingen HC, Cook RJ, Joly P, Martinussen T, Taylor JMG, Abrahamowicz M, Therneau TM for the STRATOS TG8 topic group. Analysis of time-to-event for observational studies: Guidance to the use of intensity models. *Statistics in Medicine*, 2021, 40(1), 185–211.

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Cola o K, Lee K-A, Akhtari S, Winer R, Welsh P, Sattar N, McInnes IB, Chandran V, Harvey P, Cook RJ, Gladman DD, Piguet V, Eder L. Targeted metabolomic profiling and prediction of cardiovascular events: a prospective study of patients with psoriatic arthritis and psoriasis. *Annals of the Rheumatic Diseases*, 2021, 80(11), 1429–1435.

Cook RJ and Lawless JF. Independence conditions and the analysis of life history studies with intermittent observation. *Biostatistics*, 2021, 22(3), 455–481. DOI: [10.1093/biostatistics/kxz047](https://doi.org/10.1093/biostatistics/kxz047)

Damian AC, Cola o K, Rohekar S, Chandran V, Gladman DD, Cook RJ, Eder L. The incidence and risk factors for venous thromboembolic events in patients with psoriasis and psoriatic arthritis. *Seminars in Arthritis and Rheumatism*, 2021, 51(3), 547–552.

Feld J, Ye JY, Chandran V, Inman RD, Haroon N, Cook RJ, Gladman DD. Axial disease in psoriatic arthritis: The presence and progression of unilateral grade 2 sacroiliitis in a psoriatic arthritis cohort. *Seminars in Arthritis and Rheumatism*, 2021, 51(2), 464–468.

Gladman DD, Ye JY, Chandran V, Lee K-A and Cook RJ. Oligoarticular versus polyarticular psoriatic arthritis: a longitudinal study showing similar characteristics. *Journal of Rheumatology*, 2021, 48(12), 1824–1829. (Editor's Picks of the Month)

Gohari MR, Cook RJ, Dubin JA, Leatherdale ST. The impact of an alcohol policy change on developmental trajectories of youth alcohol use: examination of a natural experiment in Canada. *Canadian Journal of Public Health*, 2021, 112, 210–218.

Jacobson JJ, Akkaya-Hocagil T[†], Ryan LM, Dodge NC, Richardson GA, Olson HC, Coles CD, Day NL, Cook RJ, Jacobson SW. Effects of prenatal alcohol exposure on cognitive and behavioral development: findings from a hierarchical meta-analysis of data from six prospective longitudinal U.S. cohorts. *Alcoholism: Clinical and Experimental Research*, 2021, 45(1), 2040–2058.

Jiang Y, Chiu C-Y, Yan Q, Chen W, Gorin MB, Conley YP, Lakhali-Chaieb ML, Cook RJ, Amos CI, Wilson AF, Bailey-Wilson JE, McMahon FJ, Vazquez AI, Yuan A, Zhong X, Xiong M, Weeks DE, Fan R. Gene-based association testing of dichotomous traits with generalized functional linear mixed models using extended pedigrees: applications to age-related macular degeneration. *Journal of the American Statistical Association*, 2021, 116(534), 531–545.

Lee J[†] and Cook RJ. The illness-death model for family studies. *Biostatistics*, 2021, 22(3), 482–503. DOI: [10.1093/biostatistics/kxz048](https://doi.org/10.1093/biostatistics/kxz048)

Polachek A, Muntyanu A, Lee K-A, Ye JY, Chandran V, Cook RJ, Gladman DD. Malignancy in psoriatic disease: results from prospective longitudinal cohorts. *Seminars in Arthritis and Rheumatism*, 2021, 51(1), 144–149.

Sarabia S, Farrer C, Yeung J, Jerome D, Lee K-A, Cook RJ, Eder L. The pattern of musculoskeletal complaints in patients with suspected psoriatic arthritis and their correlation with physical examination and ultrasound. *Journal of Rheumatology*, 2021, 48(2), 214–221. (Editor's Picks of the Month)

Stolee P, Elliott J, Giguere AMC, Mallinson S, Rockwood K, Gould JS, Baker R, Boscart V, Burns C, Byrne K, Carson J, Cook RJ, Costa AP, Giosa J, Grindrod K, Hajizadeh M, Hanson HM, Hastings S, Heckman G, Holroyd-Leduc J, Isaranuwatthai W, Kuspinar A, Meyer S, McMurray J, Puchyr P, Theou O, Witterman H. Transforming primary care for older Canadians living with frailty: mixed methods study protocol for a complex primary care intervention. *BMJ Open*, 2021, 11 (5), e042911. DOI: [10.1136/bmjopen-2020-04291](https://doi.org/10.1136/bmjopen-2020-04291)

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Yang C[†], Diao L and Cook RJ. Survival trees for current status data. Proceedings of AAAI Spring Symposium on Survival Prediction - Algorithms, Challenges and Applications, 2021, PMLR 146, 83–94. <http://proceedings.mlr.press/v146/yang21a.html>

Zhang B, Chiu C-Y, Yuan F, Sang T, Cook RJ, Wilson AF, Bailey-Wilson JE, Chew EY, Xiong M, Fan R.¹⁵ Gene-based analysis of bi-variate survival traits via functional regressions with applications to eye diseases. *Genetic Epidemiology*, 2021, 45(5), 455–470.

Zhong Y and Cook RJ. Selection models for efficient two-phase design of family studies. *Statistics in Medicine*, 2021, 40(2), 254–270. DOI: [10.1002/sim.8772](https://doi.org/10.1002/sim.8772)

Zhong Y and Cook RJ. Semiparametric recurrent event vs time-to-first-event analyses in randomized trials: Estimands and model misspecification. *Statistics in Medicine*, 2021, 40(16), 3823–3842. DOI: [10.1002/sim.9002](https://doi.org/10.1002/sim.9002)

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Abji F, Ye JY, Cook RJ, Oikonomopoulou K, Chandran V. The association between synovial fluid serine proteinase activity and response to intra-articular corticosteroid injection in psoriatic arthritis. *Clinical Rheumatology*, 2020, 39(8), 2355–2361.

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Feld J, Ye JY, Chandran V, Inman RD, Haroon N, Cook RJ, Gladman DD. Is axial psoriatic arthritis distinct from ankylosing spondylitis with and without concomitant psoriasis? *Rheumatology*, 2020, 59(6), 1340–1346.

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Jiang S[†], Cook RJ and Zeng L. Mitigating bias from intermittent measurement of time-dependent covariates in failure time analysis. *Statistics in Medicine*, 2020, 39(13), 1833–1845. DOI: [10.1002/sim.8517](https://doi.org/10.1002/sim.8517)

Jiang S[†] and Cook RJ. Composite likelihood for aggregate data from clustered multistate processes under intermittent observation. *Communications in Statistics: Theory and Methods*, 2020, 49(12), 2913–2930. DOI: [10.1080/03610926.2019.1584310](https://doi.org/10.1080/03610926.2019.1584310)

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- Ng ETM[†] and Cook RJ. Alternating Renewal Processes with Bivariate Random Effects for Chronic Diseases. *Technical Report No. 5 : Department of Statistics and Actuarial Science, University of Waterloo, 1996.*
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PRESENTATIONS

INVITED PRESENTATIONS

Cook RJ and Lawless JF. Causal inference and life history analysis. The 16th International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics 2023), HTW Berlin, University of Applied Sciences, Berlin, Germany. December 16–18. 2023.

Cook RJ. TBD. Distinguished Lecture, Department of Mathematics and Statistics, University of Windsor, Windsor, Ontario. November 3, 2023.

Cook RJ. NHLBI Biostatistics Workshop on Clinical Trial Designs: Innovative Endpoints and Futility Monitoring NIH Campus, Bethesda, Maryland. September 18–19. 2023.

Cook RJ, Xianwei Li[†] and Liqun Diao. Variable selection and prediction with multistate disease processes under intermittent observation 2023 Joint Statistical Meetings, Toronto, Ontario, August 5–10, 2023.

Cook RJ. Methodological considerations concerning the study of chronic disease processes with administrative data **Keynote Presentation**. 2023 Canadian Society of Epidemiology and Biostatistics, Halifax, Nova Scotia, June 26–28, 2023.

Cook RJ. Statistical considerations in defining estimands in randomized trials of complex disease processes. 2023 PHUSE Meeting on *Advancing patient insight and clinical development using novel approaches and technological advancements in pharmaceutical analytical data sciences*, Mississauga, Ontario, June 8, 2023.

Cook RJ. Mitigating bias from marker-dependent observation times for internal covariates in Cox regression. 2023 Canadian Mathematical Sciences Conference, Ottawa, Ontario, June 2–5, 2023.

Cook RJ. Discussant of Session on Estimands in the Pharmaceutical Industry, 2023 Lifetime Data Science Conference, Raleigh, North Carolina, May 31–June 2, 2023.

Cook RJ and Mao F[†]. Studying disease progression using multiple disease registries with different truncation schemes. 2023 Lifetime Data Science Conference, Raleigh, North Carolina, May 31–June 2, 2023.

Cook RJ. Estimands in clinical trials with complex life history processes 2023 Annual UPENN Statistical Issues in Clinical Trials Conference. University of Pennsylvania, Philadelphia, Pennsylvania, April 17, 2023.

Cook RJ. Defining and addressing dependent observation schemes in life history studies. Statistics Seminar, Department of Biostatistics, School of Public Health, Brown University, Providence, RI, October 24, 2022.

Cook RJ. Strategic planning and management of your academic career in the statistical sciences. **Keynote Presentation**. Third Waterloo Student Conference in Statistics, Actuarial Science and Finance, University of Waterloo, Waterloo, Ontario, October 14–15, 2022.

Cook RJ. Statistical challenges in population, clinical and laboratory COVID-19 research. **Keynote Presentation**. 2022 CANSSI Ontario Research Day, Toronto, Ontario, September 29, 2022.

Mao F[†] and Cook RJ. Spatial dependence modeling of latent susceptibility and time to joint damage in psoriatic arthritis. 2022 Joint Statistical Meetings, Washington, D.C., August 6–11, 2022.

Cook RJ and Lawless JF. Analysis of life history data obtained from biased sampling and observation schemes. 2022 Annual Meeting of the Statistical Society of Canada (Online), Vancouver, British Columbia, May 28–June 2, 2022.

- Cook RJ. Strategic planning and management of your academic career in Biostatistics. International Biometrics Society, Mentoring Program (Online), December 15, 2021.
- Cook RJ. Classical regression versus predictive inference. Annual PsA Program Virtual Meeting, Toronto, Ontario, October 14, 2021.
- Cook RJ. Cox regression with dynamic markers measured at covariate-dependent visit times. Department of Mathematics and Statistics, McMaster University, October 5, 2021.
- Cook RJ. Two phase response-dependent sampling for studies of life history processes. **Keynote Presentation**. 13th Virtual Conference of the Italian Region of the International Biometric Society (IBS), Università Milano-Bicocca, Bicocca, Italy, September 20, 24, 29, 2021.
- Cook RJ and Xie B[†]. Cox regression with dynamic markers measured at covariate-dependent visit times. ICSA 2021 Applied Statistics Symposium (Online), September 12–15, 2021.
- Cook RJ. Robustness and efficiency in two-phase designs of biomarker studies. **Keynote Presentation**. 6th Canadian Conference in Applied Statistics (Online), Montreal, Quebec, July 15–18, 2021.
- Cook RJ. The causal challenge from intercurrent events in randomized trials. Canadian statisticians and collaborative research: 2020 and beyond. PSI Conference 2021 (Online), June 21–23, 2021.
- Cook RJ. The impact of risk-free periods in the analysis of recurrent events. INSERM Workshop 261: Recent Advances in Statistical Analysis of Survival Data (Online), Bordeaux, France, May 25–28, 2021.
- Cook RJ. Defining and avoiding collider bias in health research. Bombardier Rheumatology Research Rounds (Online), University Health Network, Toronto, Ontario, May 3, 2021.
- Cook RJ. Defining and addressing dependent observation schemes in life history studies. Spring 2021 Biostatistics Online Seminar, Department of Biostatistics, University of North Carolina at Chapel Hill, NC, April 15, 2021.
- Cook RJ. Challenges in causal inference with survival and life history processes. Novartis AMDS Science Virtual Conference, Basel, Switzerland, March 3, 2021.
- Cook RJ. Defining and addressing dependent observation schemes in life history studies. National Cancer Institute - Biostatistics Branch, National Institutes of Health, Bethesda, Maryland, January 6, 2021.
- Yang C[†], Diao L, Cook RJ. Regression trees for interval-censored data. ICSA 2020 Applied Statistics Symposium (Online), Houston, Texas, December 13–16, 2020.
- Cook RJ. Some challenges and approaches to causal inference with life history processes. International Society for Clinical Biostatistics (ISCB), 41 Kraków 2020 Virtual Conference, Kraków, Poland, August 23–27, 2020.
- Cook RJ. COVID-19: Remarks on modeling outbreaks and pandemics. STEM Cluster for Global Resilience, Balsillie School of International Affairs, Waterloo, Ontario, April 23, 2020.
- Cook RJ. Two-phase study design for censored life history processes. ENAR 2020 Spring Virtual Meeting, Nashville, TN, March 22–25, 2020.
- Cook RJ. Dependent selection and observation schemes in life history studies. **Keynote Presentation**. Australasian Region Conference of the International Biometric Society, Adelaide, South Australia, December 3, 2019.
- Cook RJ. Defining and addressing dependent observation schemes in life history studies. Department of Statistics, George Mason University, Fairfax, Virginia, November 22, 2019.
- Cook RJ. Defining and addressing dependent observation schemes in life history studies. Center for Clinical Epidemiology and Biostatistics, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA, November 5, 2019.
- Cook RJ. Recurrent event analysis yielding estimands with a causal interpretation. The VI International Symposium on Biopharmaceutical Statistics, Kyoto, Japan, August 26–30, 2019.
- Cook RJ. Longitudinal data II: mixed effects and marginal methods. Health Statistics Summer School, Concordia University, Montreal, Quebec, July 8–12, 2019.
- Cook RJ. Defining and addressing dependent observation schemes in life history studies. **Invited Keynote Lecture for the Scandinavian Journal of Statistics**, 7th Nordic-Baltic Biometric Conference, Vilnius, Lithuania, June 3–5, 2019.
- Cook RJ. Discussant of session on Recent Advances in Bivariate Survival Data. 2019 Conference on Lifetime Data Science, University of Pittsburgh, Pennsylvania, May 30, 2019.
- Lawless JF and Cook RJ. Consequences of dependent observation schemes in life history studies: Dependent loss to followup. University of Calgary, Calgary, Alberta, April 9, 2019.
- Cook RJ and Lawless JF. Consequences of dependent observation schemes in life history studies: Dependent intermittent observation schemes. University of Calgary, Calgary, Alberta, April 9, 2019.
- Cook RJ and Lawless JF. Independence conditions and intermittent observation in life history studies. 2018 Joint Statistical Meetings, Vancouver, British Columbia, July 28–August 2, 2018.

- Cook RJ, Moon N[†] and Zeng L. Response-dependent sampling and tracing in cohort studies of chronic disease. XXIXth International Biometric Conference, International Biometric Society, Barcelona, Spain, July 8–13, 2018.
- Cook RJ. Exploiting auxiliary data in the design and analysis of family studies. 2018 ICSA China Conference with the Focus on Data Science, Qingdao, Shangdong, China, July 2–5, 2018.
- Cook RJ and Zhong Y[†]. Copula-based models for testing genetic effects in family studies: efficient sampling schemes and analysis. ICSA 2018 Applied Statistics Symposium, New Brunswick, NJ, June 14–17, 2018.
- Cook RJ. Observation of life history processes: independence and ignorability condition. **Keynote Presentation**. Statistical Analyses of Multi-Outcome Data Workshop 2018, Washington University, St. Louis, MO, June 11–12, 2018.
- Cook RJ. Dependent selection and observation schemes in life history studies. **Gold Medal Address**. Statistical Society of Canada, Montreal, Quebec, June 3–6, 2018.
- Cook RJ. Assessing exposure effects in transfusion medicine - challenges and methods for dealing with them. Research Seminar Series, TerumoBCT, Denver, Colorado, April 17, 2018.
- Cook RJ and Zhong Y[†]. Marginal and partially conditional analysis of recurrent data in clinical trials. **Keynote Presentation**. Eighth International French Society of Statistics Meeting on Statistical Methods in Biopharmacy. Paris, France, September 14–15, 2017.
- Cook RJ and Zhong Y[†]. Modeling within-family dependence in disease onset times with biased samples by design. Frontiers of Big Data and Statistical Sciences, Vancouver, British Columbia, August 18–20, 2017.
- Lee JY[†] and Cook RJ. Bias in rate-based analysis of recurrent exacerbations due to symptom duration. Novartis Seminar, Basel, Switzerland, July 5, 2017.
- Cook RJ. Issues in the design and analysis of Phase III cancer clinical trials with composite endpoints. Novartis Seminar, Basel, Switzerland, July 5, 2017.
- Cook RJ. Selection models for enhancing power of tests of genetic associations in family studies. 2017 ICSA Applied Statistics Symposium, Chicago, Illinois, June 24 – June 28, 2017.
- Cook RJ, Moon N[†] and Zeng L. The utility of tracing studies in cohorts with loss to follow-up. Biometrics Conference (ENAR), Washington, D.C., March 12–15, 2017.
- Cook RJ. Statistical challenges in joint modeling and competing risks in cancer clinical trials. **CANSSI Distinguished Lecture**. Department of Mathematics and Statistics, University of Calgary, Calgary, Alberta, February 24, 2017.
- Cook RJ. Addressing complex sampling and observation schemes in cohort studies. **The 14th Armitage Lecture**, MRC Biostatistics Unit, Cambridge Institute for Public Health, Cambridge University, U.K., November 17, 2016.
- Cook RJ. The design and robust analysis of cluster-randomized trials with right and interval-censored event times. MRC Biostatistics Unit, Cambridge Institute for Public Health, Cambridge University, U.K., November 15, 2016.
- Cook RJ. Augmented composite likelihood for the analysis of family data under biased sampling schemes. **Distinguished Yakovlev Lecture**. Department of Biostatistics and Computational Biology. University of Rochester, New York, September 15, 2016.
- Zhong Y[†] and Cook RJ. The design of cluster-randomized trials using robust methods for right and interval-censored event times. 2016 Joint Statistical Meetings, Chicago, Illinois, July 30 – August 4, 2016.
- Cook RJ. Concepts, frameworks and methods for causal inference. Computational Modeling of Demographics and Asset Prices Workshop, University of Waterloo, Waterloo, Ontario, June 22–23, 2016.
- Cook RJ. Panel discussion on research opportunities in health for the statistical sciences. 2016 Annual Meeting of the Statistical Society of Canada, St. Catherines, Ontario, May 29 – June 1, 2016.
- Boruvka A[†] and Cook RJ. Analysis of clinical trial endpoints under dual censoring. 2016 Annual Meeting of the Statistical Society of Canada, St. Catherines, Ontario, May 29 – June 1, 2016.
- Cook RJ. Statistical issues in the analysis of progression-free survival and overall survival in Phase III cancer trials. Department of Biostatistics, University of Michigan, Ann Arbor, Michigan, April 4, 2016.
- Cook RJ. Statistical issues in the interpretation of composite endpoints in phase III cancer trials. Ontario Institute for Cancer Research (OICR) - Biostatistics Training Initiative. Toronto, Ontario, April 1, 2016.
- Cook RJ. Strategic planning and management of your academic career in biostatistics. Biometrics Conference - Eastern North American Region, Austin, Texas, March 6–9, 2016.
- Cook RJ. Model-misspecification in progression-free survival analysis of cancer clinical trials. Department of Biostatistics, Institute of Basic Medical Sciences, University of Oslo, Oslo, Norway, February 19, 2016.
- Cook RJ. Statistical issues in the interpretation and analysis of endpoints in cancer clinical trials. **Distinguished Lecture**, Department of Biostatistics, MD Anderson Cancer Centre, University of Texas, Houston, Texas, February 17, 2016.

- Cook RJ. Inference about the within-family association in disease onset times under biased sampling schemes. Department of Mathematics and Statistics, Centre des recherches mathématiques Colloquium, McGill University, Montreal, Quebec, November 26, 2015.
- Cook RJ. Inference about the within-family association in disease onset times under biased sampling schemes. Department of Statistical Science, University of Toronto, Toronto, Ontario, November 19, 2015.
- Cook RJ. Launch of the Ontario Biostatistics Training Initiative for Cancer, Ontario Institute for Cancer Research, Toronto, Ontario, November 11, 2015.
- Cook RJ. Statistical issues in the interpretation and analysis of composite endpoints in cancer clinical trials. Grand Rounds, Department of Oncology, Queen's University, Kingston, Ontario, November 5, 2015.
- Cook RJ. Advancing the provincial capacity for cancer research through experiential biostatistics training. National Cancer Institute of Canada Clinical Trials Group, Kingston, Ontario, November 5, 2015.
- Cook RJ. Statistical issues in the interpretation and analysis of composite endpoints in cancer clinical trials. Joint Cancer and Clinical Epidemiology Rounds, Ottawa Health Research Institute, Ottawa, Ontario, November 5, 2015.
- Cook RJ. Advancing the provincial capacity for cancer research through experiential biostatistics training. Ottawa Health Research Institute, Ottawa, Ontario, November 5, 2015.
- Boruvka A[†] and Cook RJ. Understanding the effect of treatment on progression-free survival and overall survival. Duke-Industry Statistics Symposium, Survival Session, Duke University, Durham, NC, October 22–23, 2015.
- Cook RJ. Designing trials for rare cancers: some statistical considerations. Interaction 2015: An Integrated Industry and Academic Conference for Clinical Trials in Oncology, Toronto, Ontario, September 18–19, 2015.
- Cook RJ and Zhong Y[†]. Second-order regression models for within-family association in censored disease onset times. Department of Biostatistics, Institute of Basic Medical Sciences, University of Oslo, Oslo, Norway, August 27, 2015.
- Zhong Y[†] and Cook RJ. Second-order models of within-family association in censored disease onset times. International Symposium in Statistics, Memorial University, St. John's, Newfoundland, July 6–8, 2015.
- Cook RJ, Zhong Y[†], Lee K-A. The effect of randomized treatment on post-progression survival. 2015 IMS-China International Conference on Statistics and Probability, Kunming, Yunnan, China, July 1–3, 2015.
- Cook RJ (Keynote Address). Statistical issues in the interpretation and analysis of endpoints in cancer clinical trials. The Fifth International Biostatistics Workshop of Jilin University, Changchun, Jilin, China, June 25–26, 2015.
- Cook RJ. Adaptive clinical trials: statistical methods and practical considerations. 2015 Annual Meeting of the Statistical Society of Canada, Dalhousie University, Halifax, Nova Scotia, June 14–17, 2015.
- Cook RJ, Lee KA, Cuerden M[†], Cotton CA. Inverse weighted estimating equations for repeated measures in transfusion medicine. Biometrics Conference (ENAR), Miami, Florida, March 15–18, 2015.
- Zhong Y[†] and Cook RJ. Inference regarding within-family association in disease onset times under current status observation. Biometrics Conference (ENAR), Miami, Florida, March 15–18, 2015.
- Cook RJ, Zhong Y[†] and Diao L[†]. The Utility of Copula Models in Health Research. CRM-CANSSI Workshop on New Horizons in Copula Modeling. Centre des recherches mathématiques, Montreal, Quebec, December 15–19, 2014.
- Cook RJ and Wu Y[†]. Variable selection with interval-censored time to disease progression: identifying genetics risk factors in arthritis. Statistical Issues in Biomarker and Drug Co-development. Fields Institute, Toronto, Ontario, November 7–8, 2014.
- Cook RJ. Analysis of recurrent hospitalization and death in cardiovascular trials. Joint Statistical Meetings, Boston, Massachusetts, August 2 – 7, 2014.
- Diao L[†] and Cook RJ. Use of copulas for joint modelling of recurrent and terminal events. Joint Statistical Meetings, Boston, Massachusetts, August 2 – 7, 2014.
- Cook RJ. A copula model for marked point processes arising in transfusion medicine. Statistical Analysis of Multi-Outcome Data 2014, Cambridge University, Cambridge, United Kingdom, June 31 – July 1, 2014.
- Mclsaac M[†] and Cook RJ. Adaptive design for two-phase response-dependent sampling. 2014 Meeting of the International Chinese Statistical Association, Portland, Oregon, June 17, 2014.
- Cook RJ. Some ideas on how to succeed in an academic position. Graduate Studies and Centre for Career Action, University of Waterloo, Waterloo, Ontario, June 19, 2014.
- Cook RJ. Statistical challenges arising in transfusion research. Annual Meeting of the Statistical Society of Canada, Toronto, Ontario, May 25–28, 2014.
- Cook RJ. Multi-state analysis of serial biomarkers, interval-censored progression times, and death. Eastern North American Region of the Biometrics Society, Baltimore, Maryland, March 16 – 19, 2014.
- Cook RJ. A copula model for marked point processes. Department of Mathematics and Statistics, University of Windsor, Windsor, Ontario, March 6, 2014.

- Cook RJ. Statistical science in health research: fascinating challenges and opportunities. McMaster Student International Health Initiative, McMaster University, Hamilton, Ontario, February 8, 2014.
- Diao L[†], Cook RJ and K-A Lee. A copula model for marked point processes. Conference on Statistical Science in Society, Waterloo, Ontario, July 31–August 2, 2013.
- Cook RJ. Assessing treatment effects based on recurrent events when mortality rates are high. Novartis Statistics Symposium, East Hanover, New Jersey, June 13–14, 2013.
- Cook RJ. Statistical methods for the analysis of recurrent events: an overview Novartis Statistics Symposium, East Hanover, New Jersey, June 13–14, 2013.
- Cook RJ. Evaluating treatment effects on non-fatal and fatal events. ICSA 2013 Applied Statistics Symposium, Washington, DC, June 9–12, 2013.
- Mclsaac M[†], Cook RJ and Poulin-Costello M. Missing data strategies for clinical trials in dermatology. ICSA 2013 Applied Statistics Symposium, Washington, DC, June 9–12, 2013.
- Cook RJ. Assessment of treatment effects following intermediate events in cancer trials. Annual Meeting of the Statistical Society of Canada, Edmonton, Alberta, May 26–29, 2013.
- Cook RJ. Composite endpoints in clinical trials. Biostatistics Unit, St. Mike's Hospital, Toronto, Ontario, May 8, 2013.
- Wu Y[†], Cook RJ, Lee K-A, Qiu X. Selection of genetic risk factors for times of disease progression subject to interval-censoring. CANNeCTIN Biostatistics and Methodological Innovation Working Group: Videoconference Seminar, University of Waterloo, Waterloo, Ontario, January 11, 2013.
- Cook RJ. Dependent observation schemes in life history studies: problems and solutions. Fall Colloquium, Faculty of Mathematics, University of Waterloo, Waterloo, Ontario, November 21, 2012.
- Cook RJ. On model misspecification with composite endpoints in clinical trials. Department of Biostatistics, University of Rochester, Rochester, New York, October 25, 2012.
- Cook RJ. Marginal models and selection effect in clinical trials in transfusion medicine. Symposium in Honour of Jack Kalbfleisch, Department of Biostatistics, University of Michigan, Ann Arbor, Michigan, September 28–29, 2012.
- Mclsaac M[†] and Cook RJ. Two-phase designs yielding incomplete exposure data in clustered or longitudinal responses. International Symposium in Statistics (ISS) on Longitudinal Data Analysis Subject to Outliers, Measurement Errors, and/or Missing Values. Memorial University, St. John's, Newfoundland, July 17, 2012.
- Cook RJ and Wu L[†]. On model misspecification with composite endpoints in clinical trials. Workshop on the Statistical Analysis of Multiple Outcomes, Paris, France, July 10, 2012.
- Cook RJ (Keynote Address). Models and methods for dealing with correlated data in chronic disease processes. Graduate Student Research Conference 2012 - Science, University of Waterloo, Waterloo, Ontario, April 24, 2012.
- Cook RJ. Selection effects and causal inference: statistical challenges in transfusion trials. CRM Colloquium, Department of Mathematics and Statistics, University of Ottawa, Ottawa, Ontario, March 2, 2012.
- Cook RJ. Causal inference and selection effects: statistical challenges in randomized transfusion trials. Department of Statistical Science, Cornell University, Ithaca, New York, November 9, 2011.
- Cook RJ. Causal inference and selection effects: statistical challenges in randomized transfusion trials. Department of Statistics and Actuarial Science, University of Western Ontario, London, Ontario, October 6, 2011.
- Cook RJ and Wu L[†]. Some surprising findings regarding composite time to event outcomes in clinical trials. International Society for Clinical Biostatistics, Ottawa, Ontario, August 21 – 25, 2011.
- Boruvka A[†] and Cook RJ. Semiparametric regression models for interval-censored life history data. Joint Statistical Meeting, Orlando, Florida, July 30 – August 4, 2011.
- Cook RJ. Discussant. Session 600. Joint Statistical Meetings, Orlando, Florida, July 30 – August 4, 2011.
- Cook RJ (plenary talk). Statistical issues in cancer trials featuring recurrent and terminal events: A multistate framework. Statistics 2011 Canada, IMST 2011-FIM XX, Concordia University, Montréal, Quebec, June 30 – July 3, 2011.
- Cook RJ. Estimating treatment effects for episodic interventions based on response-dependent observation ICSA 2011 Applied Statistics Symposium, New York City, New York, June 26 – 29, 2011.
- Cook RJ and Diao L[†]. Joint analysis of multiple Markov processes under interval censoring. Annual Meeting of the Statistical Society of Canada, Wolfville, Nova Scotia, June 12 – 15, 2011.
- Cook RJ and Wu L[†]. Statistical issues in the use of composite endpoints in clinical trials. Cutting Edge Symposium on Advanced Biostatistics and Methodological Issues in Clinical Trials. McMaster University, Hamilton, Ontario, April 28 – 29, 2011.

- Cook RJ and Wu L[†]. Assessing treatment effects based on composite endpoints. Biometrics Meeting, Eastern North American Region, Miami, Florida, March 20 – 23, 2011.
- Cook RJ and Tolusso D[†]. Second order generalized estimating equations for clustered current status data. International Biometrics Conference, Florianópolis-SC, Brazil, December 5–12, 2010.
- Cook RJ. Statistical issues in the assessment of treatment effects for recurrent episodic conditions. Eighth Armitage Lecture and Workshop Programme: Issues in Longitudinal Analysis. Cambridge University, Cambridge, United Kingdom, November 4, 2010.
- Cook RJ and Pullenayegum E[†]. Selection biases in repeated measures analysis of treatment effects for recurrent episodic conditions. Joint Statistical Meetings, Vancouver, British Columbia, July 31 – August 5, 2010.
- Cook RJ. Workshop on optimization and data analysis in biomedical informatics. Fields Institute, Toronto, Ontario, June 11 – 12, 2010.
- Cook RJ (Keynote Address). Methods for dealing with incomplete data in health research. Southern Ontario Graduate Students Seminar Day, Queen's University, Kingston, Ontario, May 27, 2010.
- Cook RJ. Panel discussion on opportunities and challenges in interdisciplinary research and training. Annual Meeting of the Statistical Society of Canada, Quebec City, Quebec, May 25, 2010.
- Cook RJ. Estimating treatment effects for episodic interventions based on response-dependent observation. Annual Meeting of the Statistical Society of Canada, Quebec City, Quebec, May 25, 2010.
- Cook RJ. Second-order estimating equations for clustered current status data. Department of Mathematics and Statistics, Queen's University, Kingston, Ontario, April 12, 2010.
- Cook RJ, Lawless JF, Lakhal L[†] and Lee K-A. Robust estimation of mean functions and treatment effects for recurrent events under event-dependent censoring and termination. Biometrics Meeting, Eastern North American Region, New Orleans, Los Angeles, March 21–24, 2010.
- Cook RJ. A copula-based mixed Poisson model for bivariate recurrent events under event-dependent censoring. Department of Mathematics and Statistics, McMaster University, Hamilton, Ontario, January 19, 2010.
- Cook RJ. Dealing with incomplete covariates and left truncated survival times in oncology trials. Community Health and Epidemiology, Queen's University, Kingston, Ontario, November 24, 2009.
- Cook RJ. Second order estimating equations for clustered current status data. Epidemiology, Biostatistics and Community Health, McGill University, Montréal, Quebec, November 3, 2009.
- Cook RJ. Inverse weighted GEE for dealing with noncompliance in cluster randomized studies. Causal Inference, Oslo, Norway, September 21–23, 2009.
- Cook RJ, Chen B[†], and Yi GY. Marginal methods for estimating treatment effects in cluster randomized longitudinal studies with incomplete responses and non-compliance. Emerging Issues in the Analysis of Longitudinal Data, Banff International Research Station (BIRS), Banff, Alberta, August 16–21, 2009.
- Cook RJ. Multistate analysis of bivariate interval-censored failure time data. Joint Statistical Meetings, Washington, D.C., August 1–6, 2009.
- Yi GY, Zeng L[†] and Cook RJ. Pairwise likelihood method for clustered longitudinal data. Joint Statistical Meetings, Washington, D.C., August 1–6, 2009.
- Cook RJ. Estimating treatment effects in cluster randomized longitudinal studies with incomplete responses and non-compliance using estimating functions. International Symposium in Statistics (ISS) on Inferences in Generalized Linear Longitudinal Mixed Models, Memorial University, St. John's, Newfoundland, July 20–22, 2009.
- Cook RJ. A copula-based mixed Poisson model for bivariate recurrent events under event-dependent censoring. Annual Meeting of the Statistical Society of Canada, Vancouver, British Columbia, May 28–June 1, 2009.
- Cook RJ, Shen H[†] and Boruvka A[†]. Estimating effects of risk factors with left-truncated responses and incomplete covariate data. Canadian Society of Epidemiology and Biostatistics, Ottawa, Ontario, May 25–May 28, 2009.
- Cook RJ. Bone markers in zoledronic acid in pivotal Zometa trials. Novartis Bone Marker Advisory Board, Orlando, Florida, May 28, 2009.
- Cook RJ Disease expression and comparative studies in ankylosis spondylitis. SPARCC Scientific Meeting, Montréal, Quebec, March 27, 2009.
- Cook RJ and Yi GY Monitoring non-inferiority trials with recurrent event outcomes over multiple treatment periods. Biometrics Meeting, Eastern North American Region, San Antonio, Texas, March 15–18, 2009.
- Cook RJ The effect of zoledronic acid in survival among patients with cancer metastatic to bone. Zenith Meeting, Novartis Bone Marker Advisory Board, Seville, Spain, January 23, 2009.
- Cook RJ. Methods for analysing recurrent events subject to event-dependent censoring. Department of Statistics, University of Toronto, Toronto, Ontario, January 15, 2009.

- Cook RJ. Biostatistical and Methodological Innovation Group: Plans for Future Work. CANNeCTIN Meeting, Toronto, Ontario, October 24–25, 2008.
- Cook RJ. Analysis of recurrent events under dependent censoring. Atlantic Association of Research in the Mathematical Sciences. Moncton, New Brunswick, October 17–18, 2008.
- Cook RJ, Lawless JF and Chaieb-Lakhal L[†]. Estimation of marginal features of recurrent event processes under event-dependent censoring. International Clinical Biostatistics Conference, Copenhagen, Denmark, August 17–20, 2008.
- Cook RJ. Issues in the analysis of recurrent events in clinical trials. 24th International Conference on Pharmacoepidemiology and Therapeutic Risk Management, Copenhagen, Denmark, August 17–20, 2008.
- Cook RJ and Lawless JF. A copula model for recurrent events with dependent censoring. Joint Statistical Meetings, Denver, Colorado, August 3 – 7, 2008.
- Cook RJ. Problems involving dependent observation schemes in health research. Centre for the Evaluation of Medicines Rounds, McMaster University, Hamilton, Ontario, June 17, 2008.
- Cook RJ. A copula model for recurrent events with dependent censoring. Meetings of the International Chinese Statistical Association, Piscataway, New Jersey, June 4–7, 2008.
- Cook RJ, Zeng L and Warkentin T. Misclassified covariates under a current status observation scheme. Annual Meeting of the Statistical Society of Canada, Ottawa, Ontario, May 25–29, 2008.
- Cook RJ. A copula random effect model for multi-type recurrent events under event-dependent censoring. Symposium on Dependent Data Structures, Ottawa, Ontario, May 21–23, 2008.
- Zeng L[†] and Cook RJ. A Bayesian analysis of clustered interval-censored failure time data. Symposium on Dependent Data Structures, Ottawa, Ontario, May 21–23, 2008.
- Cook RJ. A cure-rate model for current status data. Canada-Mexico Statistics Meeting, Guanajuato, Mexico, February 22–23, 2008.
- Cook RJ. Problems involving dependent observation schemes in health research. Centre de Recherches Mathématiques, Montréal, Quebec, February 1, 2008.
- Cook RJ. Methodological Issues Arising from Incomplete Data in Laboratory, Clinical and Population Research. Workshop to set Priorities for the Development and Knowledge Transfer of Cutting-Edge Quantitative Methodologies for the Advancement of Canadian Health Research. Fields Institute, Toronto, Canada, October 3, 2007.
- Cook RJ. Use of bone markers for prognoses in cancer metastatic to bone. Novartis Bone Marker Advisory Board Meeting, Barcelona, Spain, September 27–28, 2007.
- Cook RJ. Robust estimation of state occupancy probabilities with interval censored multistate data. Joint Statistical Meetings, Salt Lake City, Utah, July 29–August 2, 2007.
- Cook RJ. The use of multistate models in collaborative health research. Annual Meeting of the Statistical Society of Canada, St. John's, Newfoundland, June 9–13, 2007.
- Cook RJ, White BG[†], Yi Y. Analysis of a non-susceptible fraction with current status data. Meetings of the International Chinese Statistical Association, Raleigh, North Carolina, June 3–6, 2007.
- Cook RJ and Lawless JF. Estimation of marginal characteristics for recurrent event processes. Biometrics Conference (ENAR), Atlanta, Georgia, March 11–14, 2007.
- Cook RJ. The prognostic significance of bone marker velocity analyses in prostate cancer metastatic to bone. Novartis Bone Marker Advisory Board Meeting, Rome, Italy, October 24–26, 2006.
- Cook RJ. Statistical methods for life history data arising in medical research. Statistics Undergraduate Club, University of Waterloo, Waterloo, Ontario, July 17, 2006.
- Cook RJ. Fitting multistate models with interval-censored data. International Biometrics Conference, McGill University, Montréal, Quebec, July 16–21, 2006.
- Lawless J and Cook R. Estimation of marginal characteristics for event history processes. MS-12, Annual Meeting of the Statistical Society of Canada, London, Ontario, May 29, 2006.
- Cook RJ. Markov methodology for assessing treatment effects for recurrent events. Albert Einstein College of Medicine, Bronx, New York, March 16, 2006.
- Cook RJ. Multi-state analysis of point process data. University of Western Ontario, London, Ontario, November 16, 2005.
- Cook RJ (Keynote Speaker). Multi-state models in event history analysis. Survival Analysis Workshop at CRM and McGill University, Montréal, Quebec, November 4–6, 2005.
- Cook RJ. Measures of treatment effect and anticipated outcomes for individual patients. Advances in Treating Metastatic Bone Cancer, Cambridge, Massachusetts, October 28–29, 2005.

- Cook RJ. Models and methods for progression in chronic disease. Special Invited Talk. Meeting of Scholars for Progression in Glaucoma, Skaneateles, New York, September 21, 2005.
- Cook RJ and Yi GY. Cure rate models and covariates under current status observation. Annual Meeting of the Statistical Society of Canada, Saskatoon, Saskatchewan, June 12–15, 2005.
- Cook RJ (Keynote Speaker). Options for model specification and inference with longitudinal data. Southern Ontario Statistical Graduate Students Seminar Days 2005, York University, Toronto, Ontario, May 12, 2005.
- Cook RJ. Robust methods for recurrent events in multi-period randomized trials. HEC, Montréal, Quebec, February, 2005.
- Cook RJ. Robust methods for treatment comparisons in multi-period clinical trials. CRM-ISM Statistics Colloquium, Montréal, Quebec, February, 2005.
- Cook RJ. Methods for bivariate truncated failure time data. Mathematical and Statistical Methods in the Life Sciences. University of Guelph, Guelph, Ontario, November 12, 2004.
- Cook RJ. Methods for Correlated Multi-state Processes. University of British Columbia, Vancouver, British Columbia, November 5, 2004.
- Cook RJ. Some Problems in Event History Analysis Arising in Collaborative Medical Research. Simon Fraser University, Vancouver, British Columbia, November 4, 2004.
- Cook RJ. Latent variable problems in biostatistics. Program on Latent variables in the Social Sciences (LVSS). Statistical and Applied Mathematical Sciences Institute, Research Triangle Park, North Carolina, September 11–14, 2004.
- Cook RJ. Robust methods for recurrent events in multi-period randomized trials. Joint Statistical Meetings, Toronto, Ontario, August 8–12, 2004.
- Cook RJ and Yi GY. Inverse probability weighted GEE for incomplete clustered longitudinal data. Workshop on Missing Data Problems. Field's Institute, Toronto, Ontario, August 5–6, 2004.
- Cook RJ. Writing CIHR grants for health research at the University of Waterloo. Office of Research, University of Waterloo, Waterloo, Ontario, July 12, 2004.
- Cook RJ and Sutradhar R[†]. Assessing within family association based on truncated multivariate failure time data. Statistics in Health Sciences, Nantes, France, June, 2004.
- Cook RJ. Transitional models for longitudinal data. Annual Meeting of the Statistical Society of Canada, Montréal, Quebec, May 30 – June 2, 2004.
- Cook RJ. The analysis of treatment effects in clinical trials with recurrent events over multiple treatment periods. Department of Biostatistics, Medical College of Wisconsin, Milwaukee, Wisconsin, March 16, 2004.
- Cook RJ. The analysis of treatment effects in clinical trials with recurrent events over multiple treatment periods. Department of Biostatistics, University of Michigan, Ann Arbor, Michigan, November 20, 2003.
- Cook RJ. Handling missing data: Novel statistical methods, Educational Symposium, Missing quality of life data in clinical cancer trials. National Cancer Institute of Canada, Annual Clinical Trials Group Meeting, Toronto, Ontario, October 16, 2003.
- Cook RJ. The analysis of treatment effects in clinical trials with recurrent events over multiple treatment periods. Department of Mathematics and Statistics, McMaster University, Hamilton, Ontario, October 1, 2003.
- Cook RJ. Non-inferiority trial design with recurrent events. Amgen Inc. Meeting at the European Cancer Conference, Copenhagen, Denmark, September 21–25, 2003.
- Cook RJ. Missing data in regression problems. Discussant, Joint Statistical Meetings, San Francisco, California, August 8, 2003.
- Cook RJ. Evaluating treatment effects based on recurrent events. GlaxoSmithKline Global Statistics Forum, June 25, 2003.
- Cook RJ. Group sequential methods for treatment comparisons in multi-period trials with recurrent events, Annual Meeting of the Statistical Society of Canada, Dalhousie University, Halifax, Nova Scotia, June 8–11, 2003.
- Cook RJ. Robust methods for treatment comparison in multi-period trials with recurrent events. International Conference on Reliability and Survival Analysis (ICRSA2003). University of South Carolina, Columbia, South Carolina, May 23, 2003.
- Lawless JF and Cook RJ. Cumulative Processes in Event History Data. First Barcelona Conference on Survival Analysis, Barcelona, Spain, 2002.
- Cook RJ. Model for Markers of Bone Destruction and Resorption in Patients with Bone Metastases. San Antonio, Texas, December 13, 2002.

- Cook RJ. Model for Markers of Bone Destruction and Resorption in Patients with Bone Metastases. Crowne Plaza, New York, New York, November 13, 2002.
- Cook RJ and Heddle N. Methodology for the Evaluation of Transfusion Studies. Cerus Corporation, San Francisco, California, June, 2002.
- Cook RJ and Wei W[†]. Design of clinical trials with recurrent event responses and baseline counts. WNAR Meeting, University of California, Oakland, California, June 25, 2002
- Cook RJ. Mixed Markov models for chronic disease processes. Conference on Longitudinal Data Analysis, School of Public Health, Cambridge University, Cambridge, United Kingdom, April, 2002
- Cook RJ. Estimation of operating characteristics of dependent diagnostic tests based on latent Markov models. ENAR Biometrics Spring Meeting, Arlington, Virginia, March 15–21, 2002.
- Cook RJ. Hidden Markov Models. Department of Mathematics and Statistics, University of Guelph, Guelph, Ontario, February, 2002.
- Cook RJ. Hidden Markov Models. Department of Biostatistics, Harvard School of Public Health, Boston, Massachusetts, February, 2002.
- Cook RJ. Methods for incomplete data in longitudinal trials. Clinical Biostatistics Rounds (University of Toronto) and the Applied Biostatistics Association, Princess Margaret Hospital, Toronto, Ontario, October 25, 2001.
- Cook RJ. Methods for dealing with incomplete data in longitudinal studies. The Applied Biostatistics Association and the Clinical Biostatistics Rounds, Department of Public Health Science, University of Toronto, Toronto, Ontario, October, 2001.
- Cook RJ and Yi GY[†]. Marginal methods for incomplete clustered longitudinal data. Joint Statistical Meetings, Atlanta, Georgia, August 5–9, 2001.
- Cook RJ. Some subtle effects of patients selection in clinical trials. Imperial Cancer Research Fund, Radcliffe Infirmary, Oxford, United Kingdom, June 22, 2001.
- Yi GY[†] and Cook RJ. The analysis of longitudinal data with competing risk of drop-out. Statistics 2001, Concordia University, Montréal, Quebec, July 8, 2001.
- Cook RJ. Some remarks on recurrent events, marker processes and survival data. ASMDA, Compiègne, France, 2001.
- Cook RJ and Chen BE[†]. Regression models for recurrent events with interval censored marker processes. ICSA 2001 Applied Statistics Symposium, Chicago, Illinois, June 8, 2001.
- Cook RJ. The "Ins" and "Outs" of clinical trials: Some subtle effects of patients selection. Department of Clinical Epidemiology and Biostatistics, Faculty of Health Sciences, McMaster University, Hamilton, Ontario, February, 2001.
- Cook RJ. The analysis of the effects of bisphosphonates on skeletal related events. Novartis Pharmaceuticals, East Hanover, New Jersey, October 25, 2000.
- Cook RJ. Statistical methods for the analysis of recurrent events. Novartis Pharmaceuticals, East Hanover, New Jersey, October 25, 2000.
- Cook RJ. Efficiency and design considerations in clinical trials with selection based on recurrent events. Department of Statistics, University of Toronto, Toronto, Ontario, October 19, 2000.
- Cook RJ. Selection effects in clinical trials with count and recurrent event data. Biostatistics Department, Cambridge University, United Kingdom, September 26, 2000.
- Cook RJ. The design of clinical trials with selection based on recurrent events. Joint Statistical Meetings, Indianapolis, Indiana, August 13–17, 2000.
- Ng ETM[†] and Cook RJ. Robust inference for bivariate point processes. Annual Meeting of the Statistical Society of Canada, Ottawa, Ontario, June 4–7, 2000.
- Cook RJ and Lawless JF. Dependent censoring with recurrent events. ENAR Biometrics meeting, Chicago, Illinois, March 19–22, 2000.
- Cook RJ. Methods for assessing treatment effects in bisphosphonates trials with multiple events. Grand Rounds, London Regional Cancer Centre, London, Ontario, February 15, 2000.
- Cook RJ. Mixed models in pharmaceutical research. Eli-Lilly Global Statistics Conference, Indianapolis, Indiana, November 4–5, 1999.
- Cook RJ (member of panel of discussants). Clinical trial design with skeletal related event outcomes in studies of bone metastases. Bone Conference. Montréal, Quebec, October 16, 1999.
- Cook RJ. Selection effects in the design and analysis of studies with recurrent events. WNAR Biometrics Spring Meeting, Seattle, Washington, June 27–30, 1999.

- Cook RJ. Methods for the analysis of heterogeneous event history data. Department of Mathematics and Statistics, York University, Toronto, Ontario, March 18, 1999.
- Cook RJ. The analysis of recurrent events in RCTs. Hamilton Regional Cancer Center, McMaster University, Hamilton, Ontario, March 12, 1999.
- Cook RJ. Statistical methods for the analysis of bone metastases. Consultant Panel Meeting, Novartis Pharmaceuticals, San Antonio, Texas, December 14–15, 1998.
- Cook RJ. Methods for assessing treatment effects in studies with bone metastases as outcomes. Consultant Panel Meeting, Novartis Pharmaceuticals, Silverado Country Club, Napa Valley, California, November 30, 1998.
- Farewell VT and Cook RJ (invited). Harvard University/Schering Plough Workshop on Monitoring in Clinical Trials. Harvard University, Boston, Massachusetts, May 28–29, 1998.
- Cook RJ. Random effects models for lifetime data: Applications to a bronchitis trial. McGill University and The Montréal General Hospital, Division of Clinical Epidemiology, Montréal, Quebec, May 28, 1998.
- Cook RJ. Two-state mixed renewal processes for chronic disease processes. International Conference on Reliability and Survival Analysis, Northern Illinois University, DeKalb, Illinois, May 21–24, 1998.
- Cook RJ. On the use of auxiliary variables in missing data problems. Department of Preventive Medicine and Biostatistics, University of Toronto, Toronto, Ontario, December 17, 1997.
- Cook RJ. On the use of auxiliary variables in missing data problems. Department of Mathematics and Statistics, McMaster University, Hamilton, Ontario, November 19, 1997.
- Cook RJ. Robust methods for point process in clinical trials. Department of Mathematics and Statistics, York University, Toronto, Ontario, March 7, 1997.
- Cook RJ. Mixed two-state models for chronic disease: Design and analysis considerations. Department of Biostatistics, Harvard School of Public Health, Harvard University, Boston, Massachusetts, February 13, 1997.
- Cook RJ and Mukherjee J. Random effects models for lifetime data: Applications to a bronchitis trial. Toronto Area Biostatistics Association, Toronto, Ontario, January 21, 1997.
- Cook RJ. Mixed models for lifetime data: Design and analysis considerations. Department of Statistics, University of Rochester, Rochester, New York, December 5, 1996.
- Cook RJ. The design and analysis of two-state chronic disease studies. Statistical Research in the 21st Century: A Conference in Honor of Professor C.R. Rao. Montréal, Quebec, November 29–30, 1996.
- Cook RJ. Monitoring issues for efficacy and toxicity related outcomes in clinical trials. Session on Pharmacoepidemiology: Biostatistical Issues. Annual Meeting of the Statistical Society of Canada, Waterloo, Ontario, June 2–5, 1996.
- Cook RJ. Frailty models for correlated lifetime data : Methods and applications. Department of Statistics, Faculty of Science, Hong Kong University, Hong Kong, May 22, 1996.
- Cook RJ. An overview of topics in biostatistics. Department of Statistics and Actuarial Science, University of Waterloo, Waterloo, Canada, February 12, 1996.
- Cook RJ. Heterogeneity in lifetime data : Methods and applications. Faculty of Applied Health Sciences, University of Waterloo, Waterloo, Ontario, January 10, 1996.
- Cook RJ and Ng ETM[†]. The effect of Ciprofloxacin on the incidence and duration of acute exacerbations of chronic bronchitis. Faculty of Health Sciences, McMaster University, Hamilton, Ontario, December 5, 1995.
- Cook RJ, Lawless JF and Nadeau C. Design and analysis of clinical trials with recurrent events. Joint Meeting of the International Mathematical Society and the American Statistical Association, Orlando, Florida, August 13–17, 1995.
- Cook RJ and Lawless JF. Robust methods for the analysis recurrent events. Institute of Mathematical Statistics New Researchers' Meeting, Kingston, Ontario, Canada July 5–8, 1995.
- Cook RJ and Lawless JF. Methods for the analysis of recurrent events in clinical trials. Harvard School of Public Health Workshop in Biostatistics, Boston, Massachusetts, June 1, 1995.
- Cook RJ, Lawless J and Nadeau C. Statistical methods for the analysis of multiple lifetime events. Department of Statistics and Actuarial Science, Faculty of Mathematics, University of Waterloo, Waterloo, Ontario, 1995.
- Cook RJ. Methodologic issues in the analysis of multiple lifetime events in clinical trials. Department of Cardiology, Faculty of Health Sciences, McMaster University, Hamilton, Ontario, April 19, 1995.
- Walter SD, Bucher H and Cook RJ. Explaining heterogeneity in meta-analysis. Continuing Education Session, Department of Clinical Epidemiology and Biostatistics, McMaster University, Hamilton, Ontario, March 30, 1995.
- Cook RJ. Interpreting the results of clinical trials: Towards More Clinically Meaningful Measures of Association. Ottawa Civic Hospital, University of Ottawa, Ottawa, Ontario, July 8, 1994.

- Cook RJ and Brown KS. Analysis strategies for correlated zero-inflated poisson processes: An application to the Waterloo Smoking Prevention Project. Cluster Randomization Research Symposium, University of Western Ontario, London, Ontario, May 27, 1994.
- Cook RJ, Lawless JF and Nadeau C. Evaluating treatments in clinical trials with recurrent events. SIMS Conference, Department of Statistics and Actuarial Science, University of Waterloo, Waterloo, Ontario, April 29, 1994.
- Cook RJ The design and analysis of clinical trials with recurrent events. Department of Statistics, University of British Columbia, Vancouver, British Columbia, April 4, 1994.
- Cook RJ. Error spending functions for monitoring multiple outcomes in clinical trials. Toronto General Hospital, Toronto, Ontario, December 1, 1993.
- Cook RJ. Interpreting the results of clinical trials: Towards more clinically meaningful measures of association. Ottawa Heart Institute, University of Ottawa, Ottawa, Ontario, November 4, 1993.
- Cook RJ and Sackett DL. Another look at measures of association. Department of Clinical Epidemiology and Biostatistics, McMaster University, Hamilton, Ontario, September 23, 1993.
- The MAP Workshop*. The multi-cohort analysis project : Work in progress. The Issac Newton Institute, Cambridge University, United Kingdom, April 22, 1993.
- Cook RJ. Sequential methods for multivariate response data in clinical trials. Department of Mathematics and Statistics, Queen's University, Kingston, Ontario, March 3, 1993.
- Cook RJ. Sequential methods for multivariate response data in clinical trials. Department of Mathematics and Statistics, McMaster University, Hamilton, Ontario, February 17, 1993.
- Cook RJ. Sequential analysis of bivariate response data in clinical trials. Annual Meeting of the Statistical Society of Canada, Edmonton, Alberta, June 2, 1992.
- Cook RJ. The analysis of bivariate response data in AIDS trials. Society for the Institute of Mathematical Sciences, University of Tubingen, Blaubeuren, Germany, March 12, 1992.
- Cook RJ. Secondary analyses following group sequential monitoring. Seventh Annual Graduate Student Conference, University of Guelph, Guelph, Ontario, July 12, 1991.

CONTRIBUTED PRESENTATIONS AND ABSTRACTS

- Zeller M, Cook RJ, Arnold DM, Callum J, Rochweg B, Acker J, Alhomsy N, Lin Y, Liu Y, Lucier K, Ning S, Park JY, Principato J, Solh Z, Warkentin TE, Webert K, Heddle NM. Pilot trial of sex-matched compared to sex-mismatched red blood cell transfusion Canadian Society for Transfusion Medicine. May 27, 2023.
- Cook RJ and Chen J[†]. Model-based estimands for treatment evaluations with recurrent and terminal events. 2023 Joint Statistical Meetings, Toronto, Ontario, August 5–10, 2023.
- Bernasky S, Hitchon C, Avina-Zubieta A, Larche M, Chandran V, Fortin PR, Colmegna I, Boire G, Bowdish D, Kaplan GG, Dayam R, Gigras A, Cook RJ, Lee JLF, Pereira D, Valerio V and the SUCCEED Investigative Team. Safety and immunogenicity of COVID-19 vaccine in systemic immune mediated inflammatory disease. SUCCEED Research Day, McGill University, February 14, 2023.
- Eder L, Lee K-A, Chandran V, Widdifield J, Drucker A, Ritchlin C, Rosen C, Cook R, Gladman D. Prediction of Psoriatic Arthritis Tool (PRESTO): Development and performance of a new scoring system for psoriatic arthritis risk. 2023 Canadian Rheumatology Association (CRA) Annual Scientific Meeting, Québec City, Québec, February 8–11, 2023.
- Colaço K, Lee KA, Chandran V, Harvey P, Cook R, Piguet V, Gladman DD, Eder L. Derivation and internal validation of a disease-specific cardiovascular risk prediction model for patients with psoriatic arthritis and psoriasis. ACR Convergence 2022, Philadelphia, Pennsylvania, November 10–14, 2022. (Poster) *Arthritis & Rheumatology*, 2022, 74(S9): Abstract No. 1486.
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²¹Received Distinguished Student Award for 36th Annual Meeting of the International Society for Clinical Biostatistics

²²Winner of Best Student Paper at Canadian Rheumatology Association Annual Meeting

Boher JM, Filleron T, Kramar AF, Giorgi R, Cook RJ. Tests d'adéquation du modèle de regression de Fine et Gray pour analyser l'incidence d'un événement en présence de risques compétitifs. Seminaire du Canceropole PACA, Carqueiranne, France, June 26–27, 2014.

Zhong Y[†] and Cook RJ. Robust design of cluster-randomized trials with censored event times. Annual Meeting of the Statistical Society of Canada, Toronto, Ontario, May 26, 2014.

Zeng L, Wen L, Cook RJ. Model misspecification in progression-free survival analysis due to intermittent assessment. Annual Meeting of the Statistical Society of Canada, Toronto, Ontario, May 26, 2014.

Moon N[†], Zeng L, Cook RJ. The impact of prevalent cohort sampling on multistate transition probabilities in chronic disease processes. Annual Meeting of the Statistical Society of Canada, Toronto, Ontario, May 27, 2014.

Riley B, Cook R, Cooke M, Garcia J, Holtby L, Jolin MA, Mcllroy W. Catalyzing multi-disciplinary collaborations for chronic disease prevention research. Chronic Disease Prevention Alliance of Canada's (CDPAC) Fifth Pan-Canadian Conference, Ottawa, Ontario, April 8–11, 2014.

Zhao J[†], Cook RJ and Wu C. Analysis of incomplete derived responses: Multiple imputation for body mass index data. Annual Meeting of the Eastern North American Region of the Biometrics Society, Baltimore, Maryland, March 19, 2014.

Wu Y[†], Cook R. Penalized regression for interval-censored times of disease progression: selection of HLA markers in psoriatic arthritis. Annual Meeting of the Eastern North American Region of the Biometrics Society, Baltimore, Maryland, March 16, 2014.

Boruvka A[†], Cook RJ. Sieve estimation in a markov illness-death process under dual censoring. Annual Meeting of the Eastern North American Region of the Biometrics Society, Baltimore, Maryland, March 17, 2014.

Diao L[†] and Cook RJ. Composite likelihood for joint analysis of multiple multistate processes via copulas. Annual Meeting of the Eastern North American Region of the Biometrics Society, Baltimore, Maryland, March 19, 2014.

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- Zhong Y[†] and Cook RJ. Regression models for the association structure in clustered current status data. Symposium in Honour of Jack Kalbfleisch, Department of Biostatistics, University of Michigan, Ann Arbor, Michigan, September 28–29, 2012.
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- Yi GY[†] and Cook RJ. Inverse probability weighted second order GEE for clustered longitudinal data with intermittently missing observations. Annual Meeting of the Statistical Society of Canada, Burnaby, British Columbia, June 13, 2001.
- Wei W[†] and Cook RJ. Trial design for negative binomial responses based on ANCOVA. Annual Meeting of the Statistical Society of Canada, Burnaby, British Columbia, June 11, 2001.
- Chen EB[†] and Cook RJ. Multivariate recurrent events with dependent terminal events. Annual Meeting of the Statistical Society of Canada, University of Ottawa, Ottawa, Ontario, June 5, 2000.
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- Kopciuk KA, Cook RJ, Matthews DE. Efficiency gains in survival analysis with interval censored auxiliary data from a three state progressive model. Annual Meeting of the Statistical Society of Canada, Regina, Saskatchewan, June 29, 1999.
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- Ng ETM[†] and Cook RJ. Modeling two-state disease processes with random effects. Joint Statistical Meetings, Anaheim, California, August 10–14, 1997.
- Ng ETM[†] and Cook RJ. Adjusted score tests of homogeneity for Poisson processes. Annual Meeting of the Statistical Society of Canada, Fredericton, New Brunswick, June 1–4, 1997.
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- Cook RJ, Ng ETM[†] and Mukherjee J . Two-state mixed renewal processes for studies of chronic disease. Annual Meeting of the Statistical Society of Canada, Waterloo, Ontario, June 2 –5, 1996.
- Mukherjee J, Vaughan D and Cook RJ. A prospective randomized study of Ciprofloxacin vs standard care in the treatment of acute exacerbations of chronic bronchitis. Annual Meeting of the Statistical Society of Canada, Waterloo, Ontario, June 2 –5, 1996.
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- Cook RJ, Lawless JF and Nadeau C. Design and analysis of clinical trials with recurrent events. Joint Meeting of the International Mathematical Society and the American Statistical Association, Orlando, Florida, August 13–17, 1995.
- Sinclair JC, Cook RJ, Guyatt GH, Sackett DL, Cook DJ, Hayward RS. When should an effective treatment be recommended for use? The quantitative derivation of the threshold NNT. Eastern Society for Pediatric Research, New York, New York, October 7, 1994.
- Sinclair JC, Cook RJ, Guyatt GH, Sackett DL, Cook DJ, Hayward RS. When should an effective treatment be recommended for use? The quantitative derivation of the threshold NNT. Second International Cochrane Colloquium, Hamilton, Ontario, October 3, 1994.

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Farewell VT and Cook RJ. Evaluating therapeutic interventions with multiple endpoints. ENAR Biometrics Conference, Cleveland, Ohio, April 16, 1994.

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Cook RJ. An assessment of open-armed trial designs for AIDS research by computer simulation. Annual Meeting of the Statistical Society of Canada, Toronto, Ontario, June 5, 1991.

Roberts L, Glowacki S, Cook RJ, Churchill DN. Percent recirculation: an unreliable measure. *Journal of Clinical and Investigative Medicine*, 1990, 13: B13.

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MISCELLANEOUS CONTRIBUTIONS TO SCIENTIFIC MEETINGS

Accounting for Drop-out Bias in Clinical Trials. Craig Mallinckrodt. Global Statistics Conference of Eli Lilly and Company, November 5, 1999. Discussant.

Mixed model imputation of cost data for early discontinuers from a randomized clinical trial. Robert Obenchain and Bryan Johnstone. Global Statistics Conference of Eli Lilly and Company, November 5, 1999. Discussant.

Estimating the Effect of Vincristine on the Growth of Tumours Implanted in Mice. Brian Eastwood. Global Statistics Conference of Eli Lilly and Company, November 5, 1999. Discussant.

The Analysis of TMAX in Crossover Trials. Francois Vanderherde. Global Statistics Conference of Eli Lilly and Company, November 5, 1999. Discussant.

WORKSHOPS

NISS Annual Writing Workshop for Junior Researchers - Effective Grant Writing. Presenter and Panelist. National Institute of Statistical Science Workshop (Online Webinar). July 21, 2023.

The Analysis of Longitudinal and Life History Data. Speakers: RJ Cook and D Farewell. StatisticAlps: Course on Medical Statistics, 9th Edition, Ponte di Legno, Italy, March 2–5, 2020.

Multistate Analysis of Life History Processes: Statistical Methods for Applications. Speakers: RJ Cook and JF Lawless. University of Calgary, Calgary, Alberta, April 8–9, 2019.

Life History Processes: Recurrent Event and Multistate Analysis (Day 1) and Statistical Methods for Analysis of Multistate Processes (Day 2). Speaker: RJ Cook. Two-day short course at School of Statistics, Renmin University of China, Haidian District Beijing, P.R. China, July 29–30, 2018.

Competing Risks in the Analysis of Clinical Trial Data. Speakers: RJ Cook and JF Lawless One-day short course at Medtronic Inc., Minneapolis, Minnesota, October 12, 2017.

The Analysis of Recurrent Event Data in Clinical Trials. Speakers: M Akacha and RJ Cook. 38th Annual Conference of the International Society of Clinical Biostatistics, Vigo, Spain, July 9, 2017.

The Analysis of Recurrent Event Data in Clinical Trials. Speakers: M Akacha and RJ Cook. Novartis Workshop, Basel, Switzerland, July 6, 2017.

Analysis of Life History Data with Multistate Models. Speakers: RJ Cook and JF Lawless. International Biometrics Conference, Victoria, British Columbia, July 10, 2016.

Analysis of Life History Data with Multistate Models. Speakers: RJ Cook and JF Lawless. Food and Drug Administration, Washington, DC, December 3, 2015.

Life History Processes: Recurrent Event and Multistate Analyses. Speaker: RJ Cook. Biostatistics Branch, Division of Epidemiology, Statistics & Prevention, Eunice Kennedy Shriver National Institute of Child Health & Human Development, National Institutes of Health. Bethesda, Maryland, September 9–10, 2014.

Analysis of Life History Data with Multistate Models. Speakers: RJ Cook and JF Lawless. Korean (KISS) and Chinese (ICSA) Joint Applied Statistics Symposium, Portland, Oregon, June 15–18, 2014.

- Multistate Analysis in Medical Research: Models, Methods and Applications. Speaker: RJ Cook. AMGEN, Thousand Oaks, California, September 23, 2013.
- Analysis of Life History Data with Multistate Models. Speakers: RJ Cook and JF Lawless. One day short course at the 2013 Annual Meeting of the Statistical Society of Canada, Edmonton, Alberta, May 26–29, 2013.
- Analysis of Life History Data with Multistate Models. Speakers: RJ Cook and JF Lawless. One day short course at the 2013 Annual Meeting of the Eastern North American Region (ENAR) of the International Biometrics Society, Orlando, Florida, March 10–13, 2013.
- Workshop on Strategies to Identify Genetic Variants Underlying Psoriatic Arthritis Severity. Speakers: V Chandran, DD Gladman, R Cook, et. al. A OGI Genomics Project Development (GPD) Workshop, Toronto General Hospital, Toronto, Ontario, May 24, 2012 (full day).
- Recurrent Event Analysis in Clinical Trials. Speaker: RJ Cook. AMGEN, Thousand Oaks, California, July 26, 2011.
- Beyond Survival Analysis: Recurrent Event Responses in Clinical Trials. Speakers: RJ Cook and JF Lawless. Washington, D.C., September 20–22, 2010.
- CANNeCTIN Workshop. Methods for Design, Conduct and Analysis of Clinical Trials. Statistical Contributor: RJ Cook. Hamilton, Ontario, January 22, 2010.
- Statistical Analysis of Recurrent Events. Speakers: RJ Cook and JF Lawless. Two-day short course at Medtronic Inc., Minneapolis, Minnesota, October 1–2, 2009.
- Trout Workshop: Methods for Design, Conduct and Analysis of Clinical Trials. Statistical Contributor: RJ Cook. Hamilton, Ontario, January 17, 2009.
- Statistical Analysis of Recurrent Events. Speakers: RJ Cook and JF Lawless. Half day short course at the Deming Conference, Atlantic City, New Jersey, December 8–10, 2008.
- Analysis of Event History Data. Speakers: RJ Cook and JF Lawless. One day short course for the Southern Ontario Association of the ASA, Toronto, Ontario, May 15, 2008.
- Statistical Analysis of Recurrent Events. Speakers: RJ Cook and JF Lawless. One day short course for the French Statistical Association, Paris, France, November 13–14, 2007.
- Statistical Analysis of Recurrent Events. Speakers: RJ Cook and JF Lawless. One day short course at the Joint Statistical Meetings, Salt Lake City, Utah, July 28, 2007.
- Evaluating Clinical trials on the use of Bisphosphonates in Bone Metastases. Speakers: RJ Cook and M Vincent. Workshop Sponsored by Novartis Pharmaceuticals Canada Inc., Winnipeg Regional Cancer Centre, Winnipeg, Manitoba, November 5, 2000 (half day).
- Event History Analysis. Speakers: RJ Cook and JF Lawless. Biostatistics Workshop at the Annual Meeting of the Statistical Society of Canada, Ottawa, Ontario, June 4, 2000 (full day).
- Evaluating Clinical trials on the use of Bisphosphonates in Bone Metastases. Speakers: RJ Cook and M Vincent. Workshop Sponsored by Novartis Pharmaceuticals Canada Inc., National Oncology Pharmaceutical Society Meeting, April 16, 2000 (half day).
- Evaluating Clinical trials on the use of Bisphosphonates in Bone Metastases. Speakers: RJ Cook and M Vincent. Workshop Sponsored by Novartis Pharmaceuticals Canada Inc., Toronto Regional Cancer Centre and The University of Toronto, Toronto, Ontario, March 12, 2000 (half day).
- Evaluating Clinical trials on the use of Bisphosphonates in Bone Metastases. Speakers: RJ Cook and M Vincent. Workshop Sponsored by Novartis Pharmaceuticals Canada Inc., Toronto Regional Cancer Centre and The University of Toronto, Toronto, Ontario, February 19, 2000 (half day).
- Evaluating Clinical trials on the use of Bisphosphonates in Bone Metastases. Speakers: RJ Cook and M Vincent. Workshop Sponsored by Novartis Pharmaceuticals Canada Inc., Toronto Regional Cancer Centre and The University of Toronto, Toronto, Ontario, January 15, 2000 (half day).
- Evaluating Clinical trials on the use of Bisphosphonates in Bone Metastases. Speakers: RJ Cook and P Major. Workshop Sponsored by Novartis Pharmaceuticals Canada Inc., BC Regional Cancer Centre and The University of British Columbia, Vancouver, British Columbia, November 11, 1999 (two half day workshops).
- Mixed Models in Medical Research : Strengths, Limitations and Alternatives. Speaker: RJ Cook. Eli-Lilly Global Statistics Conference, Indianapolis, Indiana, November 5, 1999 (half day).
- Multiplicities in Clinical Trials - Multiple Lifetime Events. Speakers : RJ Cook, A Donner, N Geller, S Pocock. Workshop for the Society of Clinical Trials, Anaheim, California, May 2, 1999.
- Evaluating Clinical trials on the use of Bisphosphonates in Bone Metastases. Speakers: RJ Cook and M Vincent. Workshop Sponsored by Novartis Pharmaceuticals Canada Inc., London Regional Cancer Centre and The University of Western Ontario, London, Ontario, April 17, 1999 (half day).

Evaluating Clinical trials on the use of Bisphosphonates in Bone Metastases. Speakers: RJ Cook and M Vincent. Workshop Sponsored by Novartis Pharmaceuticals Canada Inc., Regional Cancer Center, Ottawa, Ontario, June 5, 1999 (half day).

Writing Research Proposals. Workshop Sponsored by Teaching Resources and Continuing Education at the University of Waterloo, Waterloo, Ontario, March 19, 1999.

Evaluating Clinical trials on the use of Bisphosphonates in Bone Metastases. Workshop Sponsored by Novartis Pharmaceuticals Canada Inc., Quebec City, Quebec, November 21, 1998.

Statistical Methods for the Analysis of Life History Data (Speaker - 1/2 day). One Day Workshop on Statistical Approaches to Longitudinal Data in Cardiology. Sponsored by the Réseau en Cardiologie du Fonds de recherche en santé du Québec (Quebec Cardiology Network) and the HEALNet - NCE Educational program (Canadian Centres of Excellence, Health Evidence and Application Linkage Network). McGill University, Montreal, Quebec, June 27, 1997.

Levels of Evidence and Treatment Recommendations. Cochrane Colloquium (Tutor). Hamilton, Ontario, October 1, 1994.

PROFESSIONAL ASSOCIATIONS

Member of the Royal Statistical Society

American Statistical Association

The Biometric Society (ENAR)

Statistical Society of Canada

Statistical Society of Canada - Biostatistics Section