

CURRICULUM VITAE

Date prepared: June 18, 2021

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<u>Office</u>	
<u>Home</u>	

I. EDUCATION:

<u>DATE</u>	<u>INSTITUTION</u>	<u>DEGREE</u>
1994	University of Canterbury (New Zealand)	B.Sc. (Honors), Statistics
1999	Purdue University	M.S., Applied Statistics
1999	University of Canterbury (New Zealand)	Ph.D., Statistics

II. POSTDOCTORAL TRAINING:

<u>DATE</u>	<u>INSTITUTION</u>	<u>SPECIALTY</u>
1999-2001	Department of Health Care Policy Harvard Medical School	Post-Doctoral Fellow, Biostatistics
1999	Beth-Israel Deaconess Medical Center	Joint Appointment, Cardiovascular Data Analysis Center
2000-2001	Department of Medicine Brigham & Women's Hospital	Joint Appointment, Division of Biometrics

III. ACADEMIC APPOINTMENTS:

<u>DATE</u>	<u>INSTITUTION</u>	<u>TITLE</u>
2001-2006	Department of Health Care Policy Harvard Medical School	Assistant Professor
2006-2013	Department of Health Care Policy Harvard Medical School	Associate Professor
2013-	The Dartmouth Institute for Health Policy and Clinical Practice, Geisel School of Medicine at Dartmouth College	Professor

2014-	Department of Biomedical Data Science, Geisel School of Medicine at Dartmouth College	Professor
2018-	Department of Mathematics, Dartmouth College	Adjunct Professor
2018-	Department of Computer Science, Dartmouth College	Adjunct Professor

IV. DARTMOUTH INSTITUTIONAL LEADERSHIP ROLES:

<u>DATE</u>	<u>INSTITUTION</u>	<u>TITLE</u>
2013-	Institute of Quantitative Biomedical Sciences, Geisel School of Medicine at Dartmouth	Faculty
2014-	Norris Cotton Cancer Center, Geisel School of Medicine at Dartmouth	Faculty
2014-2016	The Dartmouth Institute for Health Policy and Clinical Practice, Geisel School of Medicine at Dartmouth	Faculty Council
2014-	Dartmouth Interdisciplinary Network Research Seminar Series	Organizer
2014-	Center for Technology and Behavioral Health	Faculty
2016	Dartmouth Science Strategy Working Group	Member
2016-2018	Program in Quantitative Biomedical Sciences (QBS)	Associate Director
2018-2020	Program in Quantitative Biomedical Sciences (QBS)	Director
2019-2020	PhD Program in Clinical and Evaluative Science (TDI)	Interim Director
2019	Center for Technology and Behavioral Health and Biomedical Data Science search committee	Member
2020-	PhD Program in Clinical and Evaluative Science (TDI)	Director

V. LICENSE AND CERTIFICATION (IF APPLICABLE):

<u>DATE</u>	<u>LICENSE/CERTIFICATION</u>
2012	PStat®, Accredited Professional Statistician American Statistical Association

VI. HOSPITAL APPOINTMENTS (IF APPLICABLE):

<u>DATES</u>	<u>INSTITUTION</u>	<u>POSITION/TITLE</u>
N/A		

VII. OTHER PROFESSIONAL POSITIONS (NON-DARTMOUTH):

<u>DATES</u>	<u>INSTITUTION</u>	<u>POSITION/TITLE</u>
1993-2003	Department of Corrections, Christchurch, NZ	Statistical Consultant
1997	Corporate Services, Health Benefits Christchurch, NZ	Statistical Consultant
1997	Purdue University	Recitation Instructor
1998-1999	Department of Statistics Purdue University	Statistical Design and Software Consultant
1998-1999	Technical Assistance Program Purdue University	Internship
2001-2011	Harvard Clinical Research Institute	Statistical Consultant
2003	Becker and Associates	Statistical Consultant
2004-2007	Policy and Analysis Incorporated	Statistical Consultant
2007	Boston Life Sciences	Data Analysis Monitoring Committee
2008-2009	Workers Compensation Research Institute	Statistical Consultant
2008-2013	Blue Cross Blue Shield of Massachusetts	Scientific Advisory Committee for Performance Measurement
2011-2013	Harvard Clinical Research Institute	Faculty Advisor
2011-2014	Eastern Caribbean Health Outcomes Research Network Grant Yale University	Faculty Advisor

VIII. TEACHING ACTIVITIES:**A. UNDERGRADUATE MEDICAL EDUCATION):**

<u>DATES</u>	<u>INSTITUTION</u>	<u>NAME OF COURSE/ACTIVITY</u>	<u>ROLE</u>	<u>FREQUENCY</u>	<u>HOURS/YR</u>
2001- 2002, 2007	Harvard Medical School	Fundamental Methods of Clinical Trials	Lecturer	1/year	7
2007	Harvard Medical School	Key Statistical Methods for Clinical Trials of Medical Devices	Lecturer, Organizer	10/year	50
2010- 2011	Harvard Medical School	Health Care Policy (HC 750.0)	Lecturer	Yearly	4

B. GRADUATE EDUCATION:

<u>DATES</u>	<u>INSTITUTION</u>	<u>NAME OF COURSE/ACTIVITY</u>	<u>ROLE</u>	<u>FREQUENCY</u>	<u>HOURS/YR</u>
2001	Harvard School of Public Health	Multiple Regression Analysis for Health Policy and Management (Bio 225c)	Lecturer	1/year	3
2001-2003	Harvard Medical School, Kennedy School of Government, Harvard School of Public Health	Core seminar in Health Policy (HPC 597)	Lecturer	1/year	7
2007	Harvard Medical School	Group Sequential and Adaptive Design (Bio276)	Lecturer	Weekly	5
2016	Thayer School of Engineering at Dartmouth	Data Assimilation Techniques (ENGG 199)	Lecturer	Once	20
2018	Thayer School of Engineering at Dartmouth	Big Data Analytics for Biomarkers (ENGG 199-05 18S)	Lecturer	Once	4

C. GRADUATE MEDICAL EDUCATION:

<u>DATES</u>	<u>INSTITUTION</u>	<u>NAME OF COURSE/ACTIVITY</u>	<u>ROLE</u>	<u>FREQUENCY</u>	<u>HOURS/YR</u>
2011-2012	Harvard School of Public Health	Principles of Clinical Trials	Lecturer	Yearly	8
2012	Harvard Clinical and Translational Science Center	Social Networks in Human Disease. Introduction to Network Medicine	Lecturer	Yearly	9
2013-2018	Geisel Medical School	The Practice of Statistics in Medicine (In 2013/14: Advanced Statistical Methods) (ECS.245.1-TFA13)	Lecturer	Biweekly	300
2013-	Geisel Medical School	Integrative Biomedical Sciences I (QBS 110)	Lecturer	Yearly	16

2014-15	Geisel Medical School	Foundations of Biostatistics II: Regression (QBS 121)	Lecturer	Once	16
2015	Geisel Medical School	Foundations of Epidemiology I (QBS 130)	Lecturer	Once	16
2015-2017	Geisel Medical School	Algorithms for Data Science (QBS 177)	Lecturer	Once	16
2016-2017	Geisel Medical School	Foundations of Biostatistics I: Statistical Theory for Quantitative Biomedical Science (QBS 120)	Lecturer	Once	16
2018, 2020-	Geisel Medical School	Biostatistics III: Modeling Complex Data (QBS 122)	Lecturer	Twice per week	300
2019	Geisel Medical School	Journal Club: Modeling Complex Data (QBS 193)	Lecturer	Once per week	150

D. UNDERGRADUATE COLLEGE:

<u>DATES</u>	<u>INSTITUTION</u>	<u>NAME OF COURSE/ACTIVITY</u>	<u>ROLE</u>	<u>FREQUENCY</u>	<u>HOURS/YR</u>
1997	University of Canterbury	Introduction to Statistics (Stat 111)	Instructor	Weekly	72
1997	University of Canterbury	Applied Probability (Stat 231)	Instructor	Weekly	180
1997	Purdue University	Calculus for Engineers (Math 161)	Instructor	Weekly	128
1999	Purdue University	Statistics and Society (Stat 113)	Instructor	Weekly	160
2011	Harvard University	Design and Analysis of Sample Surveys (Stat 260)	Instructor	Weekly	9
2020	Dartmouth College	Applications of Data Science (CS 69/169)	Guest lecturer	Once	9

E. COMMUNITY EDUCATION: *List activities relevant to your professional roles.*

<u>DATES</u>	<u>NAME OF COURSE/ACTIVITY</u>	<u>ROLE</u>	<u>FREQUENCY</u>	<u>HOURS/YR</u>
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2005	Taught lesson on data analysis to Grade 4 class	Guest Teacher	Once	5.5
2007	Taught lesson on fractions and bar graphs to Grade 4 class	Guest Teacher	Once	5.5
2009-2012	Youth Advocacy Project, abstract information from case files	Group Supervisor	Once	10

F. INVITED SHORT COURSES AND TUTORIALS

<u>DATES</u>	<u>NAME OF COURSE/ACTIVITY</u>	<u>VENUE</u>	<u>LENGTH AND STUDENTS</u>	<u>PREPARATION TIME (HOURS)</u>
2015, 2018, 2020	Social Network Analysis with Applications to Medicine and Health Policy	International Conference on Health Policy Statistics	Two hours, 20 participants	100
2017	Workshop on Bayesian Analysis	Center for Medicare and Medicaid Innovation (CMMI)/CMS in Baltimore, MD	6 hours, 40 participants	80

IX. ADVISING AND MENTORING

A. GRADUATE STUDENT ADVISING:

<u>DATE</u>	<u>NAME OF STUDENT</u>	<u>ROLE</u>	<u>PROGRAM</u>
2001-2002	Laura Mauri	Advisor (unofficial capacity)	Brigham & Women's Hospital
2001-2003	Douglas Levy	Advisor (unofficial capacity)	Harvard Medical School
2001-2005	Stephanie Shimada	Advisor (unofficial capacity)	Veterans Administration

2002-2007	Melitta Jakab	Advisor (unofficial capacity)	World Health Organization, Barcelona, Spain
2003-2008	Zhaojing Gong	Member Ph.D. Advisory Committee (External)	University of Canterbury
2008-2010	Lindsay Sabik	Member Ph.D. Advisory Committee	Virginia Commonwealth University
2009-2011	Sebastian Bauhoff	Advisor (unofficial capacity)	RAND Corporation
2009-2011	Michael Barnett	Advisor (unofficial capacity)	Brigham & Women's Hospital
2010-2011	Weihua An	Member Ph.D. Advisory Committee	Indiana University
2011-present	Jessica Perkins	Member Ph.D. Advisory Committee	Harvard University
2011-2013	Rebecca Cadigan	Member Ph.D. Advisory Committee	Harvard University
2011-2013	Alison Hwong	Advisor (unofficial capacity)	Harvard University
2011-present	David Kim	Advisor (unofficial capacity)	Harvard University
2011-2012	Sae Takada	Advisor (unofficial capacity)	Harvard University
2013-2014	Alison Luciano	Advisor (unofficial capacity)	Health Policy and Clinical Practice, Geisel School of Medicine at Dartmouth
2013-2014	Byounggug Kwon	Ph.D. Committee qualifying exam member	Quantitative Biomedical Sciences, Geisel School of Medicine at Dartmouth

2014-2017	Elizabeth Nichols	Ph.D. Committee member	Health Policy and Clinical Practice, Geisel School of Medicine at Dartmouth
2015	Lia Harrington	QBS rotation	Quantitative Biomedical Sciences, Geisel School of Medicine at Dartmouth
2016	Guanqing Chen	QBS rotation	Quantitative Biomedical Sciences, Geisel School of Medicine at Dartmouth
2017	Carly Bobak	QBS rotation	Quantitative Biomedical Sciences, Geisel School of Medicine at Dartmouth
2017-2020	Chuankai An	Co-Advisor Ph.D.	Computer Science, Dartmouth College
2017-	Guanqing Chen	Advisor Ph.D.	Quantitative Biomedical Sciences, Geisel School of Medicine at Dartmouth
2017-	Carly Bobak	Co-Advisor Ph.D.	Quantitative Biomedical Sciences, Geisel School of Medicine at Dartmouth
2018	Benjamin Ricard	QBS rotation	Quantitative Biomedical Sciences, Geisel School of Medicine at Dartmouth
2018-2020	Helen Newton	Ph.D. Committee member	Health Policy and Clinical Practice, Geisel School of Medicine at Dartmouth
2018	Xin Ran	QBS rotation	Quantitative Biomedical Sciences, Geisel School of Medicine at Dartmouth
2018-	Xin Ran	Advisor Ph.D.	Quantitative Biomedical Sciences, Geisel School of Medicine at Dartmouth
2019	Joshua Levy	QBS Rotation	Quantitative Biomedical Sciences, Geisel School of Medicine at Dartmouth
2019-	Renata West Yen	Ph.D. Committee member	Health Policy and Clinical Practice, Geisel School of Medicine at Dartmouth
2020	Shuai Jiang	QBS Rotation	Quantitative Biomedical Sciences, Geisel School of Medicine at Dartmouth
2020-	Reed Bratches	Ph.D. Committee member	Health Policy and Clinical Practice, Geisel School of Medicine at Dartmouth
2020-	Catherine Pollack	Ph.D. Committee member	Quantitative Biomedical Sciences, Geisel School of Medicine at Dartmouth
2020-	Joshua Levy	Ph.D. Committee member	Quantitative Biomedical Sciences, Geisel School of Medicine at Dartmouth
2020	Timothy Renier	QBS Rotation	MD/PhD Program, Geisel School of Medicine at Dartmouth
2020-	Devin Parker	Ph.D. Committee member	Health Policy and Clinical Practice, Geisel School of Medicine at Dartmouth

B. POSTDOCTORAL FELLOWS OR MEDICAL FELLOWS

<u>DATE</u>	<u>NAME OF FELLOW</u>	<u>ROLE</u>	<u>PROGRAM</u>
2005-2007	Kirsten Smith	Advisor (unofficial capacity)	Harvard Medical School

2006-2007	Alanna Coolong	Advisor (unofficial capacity)	Brigham & Women's Hospital
2007-2009	Jason Block	Advisor (unofficial capacity)	Harvard Medical School
2007-2009	Brian Neelon	Mentor, Postdoctoral Fellow	Duke University
2010-2012	Sudeshna Paul	Mentor, Postdoctoral Fellow	Emory University
2011-2013	Jaeun Choi	Mentor Postdoctoral Fellow	Harvard Medical School
2012-2013	Hirokazu Shirado	Advisor (unofficial capacity)	Harvard Medical School
2014-2018	Erika Moen	Mentor R25 Postdoctoral Fellow	Geisel School of Medicine at Dartmouth
2015-2017	Weston Viles	Co-Mentor R25 Postdoctoral Fellow	Geisel School of Medicine at Dartmouth
2016-2018	Pablo Martinez-Cambor	Mentor, Postdoctoral Fellow	Geisel School of Medicine at Dartmouth
2018-2020	Seho Park	Mentor, Postdoctoral Fellow	Geisel School of Medicine at Dartmouth

C. FACULTY:

<u>DATE</u>	<u>NAME OF FACULTY</u>	<u>ROLE</u>	<u>PROGRAM</u>
2014-18	Valerie Lewis (Sociology)	Advisor	K01-award from NIH
2015-20	Hildreth Frost (Biomedical Data Science)	Advisor	K01-award from NIH
2016-17	Annie Hoen (Epidemiology)	Advisor	COBRE-award
2017-18	Zhigang Li (Biomedical Data Science)	Senior faculty mentor	Departmental mentoring program
2018-	Jennifer Emond (Biomedical Data Science)	Advisor	K01-award from NIH
2018-	Erika Moen (Biomedical Data Science)	Advisor	COBRE-award
2019-	Lauren Gilstrap	Advisor	K01-award (moved partway)
2020-	Jesse Columbo	Advisor	K-award prep

X. RESEARCH FUNDING:**A. Current:**

<u>DATES</u>	<u>PROJECT TITLE/NUMBER</u>	<u>ROLE/ %EFFORT</u>	<u>SPONSOR</u>	<u>ANNUAL DIRECT COSTS</u>
2019	Center for Quantitative Biology: A focus on "omics", from organisms to single cells (COBRE)	Data Core Director, Co-investigator, 10%	NIH	\$1,800,000

2019	Comparative Effectiveness of Direct Admission & Admission through Emergency Departments for Children	Principal investigator (sub-contract), 10%	PCORI	\$696,328
2018-2023	IMPROVE AKI: A Cluster-Randomized Trial of Team-Based Coaching Interventions to IMPROVE Acute Kidney Injury	Co-investigator, 5%	NIH/NDDK	\$563,708
2018-2021	Multi-Component Implementation of Shared Decision Making for Uterine Fibroids Across Socioeconomic Strata	Co-investigator, 5%	PCORI	\$517,490
2017-2021	Improving Patient and Caregiver Engagement through the Application of Data Science Methods to Audio Recorded Clinic Visits Stored in Personal Health Libraries	Co-investigator, 2.5%	NIH/NLM	\$217,500
2017-2022	Mediation Analysis Methods to Model Human Microbiome Mediating Disease-Leading Causal Pathways in Children, 1R01 GM123014	Co-investigator, 17%	NIH	\$400,000
2017-2019	Predicting SNP priors for Cancer GWASs, 1R01 LM012720-01	Co-investigator, 2.5%	NIH	\$125,000
2017-2021	Identifying Predictors of Hospital Admission from the ED Among the Elderly	Principal investigator (Sub-contract), 7.5%	AHRQ	\$17,427
2017-2021	Influence of an Expanded Bundled Payment Program on Patient-Reported Outcomes, Episode-of-Care Costs, Procedure Volume, and Safety, R01 HS024714	Co-investigator (Sub-contract), 5%	AHRQ	\$36,095
2016-2019	Comparative Effectiveness of Encounter Decision Aids for Early Stage Breast Cancer Across Socioeconomic Strata	Co-investigator, 10%	PCORI	\$469,686
2016-2020	Mental Health Care Under New Payment Strategies, R01 MH109531	Co-investigator, 2.5%	NIH/NIMH	\$473,549
2014-	Center for Molecular Epidemiology (COBRE)	Co-investigator, 5%	NIH	\$2,255,242
2018-2023	Causes and Consequences of Healthcare Efficiency, 2P01AG019783-16 (Skinner)	Co-investigator, 10%	NIH/NIA	\$1,625,280
2013-2019	National Implementation of Medicare Advantage and Prescription Drug Plan CAHPS Survey, #9920120015	Co-investigator, 5-10%	CMS and RAND	\$13,744

2015-2020	Accelerating the Use of Evidence-based Innovation in Healthcare Systems, U19	Data Core Director, Co-investigator, 20%	AHRQ	\$2,341,654
2016-2020	Advancing PCOR Methods in Survival Data with Unmeasured Confounding to Improve Patient Risk Communication, PCORI	Principle Investigator, 20%	PCORI	\$250,000
2016-2021	Center for Technology and Behavioral Health, P30	Co-investigator, 2.5%	NIH	\$719,612
2019-2023	Integrated Physical and Mental Health Self-management Compared to Chronic Disease Self-management	Principal investigator (sub-contract), 5%	PCORI	\$1,199,898

B. Past

<u>DATES</u>	<u>PROJECT TITLE/NUMBER</u>	<u>ROLE/ %EFFORT</u>	<u>SPONSOR</u>	<u>ANNUAL DIRECT COSTS</u>
2001-2003	Implementation of Medicare CAHPS, HCF-98-C-00057-0043	Co-Investigator, 5%	Bearing Point	\$858,250
2001-2003	Modeling Clinical and Angiographic Outcomes of Coronary-Artery Stents, Billing arrangement	Principal Investigator, 10%	Division of Clinical Biometrics, Brigham and Women's Hospital	\$19,713
2001-2005	Structuring Markets and Competition in Health Care, HS10803-2	Co-Investigator, 10%	Agency for Healthcare Quality and Research	\$539,484
2001-2005	Hospitalization of Nursing Facility Residents, 1 R01 HS10645-01A1	Co-Investigator, 15%	Agency for Healthcare Quality and Research	\$417,762
2001-2005	Modeling Treatment Use and Effectiveness in Mental Illness, 1 R01 MH61434-01A1	Co-Investigator, 20%	National Institutes of Mental Health	\$292,154
2002-2006	Impact of the HRSA Health Disparities Collaboratives, U01 HS13653	Co-Investigator, 10%	Agency for Healthcare Quality and Research	\$388,003
2002-2007	CAHPS II, 1 U18 HS13190-01	Co-Investigator, 20%	Agency for Healthcare Quality and Research	\$989,181

2003-2006	Impact of the HRSA Health Disparities Collaboratives, 0030185	Co-Investigator, 7%	Commonwealth/HRSA (Co-Funded)	\$144,495
2004-2005	Evaluation of generic drug promotion efforts by BCBS of Michigan	Co-Investigator, 20%	Blue Cross Blue Shield Association	\$92,593
2004-2005	Cancer Therapy-Induced Bone Loss (CTIBL) and Fracture Risk in Men with Prostate Cancer: SEER Medicare Linked Database Study, ZOL446G US94	Co-investigator, 20%	Novartis Pharmaceuticals Corporation	\$141,602
2004-2007	Implementation of Medicare CAHPS – MMC Survey, 500-01-0020	Co-investigator, 20%	Westat	\$286,043
2004-2008	Social Network Study of Health Effects in Aging, R01 AG024448	Co-Investigator, 5%	National Institute on Aging	\$451,248
2005-2006	Improving Systems for Colorectal Cancer Screening, R01 CA112367	Co-investigator, 6%	National Cancer Institute	\$94,137
2005-2007	Use of incentive-based payment system to reduce hospitalization rates of nursing home residents	Co-investigator, 7.5%	Commonwealth Fund	\$72,398
2005-2008	Modeling Treatment Use and Effectiveness in Mental Health, 2 R01 MH061434	Co-investigator, 20%	National Institutes of Mental Health	\$292,154
2006-2008	Community, Health Center, and Academic Medicine Partnership Project	Co-investigator, 10%	National Heart, Lung and Blood Institute (NHLBI)	\$175,000
2006-2011	Design and Data Analysis of the Medicare Health Plan CAHPS Survey's	Co-investigator, 20%	Subcontract RAND	\$386,726
2007-2010	Development of Network Data and Methods for Study of Health and Health Care, Award #58729	Co-investigator, 10%	Robert Wood Johnson Foundation	\$158,466
2007-2011	Financial Incentives and Variations in the Care of Medicare Beneficiaries. R01	Co-Investigator, 10%	National Institute on Aging	\$277,355
2008-2011	Fractures, Heart Disease, Stroke on Aromatase Inhibitors, R01 CA127652	Co-Investigator, 20%	National Cancer Institute	\$275,533

2008-2011	Fractures, Heart Disease, Stroke on Androgen Deprivation	Co-Investigator, 10%	Prostate Cancer Foundation Grant	\$100,000
2008-2011	Leveraging Medicare Payment and Reporting Policies to Improve Nursing Home Quality, R01	Co-Investigator, 10%	National Institute on Aging	\$184,500
2008-2014	Social Networks and Neighborhoods, P01 AG0309301	Project Leader, 23%	National Institute on Aging	\$1,253,932
2008-2013	Evaluation of the Nursing Home Value Based Purchasing Demonstration, HHSM-500-2006-00009I	Co-Investigator, 1.50%	LLC/Centers for Medicare & Medicaid Services	\$46,303
2008-2013	Prevention of Treatment and Disease-Related Morbidity During Androgen Deprivation Therapy: A Multicenter Proposal.	Co-Investigator, 10%	Prostate Cancer Foundation	\$225,000
2009-2013	Medicare Part D Plan Generosity & Dual-Eligible Nursing Home Residents, R01 AG034085	Co-Investigator, 8.75%	National Institute on Aging	\$247,190
2009-2013	Telemedicine and Nursing Home Hospitalizations, 69032	Co-Investigator, 2.50%	Commonwealth Fund	\$166,895
2010-2013	Accounting for Confounding Bias and Heterogeneity in Comparative Effectiveness Research, 1RC4MH092717-01	Principal Investigator, 23%	NIH/NIMH	\$908,612
2011-2013	Health care expenditures for nursing home residents with advanced dementia. 1R21 AG039658-01	Co-Investigator, 5%	Hebrew Senior Life	\$69,700
2011-2013	Comparing the Green House Model with Traditional Nursing Homes on Cost and Quality of Care	Co-Investigator, 2.5%	Robert Wood Johnson Foundation	\$166,895
2012-2013	Influences on Psychiatrist Prescribing of Antipsychotics, R01 MH093359	Co-Investigator, 10%	NIH/NIMH	\$359,699

2011-2014	Using Social Networks to Understand and Improve Health, #67919	Co-Investigator, 18.75%	Robert Wood Johnson Pioneer Grant	\$2,608,842
2011-2015	Long term Outcomes of Open Versus Endovascular AAA Repair, 5R01HL105453-02	Co-Investigator, 15%	NIH/NHLBI	\$443,919
2015-2016	Examining the Early Effects of Accountable Care Organizations on Primary Care for Vulnerable Patients	Co-investigator, 5%	Commonwealth	
2012-2016	Proximity to Food Establishments and BMI in the Framingham Heart Study, R01 HL109263-01A1	Co-Principal Investigator (Subramanian), 10%	NIH/NHLBI	\$281,838
2015-16	Translating Basic Social Network Science Discoveries to Enhance Interventions to Promote Smoking Cessation Among Adults with Serious Mental Illness	Co-Principal Investigator (Aschbrenner and Brunette), No salary support	SYNERGY Translational Pilot Program, Geisel School of Medicine at Dartmouth	\$0
2015-2017	Evaluating the Formation and Performance of ACOs: Does Primary Care for Poor and Minority Patients Improve under ACOs?	Co-investigator, 5%	NIH/NIA	\$298,110
2015-2020	NIA Mentored Career Development Award (K01) for Valerie Lewis	Mentor	K-award	In-kind
2015-2017	Translation of Lung Cancer Screening from Trial to Everyday Practice	Co-investigator, 5%	Commonwealth Fund	\$99,962
2015-2017	Challenges to effective implementation of lung cancer screening	Co-investigator, 5%	NCI	
2016-17	Worksite social connections and food choice: identifying opportunities for obesity prevention	Consultant	R21, NIH	\$1000
2013-2018	Causes and Consequences of Healthcare Efficiency, P01AG019783	Co-investigator, 10%	NIH/NIA	\$1,249,726
2013-2018	Diffusion of Medical Technology and Effects on	Co-investigator, 10%	NIH/NIA	\$522,322

	Outcomes and Expenditures, 1U01 AG046830			
2013-2018	Social Networks and the Spread of Cancer Care Practices, 1R01 CA174468	Principle investigator (sub-contract), 10%	NIH/NCI	\$14,917
2018-19	Urban-Rural Disparities in Healthcare for Children with Medical Complexity	Co-Principle Investigator (Leyenaar), No salary support	SYNERGY Translational Pilot Program, Geisel School of Medicine at Dartmouth	\$0

XI. PROGRAM DEVELOPMENT (List any educational, clinical or research entities at Dartmouth that were created or notably advanced by your efforts):

<u>DATE</u>	<u>INSTITUTION</u>	<u>TITLE</u>
2018-2020	Geisel School of Medicine at Dartmouth	Director, Program in Quantitative Biomedical Sciences
2019-2020	Geisel School of Medicine at Dartmouth	Interim Director, Ph.D. program in Clinical and Evaluative Sciences
2020-	Geisel School of Medicine at Dartmouth	Director, Ph.D. program in Clinical and Evaluative Sciences

XII. ENTREPRENEURIAL ACTIVITIES: N/A

XII. MAJOR COMMITTEE ASSIGNMENTS:

National/international

<u>DATES</u>	<u>COMMITTEE</u>	<u>ROLE</u>	<u>INSTITUTION</u>
2005, 2008, 2010	Scientific Planning Committee	Member	International Conference on Health Policy Statistics
2006/2008	Scientific Planning Committee	Member	International Biometric Society Eastern North American Region (ENAR)
2009-2015	Methods Council	Member	AcademyHealth
2011	International Conference on Health Policy Statistics	Co-Chair	International Conference on Health Policy Statistics
2013, 2015, 2018	International Conference on Health Policy Statistics	Advisory Committee	International Conference on Health Policy Statistics
2012-2014	Health Policy Statistics Section ASA Fellows Committee	Member	American Statistical Association

2014-2016	Health Policy Statistics Section ASA Fellows Committee	Chair	American Statistical Association
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Regional

<u>DATES</u>	<u>COMMITTEE</u>	<u>ROLE</u>	<u>INSTITUTION</u>
N/A			

Institutional

<u>DATES</u>	<u>COMMITTEE</u>	<u>ROLE</u>	<u>INSTITUTION</u>
2007-2008	Tools and Technology Strategic	Member	Harvard Medical School
2011-2013	Institutional Review Board	Member (Alternate)	Harvard Medical School
2011-2013	Committee on Higher Degrees	Member	Harvard University
2012-2013	Faculty Fellowship Committee (Health Policy)	Member	Harvard University
2014-	Quantitative Biomedical Sciences Program Admissions Committee	Member	Geisel School of Medicine at Dartmouth
2016	Dartmouth Science Strategy Working Group	Member	Dartmouth College
2016-2017	Biomedical Data Science Master's Degree Formation Committee	Member	Geisel School of Medicine at Dartmouth
2018	Team Science Committee	Member	Geisel School of Medicine at Dartmouth
2018-2020	Geisel Faculty Space Committee	Member	Geisel School of Medicine at Dartmouth

XIV. MEMBERSHIPS, OFFICE AND COMMITTEE ASSIGNMENTS IN PROFESSIONAL SOCIETIES:

<u>DATES</u>	<u>SOCIETY</u>	<u>ROLE</u>
1994-present	The New Zealand Statistical Association (NZSA)	Member
1995-present	The New Zealand Mathematical Society (NZMS)	Member
1998-present	The American Statistical Association (ASA)	Member
2003-present	Health Policy Statistics Section, American Statistical Association	Assistant Editor (2003-2006), Chair-Elect (2007), Chair (2008), Past-Chair (2009)

2003, 2004, 2006	Special Emphasis Panel, National Institute of Mental Health	Panel Member
2004-present	AcademyHealth	Member
2005-present	International Biometric Society	Member
2006-present	International Network for Social Network Analysis (INSNA)	Member
2006, 2007, 2008	Mental Health Services in Mental Health Specialty Settings, National Institute of Mental Health	Panel Member
2007	Special Emphasis Panel, Transition to Adulthood RFA, National Institute of Mental Health	Panel Member
2007	Special Emphasis Panel, National Institute of Mental Health and National Institute on Alcohol abuse and Alcoholism	Panel Member
2008	Use of Pooled Administrative Data for Policy Relevant Health Services Research, National Institute of Mental Health	Panel Member
2009	Methodology and Measurement in Behavioral and Social Sciences, Biobehavioral (BBBP), Integrated Review Group, National Institute of Health	Panel Member
2009	Special Emphasis Panel, Health Care Delivery and Methodologies, National Institute of Mental Health	Panel Member
2010	Developing and Advanced Mental Health Centers, National Institute of Mental Health	Panel Member
2011	Mental Health Services in Criminal Justice Settings, National Institute of Mental Health	Panel Member
2011	Optimizing Fidelity of Empirically-Supported Behavioral Treatments for Mental Disorders, National Institute of Mental Health	Panel Member
2011	International Conference on Health Policy Statistics, American Statistical Association	Co-Chair
2011-present	Institute of Mathematical Statistics (IMS)	Life Member
2011-present	International Society of Bayesian Analysis	Member
2012	Mechanisms Explaining Differences in Depressive and Anxiety Disorders Across Racial/Ethnic Groups, National Institute of Mental Health	Panel Member
2014	PCORI	Panel Member
2015	PCORI	Panel Member
2015	PCORI consultation	Panel Member
2015	Biostatistical Methods and Research Design Study Section (BMRD)	Panel Member
2016	Clinical Trials to Test the Effectiveness of Treatment, Preventive, and Services	Panel Member

	Interventions, National Institutes of Mental Health	
2016	National Institutes of Health, National Institute of Child and Human Development (NICHD), Division of Intramural Population Health Research (DIPHR).	Reviewer, Quadrennial review of quality of scientific work done by the NICHD, DIPHR
2017	Mental Health Services Review meeting: Special Emphasis Panel/Scientific Review Group 2017/10 ZMH1 ERB-K (07) S	Panel Member
2018	Pilot Effectiveness Trials for Treatment, Preventive and Services Interventions (R34). 2018/05 ZMH1 ERB-K (03) S	Panel Member
2018	Clinical Trials to Test the Effectiveness of Treatment, Preventive, and Services Interventions (R01). 2018/05 ZMH1 ERB-K (04) S	Panel Member
2018	New England Statistical Society	Life Member
2019	NIMH Clinical Trials to Test the Effectiveness of Treatment, Preventive, and Services Interventions (R01). 2019/10 ZMH1 ERB-B (05) S	Panel Member
2019	NIMH Advanced Laboratories for Accelerating the Reach and Impact of Treatments for Youth and Adults with Mental Illness (ALACRITY) Research Centers (P50). Special Emphasis Panel/Scientific Review Group 2020/01 ZMH1 ERB-K (01)	Panel Member
2021	NIMH Clinical Trials to Test the Effectiveness of Treatment, Preventive, and Services Interventions (R01, Collaborative R01). Special Emphasis Panel/Scientific Review Group 2021/05 ZMH1 ERB-B (04) R	Panel Member

XV. EDITORIAL BOARDS:

<u>DATES</u>	<u>SOCIETY</u>	<u>ROLE</u>
2002-2003	Current Index of Statistics	Assistant Editor
2009-present	Statistics in Medicine	Associate Editor
2010-2015	Health Services and Outcomes Research Methodology	Associate Editor
2011-2012	Health Services and Outcomes Research Methodology (Special issue for International Conference on Health Policy Statistics)	Guest Editor
2019-	Observational Studies	Associate Editor

XVI. JOURNAL REFEREE ACTIVITY:

DATES	JOURNAL NAME
2000-present	Statistics in Medicine
2001-present	The Journal of Health Economics
2002-present	Health Services and Outcomes Research Methodology
2002-present	The Australian and New Zealand Journal of Statistics
2003-present	Weather and Forecasting Journal
2003-present	BMC Medical Research Methodology
2003-present	Journal of Biopharmaceutical Statistics
2004-present	Medical Decision Making
2004-present	Biometrics
2004-present	International Journal for Quality in Health Care
2005- present	Bayesian Analysis
2005- present	Journal of Agricultural, Biological, and Environmental Statistics
2005- present	Biostatistics
2005- present	Health Services Research
2007- present	Journal of Statistical Planning and Inference
2007- present	Journal of Official Statistics
2008- present	Journal of Quantitative Analysis in Sports
2008- present	Journal of the Royal Statistical Society
2009- present	Circulation
2009- present	Journal of the American Statistical Association
2010- present	Social Science and Medicine
2011- present	Clinical Trials
2011- present	Journal of Statistical Computation and Data Analysis
2012- present	Cardiovascular Quality and Outcomes
2012- present	Health Economics
2013- present	American Journal of Epidemiology
2013- present	Journal of Causal Inference
2014-present	Medical Care
2017-	Sociological Methodology

XVII. AWARDS AND HONORS:

DATES	DESCRIPTION
1990	Bickerton-Widdowson Memorial Trust Fund Award, Christchurch Boys' High School, University of Canterbury
1990	John Wilson Scholarship, Christchurch Boys' High School, University of Canterbury
1992	Page Memorial Prize for Mathematics, University of Canterbury
1993	University of Canterbury Senior Scholarship, University of Canterbury
1993	Cook Memorial Prize for Mathematics, University of Canterbury
1994	University of Canterbury Doctoral Scholarship

1996	Second Place, Students' Paper Competition, New Zealand Statistical Association Conference
1997	Charles Cook, Warwick House Memorial Scholarship, University of Canterbury
1999	L.J. Cote Award for Excellence in Statistics, Purdue University
2002	Young Investigator Travel Award, 4 th Scientific Forum on Quality of Care and Outcomes Research in Cardiovascular Disease and Stroke
2011	Mid-Career Excellence Award, American Statistical Association Health Policy Statistics Section
2012	Elected Fellow, American Statistical Association for "novel use of Bayesian statistics, multivariate-hierarchical modeling, causal inference and social network analysis to solve problems in health policy and health services research, for improving evaluation of treatments and quality of health care, and for leadership in health policy statistics."
2019	International Society for Pharmacoeconomics and Outcomes Research (ISPOR) Award for Excellence in Health Economics and Outcomes Research Methodology.

XVIII. INVITED PRESENTATIONS:**International location:**

<u>DATE</u>	<u>TOPIC/TITLE</u>	<u>ORGANIZATION</u>	<u>LOCATION</u>
1999	Modeling Recidivism	Department of Mathematics & Statistics, University of Canterbury	Christchurch, New Zealand
2004	Accounting for Treatment Noncompliance and Nonresponse in Randomized Trials: Sensitivity to Model Assumptions	School of Public Health, University of Queensland	Queensland, Australia
2007	Bayesian Approaches to Multilevel Covariance Analysis	University of Canterbury, Symposium in Honor of John Deely	Christchurch, New Zealand
2007	Optimal Survey Design When Nonrespondents are Sub-sampled for Follow-up	New Zealand Statistical Association Conference	Christchurch, New Zealand
2010	Using Genes as Instrumental Variables in Analyses of Social Network Data (Presented by Niels Rosenquist)	American Statistical Association	Vancouver, Canada
2018	Social Networks Analysis: Explanations for Health Care Variation	Wennberg International Collaborative	Zurich, Switzerland
2018	An instrumental variable procedure for overcoming unmeasured confounding in Cox Proportional Hazard regression models	Department of Mathematics & Statistics, University of Canterbury	Christchurch, New Zealand

2019	Relationships between health and social networks in the context of network analyses	Zi Congress in Health Services Research	Berlin, Germany
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National location:

<u>DATE</u>	<u>TOPIC/TITLE</u>	<u>ORGANIZATION</u>	<u>LOCATION</u>
1995	The Application of Predictive Models of Recidivism to Parole Board Decision Making	New Zealand Parole Board	Auckland, New Zealand
1996	High Risk Offenders: A Step Toward More Accurate Prediction	Australasian Criminological Conference	Wellington, New Zealand
1999	The Minimum Detectable Concentration of an Assay	National Center for Atmospheric Research	Boulder, CO
1999	The Minimum Detectable Concentration of an Assay	Division of Biostatistics, Department of Medicine, Indiana University	Indianapolis, IN
2000	Status Report on the Development of an Objective Performance Criterion for Medical Devices	Advanced Medical Technology Association	Washington DC
2000	On the use of Prior Information in Medical Device Testing: Methods and Examples	Center for Devices and Radiological Health, Food and Drug Administration	Rockville, MD
2001	Section on Design & Analysis of Medical Device Trials: Regulatory, Industry, and Clinical Perspectives	International Biometric Society Eastern North American Region	Charlotte, NC
2001	Bayesian Sample Size Calculations for Historically-Controlled Clinical Trials with Adjustment for Covariates	Division of Biostatistics, Department of Medicine, Indiana University	Indianapolis, IN
2002	Historical Controlled Medical Device Clinical Trials: Design, Analysis, and Communicating with the FDA and Industry	Purdue University	West Lafayette, IN
2002	Bayesian Hierarchical Transformation Models for Receiver Operating Characteristic Curve Analysis	American Statistical Association	New York, NY
2002	Modeling Treatment Use & Effectiveness in Mental Illness, Accounting for Treatment Noncompliance and Missing Outcomes in Randomized Trials	International Biometric Society Eastern North American Region	Pittsburgh, PA
2004	Accounting for Treatment-Noncompliance and Missing	Worcester Polytechnic Institute	Worcester, MA

	Outcomes in Randomized Trials: Sensitivity to Model Assumptions		
2005	Session on Multiple Imputation in Mental Health Services Research	American Statistical Association	Minneapolis, MN
2005	Hierarchical Factor Analysis for Survey Data with Structured Nonresponse	International Conference on Health Policy Research	Boston, MA
2005	Session on Causal Inference with Longitudinal Data	International Conference on Health Policy Research	Boston, MA
2006	A Tiered Treatment Design for a Historical Controlled Medical Device Clinical Trial	American Statistical Association	Seattle, WA
2006	Statistical Trending with Application to the Hospital CAHPS Survey	CAHPS	Baltimore, MD
2006	Hierarchical Factor Analysis for Survey Data with Structured Nonresponse	International Biometric Society Eastern North American Region	Tampa, FL
2007	Optimal Survey Design When Nonrespondents are Sub-sampled for Follow-up	American Statistical Association	Salt Lake City, UT
2007	The Tennis Formula: How it can be used in Professional Tennis	New England Symposium on Statistics in Sports	Cambridge, MA
2008	The Role of Health Behaviors in the Formation and Dissolution of Friendship Ties	Brown University	Providence, RI
2008	Optimal Survey Design When Nonrespondents are Sub-sampled for Follow-up	International Biometric Society Eastern North American Region	Washington, DC
2008	Recent Experiences Applying Bayesian Analysis to Medical Device Trials	Medical Technology Learning Institute	Bethesda, MD
2009	Traditional Instrumental Variables Methods versus Likelihood and Bayesian Approaches for Comparing Antipsychotic Medications	Bayesian Biostatistics Conference	Houston, TX
2009	The Role of Health and Health Behaviors in the Formation and Dissolution of Friendship Ties	International Biometric Society Eastern North American Region	San Antonio, TX
2009	Causal Inference in Observational Studies	49 th Annual NCDEU Meeting	Hollywood, FL
2010	Using Genes as Instrumental Variables in Analyses of Peer Effects	New England Statistical Symposium	Cambridge, MA
2010	Novel Bayesian Multivariate Hierarchical Models of Random	International Chinese Statistical Association	Indianapolis, IN

	Coefficients of Regression Models for Survey Data	Applied Statistics Symposium	
2010	Network Meta Analysis Design Adapted to a Historically Controlled Clinical Trial	International Chinese Statistical Association Applied Statistics Symposium	Indianapolis, IN
2011	Application of instrumental variables methods to longitudinal analyses. CHPS Methods Workshop: Application of Instrumental Variable Methods in Health Services Research	Columbia University	New York, NY
2011	Methods Workshop: Observational Data Analysis for Comparative Effectiveness Research	AcademyHealth	Seattle, WA
2011	Conditionally Dyadic Independent Models for Longitudinal Analysis of Relationships of the Effects of Health Traits on Relationships in a Social Network	American Statistical Association	Miami, FL
2011	Using Genetic Alleles as Instrumental Variables with Longitudinal Data for Estimating Peer Effects	University of Illinois	Chicago, IL
2011	Application of Instrumental Variables Methodology to the Estimation of Peer Effects	Veteran's Administration	Durham, NC
2011	Longitudinal Analysis of the Effect of Health Traits on Relationships in a Social Network	Department of Biostatistics, Duke University	Durham, NC
2011	The use of Instrumental Variables for the Estimation of Peer Effects in Social Networks	Department of Statistics, Duke University	Durham, NC
2011	Estimation of Peer Effects in Social Networks Using Instrument Variables	Department of Statistics, University of Connecticut	Storrs, CT
2012	Using Retrospective Sampling to Study Factors Affecting Relationships in Large Longitudinal Social Networks	International Biometric Society Eastern North American Region	Washington, DC
2012	Network Mega Analysis: Applications to Historically Controlled Clinical Trials	New England Statistical Symposium	Boston, MA
2012	Methods Workshop Organization: Observational Data Analysis for Comparative Effectiveness Research	AcademyHealth Annual Research Meeting	Orlando, FL

2012	Longitudinal Analysis of the Effect of Health Traits on Relationships in a Social Network	The Dartmouth Institute, Geisel School of Medicine at Dartmouth	Hanover, NH
2012	Utilizing External Theory and Historical Data to Enable More Justifiable Comparisons of Treatments	American Statistical Association	San Diego, CA
2012	Using Instrumental Variables, Structural Equations and Genetics to Enhance Comparative Effectiveness Research	Geisel School of Medicine at Dartmouth, Dartmouth College	Hanover, NH
2012	Social Network Analysis and Methodology; Two Problems: Two Sides of a Bumpy Road	NIH/NIAAA	Rockville, MD
2012	Longitudinal Analysis of the Effect of Health Traits on Relationships in a Social Network	University of Massachusetts Medical School	Worcester, MA
2013	Methods to jointly account for unmeasured confounding of treatment and censoring of time-to-event outcomes in comparative effectiveness research	International Chinese Statistical Association Applied Statistics Symposium	Bethesda, MD
2014	Accounting for unmeasured confounding and censoring in the analysis of survival-time outcomes in comparative effectiveness research	New England Statistics Conference	Boston, MA
2015	Causal Estimation of Peer Effects in Longitudinal Dyadic Data Using Instrumental Variables	Department of Biostatistics, Brown University	Providence, RI
2015	Accounting for unmeasured confounders in the analysis of time-to-event data in vascular surgery	Department of Biostatistics, John Hopkins Bloomberg School of Public Health	Baltimore, MD
2015	Expert Panel Discussion: Vital Collaborations among Academia, Industry, and Government	American Statistical Association	Seattle, WA
2015	Discussant: "Social Interaction Effects in Duration Models" by Georgios Effraimidis	The Joint Annual Health Econometrics Workshop (AHEW) and the 7th Australasian Workshop on Econometrics and Health Economics	University of Hawaii, Manoa, HI
2016	Causal Estimation of Peer Effects in Longitudinal Dyadic Data Using Instrumental Variables	International Biometric Society Eastern North American Region	Austin, TX

2016	Methods Workshop: A study of variation in ICD treatment in the U.S. from a network science perspective	AcademyHealth	Boston, MA
2016	Methods Workshop: Modeling Bivariate Residential-Workplace Neighborhood Effects on Body Mass Index	AcademyHealth Annual Research Meeting	Boston, MA
2016	Hierarchical regression and variance-function modeling to estimate the inter-rater intraclass correlation coefficient in assessments of shared-decision-making	American Statistical Association	Chicago, IL
2016	Modeling a Bivariate Residential-Workplace Neighborhood Effect when Estimating the Effect of Proximity to Fast-Food Establishments on Body Mass Index	Northwestern University	Chicago, IL
2016	Modeling a Bivariate Residential-Workplace Neighborhood Effect when Estimating the Effect of Proximity to Fast-Food Establishments on Body Mass Index	University of Vermont	Burlington, VT
2017	Bayesian Hierarchical regression and variance-function modeling to estimate the inter-rater intra-class correlation coefficient in assessments of shared-decision-making	International Biometric Society Eastern North American Region	Washington, DC
2017	Adjusting for Bias Introduced by Instrumental Variable Estimation in the Cox Proportional Hazards Model	Annual Health Econometrics Workshop (AHEW)	Saint Louis, MO
2017	Network Assortativity of Physicians Who Account for Extreme Amounts of Medicare Spending	American Statistical Association	Baltimore, MD
2018	Network Indicators of Physicians Who Account for Extreme Amounts of Medicare Spending	International Conference on Health Policy Statistics	Charleston, SC
2018	Social Network Analyses in Health Care and Medicine	MetroHealth/Case Western Reserve University	Cleveland, OH
2018	Presentation of "The Confidence Interval Method for Selecting Valid	Annual Health Econometrics Workshop, John Hopkins University	Baltimore, MD

	Instruments” by Windmeijer, Liang, Hartwig and Bowden		
2018	An instrumental variable for Cox models extended to non-proportional hazards and effect modification	State University of New York at Buffalo	Buffalo, NY
2018	The Practice of Statistical Research: Informing Medicine and Science	Providence College	Providence, RI
2019	An Instrumental Variable Procedure for Accounting for Unmeasured Confounding in Cox Proportional Hazard Regression Models	IRSA (Institute for Research on Statistics and its Applications) Conference: Causal Inference and Data Science, University of Minnesota	Minneapolis, MN
2019	Accounting for unmeasured confounding in Cox Proportional Hazard regression models using instrumental variables	Medical University of Wisconsin	Milwaukee, WI
2019	A Novel Cluster Sampling Design that Couples Three Surveys to Support Multiple Statistical Objectives	Agency for Health Care Research and Quality	Baltimore, MD
2019	Developing a Taxonomy of United States Health Systems	Agency for Health Care Research and Quality	Baltimore, MD
2019	Using Social Network Analyses to Estimate Peer Effects allowing Modification by Network Position with Application to the Intensity of End-of-life Care in Cancer	MD Anderson Cancer Research Center	Houston, TX
2020	Modeling Peer Effects and their Modification by an Actor's Structural Prominence in a Social Network	International Conference on Health Policy Statistics	San Diego, CA
2020	Using Instrumental Variables to Account for Unmeasured Confounding under a Cox model with extension to Non-proportional Hazards	Department of Biostatistics, Brown University	Providence, RI
2020	Using Instrumental Variables to Account for Unmeasured Confounding under a Cox model Extended to Non-proportional Hazards	American Statistical Association, Joint Statistical Meetings	Virtual Session
2020	Presentation of “Cold and Mortality in a Cross-Sectional and Lifecycle Perspective: Evidence from Competing Models by CM Dahl, M	Annual Health Econometrics Workshop	Virtual Session

	Karlsson, EN Sorensen and NR Ziebarth”		
2021	Enabling causal inference through parameter expansion of the Cox model to allow effects to vary with follow-up	Division of Biostatistics, The Albert Einstein College of Medicine	Virtual Invited Seminar
2021	Using medical insurance claims to measure network features of both health organizations and the physicians within them to aid the study of variations in health care	International Biometric Society Western North American Region	Virtual Invited Seminar

Regional/local location:

<u>DATE</u>	<u>TOPIC/TITLE</u>	<u>ORGANIZATION</u>	<u>LOCATION</u>
1993	A Novel DOE for Comparing Multiple Designs of Tires	Firestone Tire and Rubber Company	Christchurch, New Zealand
1996	Where to From Here?	Department of Corrections	Christchurch, New Zealand
2000	The Minimum Detectable Concentration of an Assay/HCP Seminar Series in Statistics	Department of Health Care Policy, Harvard Medical School	Boston, MA
2001	Design & Analysis of Medical Device Clinical Trials/Bayesian Methodology Working Group Seminar	Department of Biostatistics, Harvard School of Public Health	Boston, MA
2002	Analysis & Design of Medical Device Clinical Trials/Technology Assessment Group	Effective and Affordable Health Care Seminar, Harvard University	Boston, MA
2003	Statistical Methods for Developing Recommendations for Use of Coronary-Artery Stents/ Technology Assessment Group	Effective and Affordable Health Care Seminar, Harvard University	Boston, MA
2003	Application of Models for Multivariate Mixed Outcomes to Medical Device Trials: Coronary Artery Stenting	Center for Health Quality, Outcomes & Economics Research	New Bedford, MA
2004	New Statistical Methods for Detecting Improvements in and Developing Recommendations for Using Medical Devices: Coronary-Artery Stents	Effective and Affordable Health Care Seminar, Harvard University	Boston, MA
2004	Design and Analysis of Medical Device Clinical Trials	Department of Radiology, Harvard Medical School	Boston, MA

2005	Statistical Methods for Evaluating the Consumer Assessments of Health Plans. Technology Assessment Group	Effective and Affordable Health Care Seminar Harvard University	Boston, MA
2005	Hierarchical Factor Analysis for Survey Data with Structured Nonresponse/Bayesian Methodology Working Group Seminar	Department of Biostatistics, Harvard School of Public Health	Boston, MA
2006	Likelihood Methods for Longitudinal Randomized Trials: Accounting for Treatment Noncompliance and Missing Outcomes. Technology Assessment Group	Effective and Affordable Health Care Seminar, Harvard University	Boston, MA
2007	Bayesian Methods for Analyzing Data in Cardiology and Radiology	Clinical Research Program, Children's Hospital	Boston, MA
2007	Deriving a Model of the Time Between Hospital Stays for Nursing Home Residents. Technology Assessment Group	Effective and Affordable Health Care Seminar, Harvard University	Boston, MA
2008	Comparing Traditional Instrumental Variables Methods to Parametric Simultaneous Equations Models, Technology Assessment Group	Effective and Affordable Health Care Seminar, Harvard University	Boston, MA
2009	Introduction to Matlab: Seminar to Statistical Programmers	Department of Health Care Policy, Harvard Medical School	Boston, MA
2009	Factors Influencing Changes in Employment Among Women with Newly Diagnosed Breast Cancer/Technology Assessment Group	Effective and Affordable Health Care Seminar, Harvard University	Boston, MA
2009	Health Behaviors and the Formation and Dissolution of Close Friendships	Statistical Modeling for Networks in the Biological, Computational, and Social Sciences, Radcliffe Institute, Harvard University	Cambridge, MA
2009	Bayesian Methods in Clinical Trials	Boston University School of Public Health	Boston, MA
2009	Using the Framingham Heart Study Social Networks to Study How Health Affects Friendship Relationships.	Meeting on Methodology for Empirical Research on Social Interactions, Social Networks, and Health II, Harvard University	Boston, MA

2009	Traditional Instrumental Variables Methods versus Likelihood and Bayesian Approaches for Comparing Antipsychotic Medications	Boston Chapter of the American Statistical Association	Cambridge, MA
2010	Longitudinal Models of Social Networks	Nunn Laboratory, Department of Anthropology, Harvard University	Boston, MA
2010	Using the Framingham Heart Study Social Network to Study How Health Affects Friendship Relationships	Effective and Affordable Health Care Seminar, Harvard University	Boston, MA
2011	Challenges in Obtaining and Utilizing Judicial Data: YAD Project	Incarceration and Health Disparities Symposium, Brigham & Women's Hospital, Harvard University	Boston, MA
2011	Joint Modeling of Treatment Selection and Survival in AAA Repair	Effective and Affordable Health Care Seminar, Harvard University	Boston, MA
2011	Conditionally Dyadic Independent Models for Longitudinal Analysis of the Effect of Health Traits on Relationships in a Social Network	Workshop on Social Networks and Social Capital, Harvard University	Boston, MA
2011	Symposium on Social Network Research in Medical Literature/Discussant	Department of Biostatistics and Department of Epidemiology, Harvard School of Public Health	Boston, MA
2012	Estimating Cost Offsets of New Mental Health Drugs for Schizophrenia	Effective and Affordable Health Care Seminar, Harvard University	Boston, MA
2012	Network Mega Analysis: Applications to Historically Controlled Clinical Trials	New England Statistical Symposium	Boston, MA
2012	Optimal Small-Area Estimation and Design When Nonrespondents are Subsampled for Followup in a Comparative Study of Healthcare Quality	Statistical Methods in Epidemiology Working Group, Department of Biostatistics, Harvard School of Public Health	Boston, MA
2013	The Analysis of Social Network Data: An Exciting Frontier for Statisticians. Effective and Affordable Health Care Seminar	Harvard University	Cambridge, MA
2014	Statistical methods research to advance medicine, health services and medical sociology	Center for Technology and Behavioral Health, Geisel	Lebanon, NH

		School of Medicine at Dartmouth	
2015	Workshop on Social Network Analysis: Types of Studies and Methods for Analyzing Them	Dartmouth Interdisciplinary Network Research Group	Hanover, NH
2016	Modeling a Bivariate Residential-Workplace Neighborhood Effect when Estimating the Effect of Proximity to Fast-Food Establishments on Body Mass Index	Center for Technology and Behavioral Health, Geisel School of Medicine at Dartmouth	Lebanon, NH
2018	A Conversation on Social Network Analysis	Data Analysis Center, The Dartmouth Institute of Health Policy and Clinical Practice	Lebanon, NH
2019	Workshop on An Introduction to Bayesian Thinking, Modeling and Implementation	Dartmouth Data Analytics Association, Information Technology and Consulting	Hanover, NH

XIX. BIBLIOGRAPHY:

A. Peer-reviewed publications in print or other media

Original articles:

1. Tandberg D, Deely JJ, **O'Malley, AJ**. Generalized Likelihood Ratios for Quantitative Diagnostic Test Scores. *The American Journal of Emergency Medicine* 1997, 15, 694-699. PMID: 9375556
2. **O'Malley AJ**, Zou KH, Fielding JR, Tempany CMC. Bayesian Regression Methodology for Estimating a Receiver Operating Characteristic Curve with Two Radiologic Applications: Prostate Biopsy and Spiral CT of Ureteral Stones. *Academic Radiology* 2001, 8, 713-725. PMID: 11508750
3. **O'Malley AJ**, Normand S-L, Kuntz RE. Sample Size Calculation for a Historically-Controlled Clinical Trial with Adjustment for Covariates. *Journal of Biopharmaceutical Statistics* 2002, 12, 227-247. PMID: 12413242
4. **O'Malley AJ**, Deely JJ. Bayesian Measures of the Minimum Detectable Concentration of an Immunoassay. *Australian and New Zealand Journal of Statistics* 2003, 45, 43-65.
5. **O'Malley AJ**, Normand S-L, Kuntz RE. Application of Models for Multivariate Mixed Outcomes to Medical Device Trials: Coronary Artery Stenting. *Statistics in Medicine* 2003, 22, 313-336. PMID: 12520564
6. Hunt MO, **O'Malley AJ**, Feist WC, McCabe GP, Evans JW, Cassens DL. Weathering of painted wood construction: Façade restoration. *Forest Products Journal* 2003, 53, 51-60.

7. **O'Malley AJ**, Normand S-LT. Statistics: Keeping Pace with the Medical Technology Revolution. *Chance* 2003; 16(4):41-44.
8. Mauri L, **O'Malley AJ**, Cutlip DE, Ho KKL, Popma JJ, Chauhan MS, Baim DS, Cohen DJ, Kuntz RE. Effects of Stent Length and Lesion Length on Coronary Restenosis. *American Journal of Cardiology* 2004, 93, 1340-1346. PMID: 15165911
9. **O'Malley AJ**. Development and Communication of Bayesian Methodology for Medical Device Clinical Trials. *Applied Bayesian Statistical Studies in Biology and Medicine*, edited by M. DiBacco and G. D'Amore and F. Scalfari, Norwell, MA: Kluwer, 2004, Paper 10: 189-218.
10. Levy DE, **O'Malley AJ**, Normand S-LT. Covariate Adjustment in Clinical Trials with Non-Ignorable Missing Data and Non-Compliance. *Statistics in Medicine* 2004, 23, 2319-2339. PMID: 15273951
11. **O'Malley AJ**, Normand SLT. Likelihood methods for treatment noncompliance and subsequent nonresponse in randomized trials. *Biometrics* 2005, 61, 325-334. PMID: 16011678
12. Horvitz-Lennon M, **O'Malley AJ**, Frank RG, Normand S-LT. Improving traditional intention-to-treat analyses: a new approach. *Psychological Medicine* 2005, 35, 961-970. PMID: 16045063
13. Mauri L, Orav EJ, **O'Malley AJ**, Popma JJ, Moses JW, Leon MB, Holmes DR, Teirstein PS, Schofer J, Breithardt G, Cutlip DE, Firth BG, Donahoe DJ, Kuntz RE. Relationship of Late Loss in Lumen Diameter to Coronary Restenosis in Sirolimus-Eluting Stents. *Circulation* 2005, 111, 321-327. PMID: 15877983
14. Mauri L, **O'Malley AJ**, Popma JJ, Moses JW, Leon MB, Holmes DR, Teirstein PS, Cutlip DE, Donahoe D, Kuntz RE. Comparison of Thrombosis and Restenosis Risk from Stent Length of Sirolimus-Eluting Stents Versus Bare Metal Stents. *American Journal of Cardiology* 2005, 95, 1140-1145. PMID: 15877983
15. Zou KH, **O'Malley AJ**. A Bayesian hierarchical non-linear regression model in receiver operating characteristic analysis of clustered continuous diagnostic data. *Biometrical Journal* 2005, 47, 417-427. PMID: 16161801
16. **O'Malley AJ**, Zaslavsky AM, Elliot MN, Zaborski L, Cleary PD. Case-Mix Adjustment of the CAHPS® Hospital Survey. *Health Services Research* 2005, 40, 2162-2181. PMID: 16316443
17. **O'Malley AJ**, Zaslavsky AM, Hays RD, Hepner KA, Keller S, Cleary PD. Exploratory Factor Analyses of the CAHPS® Hospital Pilot Survey Responses across and within Medical, Surgical, and Obstetric services. *Health Services Research* 2005, 40, 2078-2095. PMID: 16316439
18. Keller S, **O'Malley AJ**, Hays RD, Matthew RA, Zaslavsky AM, Hepner KA, Cleary PD. Methods Used to Streamline the CAHPS® Hospital Survey. *Health Services Research* 2005, 40, 2057-2077. PMID: 16316438

19. Serruys PW, Ong ATL, Morice M-C, De Bruyne B, Colombo A, Macaya C, Richardt G, Fajadet J, Hamm C, Dawkins K, **O'Malley AJ**, Bressers M, Donohoe D. Arterial Revascularization Therapies Study Part II - Sirolimus-Eluting Stents for the Treatment of Patients with Multivessel De Novo Coronary Artery Lesions. *EuroIntervention* 2005, 1, 147-156. PMID: 19758896
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21. **O'Malley AJ**, Zou KH. Bayesian Multivariate Hierarchical Transformation Models for ROC Analysis. *Statistics in Medicine* 2006, 25, 459-479. PMID: 16217836
22. Holmes DR, Teirstein P, Satler L, Sketch M, **O'Malley AJ**, Popma JJ, Kuntz RE, Fitzgerald PJ, Wang H, Caramanica E, Cohen SA. Sirolimus-Eluting Stents vs Vascular Brachytherapy for In-Stent Restenosis Within Bare-Metal Stents. *Journal of the American Medical Association* 2006, 295, 1264-1273. PMID: 16531619
23. Buchanan JL, Murkofsky RL, **O'Malley AJ**, Karon SL, Zimmerman D, Caudry DJ, Marcantonio ER. Nursing Home Capabilities and Decisions to Hospitalize: A Survey of Medical Directors and Directors of Nursing. *Journal of the American Geriatrics Society* 2006, 54, 458-465. PMID: 16551313
24. Jacobson M, **O'Malley AJ**, Earle CC, Pakes J, Gaccione P, Newhouse JP. Does Reimbursement Influence Chemotherapy Treatment for Cancer Patients? *Health Affairs* 2006, 25, 437-443. PMID: 16522584
25. **O'Malley AJ**, Frank RG, Kaddis A, Rothenberg BM, McNeil, BJ. Impact of Alternative Interventions on Changes in Generic dispensing rates. *Health Services Research* 2006, 41, 1876-1894. PMID: 16987306
26. Hasset MJ, **O'Malley AJ**, Pakes JR, Newhouse JP, Earle CC. Frequency and cost of chemotherapy-related serious adverse effects in a population sample of women with breast cancer. *Journal of the National Cancer Institute* 2006, 98, 1108-1117. PMID: 16912263
27. Keating NL, **O'Malley AJ**, Smith MR. Diabetes and Cardiovascular Disease During Androgen Deprivation Therapy for Prostate Cancer. *Journal of Clinical Oncology* 2006, 24, 4448-4456. PMID: 16983113
28. Landon BE, Normand SLT, Lessler A, **O'Malley AJ**, Schmaltz S, Loeb J, McNeil B. Quality of Care for the Treatment of Acute Medical Conditions in United States Hospitals. *Archives of Internal Medicine* 2006, 166, 2511-2517. PMID: 17159018
29. Marcantonio ER, **O'Malley AJ**, Murkofsky RL, Caudry DJ, Buchanan JL. Derivation and Confirmation of Scales Measuring Medical Directors' Attitudes about the Hospitalization of Nursing Home Residents. *The Journal of Aging and Health* 2006, 18, 869-884. PMID: 17099138

30. Hicks LS, **O'Malley AJ**, Lieu TA, Keegan T, Cook NK, McNeil, BJ, Landon BE, Guadagnoli E. Determinants of Quality of Chronic Disease Management Among Community Health Centers in the United States. *Health Affairs* 2006, 25, 1712-1723. PMID: 17102197
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Personal Statement:

The primary emphasis of my work has been on methodological and collaborative research. My methodological research interests have centered on the design and analysis of medical device clinical trials, causal inference, multivariate-hierarchical modeling and social network analysis. I have developed novel statistical methods often involving novel use of Bayesian statistics to solve important methodological and applied problems in health policy and health services research, including the evaluation of treatments and outcomes of health care in multiple areas of medicine. In conjunction with my statistical leadership in collaborative research, this has led to advances in interventional cardiology, vascular surgery, measuring quality of health care, mental health and long-term care.

My teaching and educational activities have been in the form of didactic teaching in the classroom, invited special seminars; mentoring colleagues, post-doctoral fellows and students; and service to the statistics profession. I teach short courses on network analyses and on Bayesian analysis at conferences and other forums. In addition, my service to the statistics profession includes eight-years at the forefront of the Health Policy Statistics Section of the ASA, associate editorships at both *Statistics in Medicine*, *Health Services and Outcomes Research Methodology*, and most recently at *Observational Studies* and as reviewer for over 20 respected academic journals. From 2018-2020 I served as Director of the Program in Quantitative Biomedical Sciences at Dartmouth.

In recognition of many of the above contributions, I was elected fellow of the American Statistical Association (ASA) in 2012 and awarded the 2011 Mid-Career Award by the Health Policy Statistics Section of the ASA (a single award is given biannually). Recently, in 2019 I was the recipient of the International Society for Pharmacoeconomics and Outcomes Research (ISPOR) Award for Excellence in Methodology in Health Economics and Outcomes Research.

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