CURRICULUM VITAE

Date prepared: June, 2023

 $\pmb{NAME:} \ A. \ James \ O'Malley, Ph.D., \ PStat @$

OFFICE ADDRESS:	The Dartmouth Institute		
	Geisel School of Medicine at Dartmouth		
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I. EDUCATION:

DATE	<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:

DATE	INSTITUTION	<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:

DATE	<u>INSTITUTION</u>	TITLE
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
2021-	The Dartmouth Institute for Health Policy and Clinical Practice, Geisel School of Medicine at Dartmouth College	Peggy Y. Thomson Professorship in the Evaluative Clinical Sciences

IV. DARTMOUTH INSTITUTIONAL LEADERSHIP ROLES:

DATE	INSTITUTION	TITLE
2013-	Institute of Quantitative Biomedical Sciences, Geisel	Faculty
	School of Medicine at Dartmouth	
2014-	Norris Cotton Cancer Center, Geisel School of	Faculty
	Medicine at Dartmouth	
2014-2016	The Dartmouth Institute for Health Policy and	Faculty Council
	Clinical Practice, Geisel School of Medicine at	
	Dartmouth	
2014-	Dartmouth Interdisciplinary Network Research	Organizer
	Seminar Series	
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 Health Policy and Clinical Practice	Interim Director
2019-	Center for Technology and Behavioral Health and	Member
	Biomedical Data Science search committee	
2020-2021	PhD Program in Health Policy and Clinical Practice	Director
2021-	PhD Program in Health Policy and Clinical Practice	Co-Director

V. LICENSURE AND CERTIFICATION (IF APPLICABLE):

DATE	LICENSURE/CERTIFICATION
2012	PStat®, Accredited Professional Statistician
	American Statistical Association

VI. HOSPITAL APPOINTMENTS (IF APPLICABLE):

DATES	INSTITUTION	POSITION/TITLE		
N/A				

VII. OTHER PROFESSIONAL POSITIONS (NON-DARTMOUTH):

DATES	INSTITUTION	POSITION/TITLE	
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	Faculty Advisor	
	Research Network Grant		
	Yale University		

VIII. TEACHING ACTIVITIES:

A. UNDERGRADUATE MEDICAL EDUCATION):

DATES	INSTITUTION	NAME OF COURSE/ACTIVITY	ROLE	FREQUENCY	HOURS/YR
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-	Harvard	Health Care Policy	Lecturer	Yearly	4
2011	Medical School	(HC 750.0)		-	

B. GRADUATE EDUCATION:

DATES	INSTITUTION	NAME OF COURSE/ACTIVITY	ROLE	FREQUENCY	HOURS/YR
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:

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

		(ECS.245.1-TFA13, PH271)			
2013-	Geisel Medical School	Integrative Biomedical Sciences I (QBS 110)	Lecturer	Yearly	16
2014, 2015	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	Special Journal Club: Modeling Complex Data (QBS 193)	Lecturer	Once per week	150
2021-	Geisel Medical School	Responsible and Ethical Conduct for Research training (PH 700)	Lecturer	Once per year	16

D. UNDERGRADUATE COLLEGE:

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

2020	Dartmouth	Applications of Data	Guest	Once	9
	College	Science (CS 69/169)	lecturer		

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

<u>DATES</u>	NAME OF COURSE/ACTIVITY	ROLE	FREQUENCY	HOURS/YR
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: extracting, digitizing, and analyzing information from case files	Group Supervisor	Once	10

F. INVITED SHORT COURSES AND TUTORIALS

DATES	NAME OF COURSE/ACTIVITY	VENUE	LENGTH AND STUDENTS	PREPARATION TIME (HOURS)
2015, 2018, 2020, 2023	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:

DATE	NAME OF	ROLE	PROGRAM
	STUDENT		

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	Harvard 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	Harvard University
		(unofficial	
2013-2014	Alison Luciano	capacity) Advisor	Health Delieve and Clinical Practice Goisel
2013-2014	Alison Luciano		Health Policy and Clinical Practice, Geisel School of Medicine at Dartmouth
		(unofficial	School of Medicine at Dartiflouth
2013-2014	Dyounggua	capacity) Ph.D. Committee	Quantitative Biomedical Sciences, Geisel
2013-2014	Byounggug Kwon	qualifying exam	School of Medicine at Dartmouth
		member	
2014-2017	Elizabeth Nichols	Ph.D. Committee	Health Policy and Clinical Practice, Geisel
		member	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	Biomedical Informatics Specialist,
			Research Computing, Dartmouth College
2017-2020	Chuankai An	Co-Advisor Ph.D.	Computer Science, Dartmouth College
2017-2021	Guanqing Chen	Advisor Ph.D.	Research Scientist, Beth Israel Deaconess
			Medical Center and Harvard Medical
			School
2017-2021	Carly Bobak	Co-Advisor	Biomedical Informatics Specialist,
		Ph.D.	Research Computing, Dartmouth College
2018	Benjamin Ricard	QBS rotation	Quantitative Biomedical Sciences, Geisel
			School of Medicine at Dartmouth
2018-2020	Helen Newton	Ph.D. Committee	Health Policy and Clinical Practice, Geisel
		member	School of Medicine at Dartmouth
2018	Xin Ran	QBS rotation	Quantitative Biomedical Sciences, Geisel
			School of Medicine at Dartmouth
2018-2023	Xin Ran	Advisor Ph.D.	Takeda Pharmaceutical Company
2018-2021	Xingyu Zheng	Ph.D. Committee	Quantitative Biomedical Sciences, Geisel
		member	School of Medicine at Dartmouth
2019	Joshua Levy	QBS Rotation	Quantitative Biomedical Sciences, Geisel
			School of Medicine at Dartmouth
2019-2023	Renata West Yen	Ph.D. Committee	Health Policy and Clinical Practice, Geisel
		member	School of Medicine at Dartmouth
2020	Shuai Jiang	QBS Rotation	Quantitative Biomedical Sciences, Geisel
			School of Medicine at Dartmouth
2020-2022	Reed Bratches	Ph.D. Committee	Health Policy and Clinical Practice, Geisel
		member	School of Medicine at Dartmouth
2020-2022	Catherine Pollack	Ph.D. Committee	Quantitative Biomedical Sciences, Geisel
		member	School of Medicine at Dartmouth
2020-2021	Joshua Levy	Ph.D. Committee	Quantitative Biomedical Sciences, Geisel
		member	School of Medicine at Dartmouth

2020	Timothy Renier	QBS Rotation	MD/PhD Program, Geisel School of
			Medicine at Dartmouth
2022	Bo Qin	QBS Rotation	Quantitative Biomedical Sciences, Geisel
			School of Medicine at Dartmouth
2022	Haobin Chen	QBS Rotation	Quantitative Biomedical Sciences, Geisel
			School of Medicine at Dartmouth
2022-	Bo Qin	Advisor Ph.D.	Quantitative Biomedical Sciences, Geisel
			School of Medicine at Dartmouth
2022-	Haobin Chen	Advisor Ph.D.	Quantitative Biomedical Sciences, Geisel
			School of Medicine at Dartmouth
2022-	Sarah Cornelius	Ph.D. Committee	Quantitative Biomedical Sciences, Geisel
		member	School of Medicine at Dartmouth
2022-	Bruno Scodari	Ph.D. Committee	Quantitative Biomedical Sciences, Geisel
		member	School of Medicine at Dartmouth
2022-	Min-Young Kim	Ph.D. Committee	Health Policy and Clinical Practice, Geisel
		member	School of Medicine at Dartmouth

B. UNDERGRADUATE STUDENT ADVISING:

DATE	NAME OF STUDENT	ROLE	PROGRAM
2016	Cory Stock	Advised and collaborated on work related to honors thesis and paper	Dartmouth College
2019	Deborah Feifer	Advised work on a research project at Geisel School of Medicine	Dartmouth College

C. POSTDOCTORAL FELLOWS OR MEDICAL FELLOWS

DATE	NAME OF	ROLE	<u>PROGRAM</u>
	FELLOW		
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	Professor, Medical University of
			South Carolina
2010-2012	Sudeshna Paul	Mentor, Postdoctoral Fellow	Associate Professor, Emory
			University
2011-2014	Jaeun Choi	Mentor Postdoctoral Fellow	Assistant Professor, Albert
			Einstein College of Medicine
2012-2013	Hirokazu Shirado	Advisor (unofficial capacity)	Associate Professor, University
			of Southern California

2014-2018	Erika Moen	Mentor R25 Postdoctoral	Assistant Professor, Geisel
		Fellow	School of Medicine at
			Dartmouth
2015-2017	Weston Viles	Co-Mentor R25 Postdoctoral	Assistant Professor, University
		Fellow	of Maine
2016-2018	Pablo Martinez-	Mentor, Postdoctoral Fellow	Assistant Professor, Dartmouth
	Camblor		Health Medical Center
2018-2020	Seho Park	Mentor, Postdoctoral Fellow	Assistant Professor, Indiana
			University School of Medicine
2021-2022	Carly Bobak	Mentor, Postdoctoral Fellow	Staff Research Computing,
			Lecturer Geisel School of
			Medicine at Dartmouth

D. FACULTY:

DATE	NAME OF FACULTY	ROLE	<u>PROGRAM</u>
2014-18	Valerie Lewis (Sociology)	Advisor	K01-award from NIH
2015-20	Hildreth Frost (Biomedical Data	Advisor	K01-award from NIH
	Science)		
2016-17	Annie Hoen (Epidemiology)	Advisor	COBRE-award
2017-18	Zhigang Li (Biomedical Data Science)	Senior faculty	Departmental mentoring
		mentor	program
2018-	Jennifer Emond (Biomedical Data	Advisor	K01-award from NIH
	Science)		
2018-2021	Erika Moen (Biomedical Data	Advisor	COBRE-award
	Science)		
2019-2022	Lauren Gilstrap (Cardiology)	Advisor	K01-award
		(substitute)	
2020-	Jesse Columbo (Vascular Surgery)	Advisor	K08-award prep, K08-award
2022-	Andrew Loehrer	Advisor	K08-award

X. RESEARCH FUNDING:

A. Current:

DATES	PROJECT TITLE/NUMBER	ROLE/ %EFFORT	SPONSOR	ANNUAL DIRECT COSTS
2022-2028	Comparing Healthcare visit Recording	Co-Investigator,	PCORI	
	and Open Notes to Improve Chronic	5-25%		
	iLlness care Experience in older			
	adults (the CHRONICLE Trial)			

2022-2027	The Effect of Clinic Visit Audio Recordings for Self-Management in Older Adults	Co-Investigator, 2.5-20%	NIH/NIA	
2022-2027	The Role of Visit Audio Recordings in Triadic Dementia Care	Co-Investigator, 5-15%	NIH/NIA	
2022-2024	Quality of Care for Children with Medical Complexity in the Military Health System and Association with Maternal Behavioral Health	Co-Investigator, 5-15%	DH/DoD	
2021-2026	The BASIC trial: Improving implementation of evidence-based approaches and surveillance to prevent bacterial transmission and infection	Multiple Principle Investigator, 2.5%-20%	NIH	\$817,288
2021-2026	Longitudinal Mixed Method Investigation of Social Networks and Affective States as Determinants of Smoking Behavior Among Cancer Patients	Principal investigator (sub-contract), 2.5%-5%	NIH/NCI	\$246,918
2021-2026	Improving cancer health equity by targeting physician networks	Co-Investigator, 5%	NIH/NCI	\$262,744
2021-2023	Tracking US Health Care Delivery: Wave 2 of a National Survey of Physician Practices	Co-investigator, 2%	RWJ Foundation	\$459,916
2021-2024	CONFIDENT: A randomized trial to increase COVID 19 vaccine confidence in long-term care workers	Co-Investigator, 5%	PCORI	\$1,140,018
2021-2024	Implementation of Effective Shared Decision-Making (SDM) Approaches in Practice Settings	Co-Investigator, 5% (not until 2023)	PCORI	\$396,481
2020-2024	Disparities in Access to and Outcomes of Cancer Surgery for Rural Medicare Patients	Co-Investigator, 7%	NIH/NCI	\$682,073
2019-2024	Center for Quantitative Biology: A focus on "omics", from organisms to single cells (COBRE)	Data Core Director, Co- investigator, 10%	NIH	\$1,800,000
2019-2023	Comparative Effectiveness of Direct Admission & Admission through Emergency Departments for Children	Principal investigator (sub-contract), 10%	PCORI	\$696,328
2019-2023	Integrated Physical and Mental Health Self-management Compared to Chronic Disease Self-management	Principal investigator (sub-contract), 5%	PCORI	\$1,199,898

2018-2024	Causes and Consequences of	Statistics and	NIH/NIA	\$1,625,280
	Healthcare Efficiency,	Network		
	2P01AG019783-16	Analysis Core		
		Director, 26%		

B. Past

DATES	PROJECT TITLE/NUMBER	ROLE/ %EFFORT	SPONSOR	ANNUAL DIRECT COSTS
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	Co-investigator, 20%	Novartis Pharmaceuticals Corporation	\$141,602

	Medicare Linked Database Study, ZOL446G US94			
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	Project Leader, 23%	National Institute on Aging	\$1,253,932
2008- 2013	AG0309301 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

2012- 2016	Proximity to Food Establishments and BMI in	Co-Principal Investigator	NIH/NHLBI	\$281,838
	the Framingham Heart Study, R01 HL109263- 01A1	(Subramanian), 10%		
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- 2016	Evaluating the Formation and Performance of ACOs Use of Institutional Care by the Sick and Frail Elderly: Promoting Coordination and Management through ACOs	Co-investigator, 5%	NIH/NIA	\$197,598
2015- 2020	NIA Mentored Career Development Award (K01) for Valerie Lewis	Mentor	K-award	\$0
2015- 2017	Translation of Lung Cancer Screening from Trial to Everyday Practice	Co-investigator, 5%	Commonwealth Fund	\$99,962
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 Outcomes and Expenditures, 1U01 AG046830	Co-investigator, 10%	NIH/NIA	\$522,322
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

2013- 2019	National Implementation of Medicare Advantage and Prescription Drug Plan CAHPS Survey, #9920120015	Co-investigator, 5-10%	CMS and RAND	\$13,744
2015- 2021	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
2017- 2019	Predicting SNP priors for Cancer GWASs, 1R01 LM012720-01	Co-investigator, 2.5%	NIH	\$125,000
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- 2021	Center for Molecular Epidemiology (COBRE)	Co-investigator, 5%	NIH	\$2,255,242
2020- 2021	Identifying Predictors of Hospital Admission from the ED Among the Elderly (Covid Supplement)	Principal investigator (Sub-contract), 7.5%	AHRQ	\$17,427
2020- 2021	Accelerating the Use of Evidence-based Innovation in Healthcare Systems, U19 (Covid supplement)	Data Core Director, Co- investigator, 5%	AHRQ	\$1,779,236
2020- 2022	Cost Talk: A Randomized Stepped Wedge Trial of Interventions Helping	Co-Investigator (sub-contract), 2%	NIH/NIDA	\$158,342

2019- 2021	Patients Discuss Cancer Care Costs with Clinicians During Shared Decision Making The Impact of Sharing Audio Recorded Clinic Visits on Self-Management in Older Adults: a Multisite Trial	Co-Investigator, 3%	NIH/NIA	\$918,357
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% (original effort)	NIH	\$400,000

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

DATE	INSTITUTION	TITLE
2016-2018	Geisel School of Medicine at Dartmouth	Associate Director, Program in
		Quantitative Biomedical Sciences
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
		Health Policy and Clinical Practice
2020-2021	Geisel School of Medicine at Dartmouth	Director, Ph.D. program in Health
		Policy and Clinical Practice

Name: O'Malley, A. James

2021-	Geisel School of Medicine at Dartmouth	Co-Director, Ph.D. program in Health
		Policy and Clinical Practice

XII. ENTREPRENEURIAL ACTIVITIES: N/A

XII. MAJOR COMMITTEE ASSIGNMENTS:

National/international

DATES	COMMITTEE	ROLE	INSTITUTION
2005, 2008,	Scientific Planning Committee	Member	International Conference on Health
2010	_		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	Co-Chair	International Conference on Health
	Health Policy Statistics		Policy Statistics
2013, 2015,	International Conference on	Advisory	International Conference on Health
2018	Health Policy Statistics	Committee	Policy Statistics
2012-2014	Health Policy Statistics Section	Member	American Statistical Association
	ASA Fellows Committee		
2014-2016	Health Policy Statistics Section	Chair	American Statistical Association
	ASA Fellows Committee		

Regional

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

Institutional

DATES	<u>COMMITTEE</u>	ROLE	INSTITUTION
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	Member	Harvard University
	(Health Policy)		
2014-	Quantitative Biomedical	Member	Geisel School of
	Sciences Program Admissions		Medicine at Dartmouth
	Committee		

2016	Dartmouth Science Strategy Working Group	Member	Dartmouth College
2016-2017	Biomedical Data Science	Member	Geisel School of
	Master's Degree Formation		Medicine at Dartmouth
	Committee		
2018	Team Science Committee	Member	Geisel School of
			Medicine at Dartmouth
2018-2020	Geisel Faculty Space	Member	Geisel School of
	Committee		Medicine at Dartmouth
2019	Biomedical Data Science,	Member	Geisel School of
	Search Committee for CTBH		Medicine at Dartmouth
	Faculty position		
2020-2021	The Dartmouth Institute, Search	Member	Geisel School of
	Committee for Diversity,		Medicine at Dartmouth
	Equity, Inclusion faculty		
	positions		

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

DATES	SOCIETY	ROLE
1994-present	The New Zealand Statistical Association	Member
	(NZSA)	
1995-present	The New Zealand Mathematical Society	Member
_	(NZMS)	
1998-present	The American Statistical Association (ASA)	Member
2003-present	Health Policy Statistics Section, American	Assistant Editor (2003-2006),
	Statistical Association	Chair-Elect (2007),
		Chair (2008),
		Past-Chair (2009),
		ASA Council of Sections
		Representative (2023-2025)
2003, 2004,	Special Emphasis Panel, National Institute of	Panel Member
2006	Mental Health	
2004-present	AcademyHealth	Member
2005-present	International Biometric Society	Member
2006-present	International Network for Social Network	Member
	Analysis (INSNA)	
2006, 2007,	Mental Health Services in Mental Health	Panel Member
2008	Specialty Settings, National Institute of Mental	
	Health	
2007	Special Emphasis Panel, Transition to Adulthood	Panel Member
	RFA, National Institute of Mental Health	

2007	Special Emphasis Panel, National Institute of	Panel Member
	Mental health and National Institute on Alcohol abuse and Alcoholism	
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	Statistical consultant
2015	Biostatistical Methods and Research Design Study Section (BMRD)	Panel Member
2016	Clinical Trials to Test the Effectiveness of Treatment, Preventive, and Services Interventions, National Institutes of Mental Health	Panel Member
2016, 2021	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,	Panel Member
	Preventive and Services Interventions (R34).	
	2018/05 ZMH1 ERB-K (03) S	
2018	Clinical Trials to Test the Effectiveness of	Panel Member
	Treatment, Preventive, and Services	
	Interventions (R01). 2018/05 ZMH1 ERB-K	
	(04) S	
2018	New England Statistical Society	Life Member
2019	NIMH Clinical Trials to Test the Effectiveness	Panel Member
	of Treatment, Preventive, and Services	
	Interventions (R01). 2019/10 ZMH1 ERB-B	
	(05) S	
2019	NIMH Advanced Laboratories for Accelerating	Panel Member
	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)	
2021	NIMH Clinical Trials to Test the Effectiveness	Panel Member
	of Treatment, Preventive, and Services	
	Interventions (R01, Collaborative RO1). Special	
	Emphasis Panel/Scientific Review Group	
	2021/05 ZMH1 ERB-B (04) R	
2022	NIMH Practice-Based Suicide Prevention	Panel Member
	Research Centers (P50)	
2022	PCORI consultation	Statistical consultant
2022	NIMH Special Emphasis Panel/Scientific	Panel Member
	Review Group 2023/01 SERV S Meeting	

XV. EDITORIAL BOARDS:

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

XVI. JOURNAL REFEREE ACTIVITY:

DATES	JOURNAL NAME
DITTES	JOOKI WE WIND

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-present	Sociological Methodology

XVII. AWARDS AND HONORS:

DATES	<u>DESCRIPTION</u>
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, 4th 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.
2021-	Peggy Y. Thomson Professorship in the Evaluative Clinical Sciences, Geisel School of
2025	Medicine at Dartmouth

XVIII. INVITED PRESENTATIONS:

International location:

DATE	TOPIC/TITLE	<u>ORGANIZATION</u>	LOCATION
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	Zi Congress in Health Services	Berlin, Germany
	social networks in the context of	Research	
	network analyses		

National location:

DATE	TOPIC/TITLE	ORGANIZATION	LOCATION
1995	The Application of Predictive	New Zealand Parole Board	Auckland, New
	Models of Recidivism to Parole		Zealand
	Board Decision Making		
1996	High Risk Offenders: A Step	Australasian Criminological	Wellington, New
	Toward More Accurate Prediction	Conference	Zealand
1999	The Minimum Detectable	National Center for	Boulder, CO
	Concentration of an Assay	Atmospheric Research	
1999	The Minimum Detectable	Division of Biostatistics,	Indianapolis, IN
	Concentration of an Assay	Department of Medicine,	
		Indiana University	
2000	Status Report on the Development of	Advanced Medical	Washington DC
	an Objective Performance Criterion	Technology Association	
	for Medical Devices		- 4 144 3 5 5
2000	On the use of Prior Information in	Center for Devices and	Rockville, MD
	Medical Device Testing: Methods	Radiological Health, Food	
2001	and Examples	and Drug Administration	C1 1 · · · · · · · · · · · · · · · · · ·
2001	Section on Design & Analysis of	International Biometric	Charlotte, NC
	Medical Device Trials: Regulatory,	Society Eastern North	
2001	Industry, and Clinical Perspectives	American Region	T 1' 1' TNI
2001	Bayesian Sample Size Calculations	Division of Biostatistics,	Indianapolis, IN
	for Historically-Controlled Clinical	Department of Medicine,	
	Trials with Adjustment for Covariates	Indiana University	
2002	Historical Controlled Medical	Purdue University	West Lafayette,
2002	Device Clinical Trials: Design,	Furdue Oniversity	IN
	Analysis, and Communicating with		111
	the FDA and Industry		
2002	Bayesian Hierarchical	American Statistical	New York, NY
2002	Transformation Models for Receiver	Association	Tiew Tork, Ti
	Operating Characteristic Curve	1 issociation	
	Analysis		
2002	Modeling Treatment Use &	International Biometric	Pittsburgh, PA
	Effectiveness in Mental Illness,	Society Eastern North	<i>G</i> ,
	Accounting for Treatment	American Region	
	Noncompliance and Missing		
	Outcomes in Randomized Trials		
2004	Accounting for Treatment-	Worcester Polytechnic	Worcester, MA
	Noncompliance and Missing	Institute	

	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	Applied Statistics	
	for Survey Data	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 Annual Research Meeting	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
2021	Enabling causal inference through parameter expansion of the Cox model to allow effects to vary with follow-up	American Statistical Association, Joint Statistical Meetings	Virtual Session
2022	Methods Workshop: Discussion on New Weighting Methods for Health Policy Research	AcademyHealth Annual Research Meeting	Washington DC, Virtual talk
2022	The Diffusion of Health Care Fraud: A Network Analysis	Dartmouth 2022 Summer Data Science, Artificial Intelligence and Machine Learning Webinar Series, combined event with Boston Chapter of the ASA	Virtual talk
2022	The Diffusion of Health Care Fraud: A Network Analysis	American Statistical Association, Joint Statistical Meetings	Washington, DC
2023	Constructing Optimal Shared-Patient Physician Networks to Advance Study of the Diffusion of Medical Practices	Georgetown University	Virtual talk
2023	Constructing Optimal Shared-Patient Physician Networks to Advance Study of the Diffusion of Medical Practices	International Chinese Statistical Association Applied Statistics Symposium	Ann Arbor, Michigan
2023	Instrumental Variable Methods for Time-to-Event Analysis When Treatment Onset is Variable	American Statistical Association, Joint Statistical Meetings	Toronto, Canada
2023	TBD	University of Kansas Medical Center	Kansas City, Kansas

Regional/local location:

	DATE	TOPIC/TITLE	ORGANIZATION	LOCATION
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1993	A Novel DOE for Comparing	Firestone Tire and Rubber	Christchurch,
1,,,,	Multiple Designs of Tires	Company	New Zealand
1996	Where to From Here?	Department of Corrections	Christchurch,
1,7,0	Where to I fold Here.	Bepartment of corrections	New Zealand
2000	The Minimum Detectable	Department of Health Care	Boston, MA
2000	Concentration of an Assay/HCP	Policy, Harvard Medical School	Bestein, ivii i
	Seminar Series in Statistics	1 0110), 1102 (010 1/10 01001 2 0110 01	
2001	Design & Analysis of Medical	Department of Biostatistics,	Boston, MA
	Device Clinical Trials/Bayesian	Harvard School of Public	
	Methodology Working Group	Health	
	Seminar		
2002	Analysis & Design of Medical	Effective and Affordable Health	Boston, MA
	Device Clinical Trials/Technology	Care Seminar, Harvard	
	Assessment Group	University	
2003	Statistical Methods for Developing	Effective and Affordable Health	Boston, MA
	Recommendations for Use of	Care Seminar, Harvard	
	Coronary-Artery Stents/ Technology	University	
	Assessment Group		
2003	Application of Models for	Center for Health Quality,	New Bedford,
	Multivariate Mixed Outcomes to	Outcomes & Economics	MA
	Medical Device Trials: Coronary	Research	
	Artery Stenting		
2004	New Statistical Methods for	Effective and Affordable Health	Boston, MA
	Detecting Improvements in and	Care Seminar, Harvard	
	Developing Recommendations for	University	
	Using Medical Devices: Coronary-		
2004	Artery Stents	D CD 1: 1	D 4 MA
2004	Design and Analysis of Medical	Department of Radiology,	Boston, MA
2005	Device Clinical Trials	Harvard Medical School	Danta MA
2005	Statistical Methods for Evaluating the Consumer Assessments of	Effective and Affordable Health	Boston, MA
		Care Seminar	
	Health Plans. Technology	Harvard University	
2005	Assessment Group Hierarchical Factor Analysis for	Department of Biostatistics,	Boston, MA
2003	Survey Data with Structured	Harvard School of Public	Doston, MA
	Nonresponse/Bayesian Methodology	Health	
	Working Group Seminar	Tieutii	
2006	Likelihood Methods for	Effective and Affordable Health	Boston, MA
_000	Longitudinal Randomized Trials:	Care Seminar, Harvard	2000011, 17111
	Accounting for Treatment	University	
	Noncompliance and Missing		
	Outcomes. Technology Assessment		
	Group		
2007	Bayesian Methods for Analyzing	Clinical Research Program,	Boston, MA
	Data in Cardiology and Radiology	Children's Hospital	

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 School of Medicine at Dartmouth	Lebanon, NH
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

Name: O'Malley, A. James

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B. Non-peer-reviewed publications in print or other media

Original articles:

- 1. O'Malley AJ. Radioimmunoassay Analysis: An Overview. In: Neyland J, Clark M, editors. Proceedings of the NZSA Conference: Research in the Learning of Statistics, 1996, 62-66.
- 2. O'Malley AJ, Normand S-LT, Kuntz RE. Power Calculation For Historically-Controlled Clinical Trials. ASA Proceedings of the Bayesian Statistical Sciences Section, 2000, 72-77.
- **3.** Zou KH, **O'Malley AJ**. Bayesian Regression Methodology for Receiver Operating Characteristic Curve Analysis. Applied Stochastic Models and Data Analysis, Proceedings of 10th International Symposium, 2001, 1043-1048.
- **4. O'Malley, AJ**, Zou, KH. Bayesian Hierarchical Transformation Models For Receiver Operating Characteristic Curve Analysis. ASA Proceedings of the Health Policy Statistics Section. 2002, 2541-2550.
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- 8. **O'Malley AJ**, Zaslavsky AM. Optimal Survey Design When Nonrespondents are Subsampled for Followup. ASA Proceedings of the Survey Research Methods Section 2007, 3268-3273.
- 9. **O'Malley AJ**, Christakis NA. The Role of Health and Health Traits in the Longitudinal Formation and Dissolution of Friendship Ties. ASA Proceedings of the Health Policy Statistics Section 2008, 4290-4297.
- 10. **O'Malley AJ**, Frank RG, Normand S-LT. Comparing Traditional Instrumental Variables Estimation to Parametric Modeling of a Problem in Health Policy. ASA Proceedings of the Health Policy Statistics Section 2008, 1181-1188.
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- 13. Paul S, **O'Malley AJ**. Conditionally Dyadic Independent Models for Longitudinal Analysis of the Effect of Health Traits on Relationships in a Social Network. ASA Proceedings of the Biometrics Section 2011, 61-75.
- 14. Choi J, **O'Malley AJ**. Estimating the Causal Effect of Treatment in Observational Studies with Survival Time Endpoints and Unmeasured Confounding. ASA Proceedings of the Health Policy Statistics Section 2014, 1893-1907.
- 15. **O'Malley AJ**, Park S. A Novel Cluster Sampling Design that Entwines Three Surveys to Support Multiple Statistical Objectives. ASA Proceedings of the Health Policy Statistics Section 2019, 2656-2676.
- 16. Viles WD, **O'Malley AJ**. Constrained Community Detection in Social Networks 2017, arXiv, 1708.04354. doi: https://arxiv.org/abs/1708.04354
- 17. Levy JJ, Bobak CA, Christensen B, Vaickus L, **O'Malley AJ**. Estimating latent positions of actors using Neural Networks in R with GCN4R. 2020, bioRxiv 2020.11.02.364935; doi: https://doi.org/10.1101/2020.11.02.364935
- 18. Levy JJ, Bobak CA, Azizgolshani N, Andersen M, Suriawinata A, Liu X, Lisovsky M, Ren B, Christensen B, Vaickus L, **O'Malley AJ**. 2021. Bridge Category Models: Development of Bayesian Modelling Procedures to Account for Bridge Ordinal Ratings for Disease Staging. BioRxiv 2021.08.26; doi: https://doi.org/10.1101/2021.08.17.456726.
- 19. Bobak CA, Zhao Y, Levy JJ, **O'Malley AJ**. GRANDPA: GeneRAtive Network sampling using Degree and Property Augmentation applied to the analysis of partially confidential healthcare networks, arXiv preprint arXiv:2211.15000, 2022

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- 1. **O'Malley AJ**. Statistical Models for Recidivism. Research Report for Psychological Service, Department of Corrections, Christchurch, New Zealand. 1996.
- 2. Bakker L, **O'Malley AJ**, Riley D. Storm Warning: Statistical Models for Predicting Violence. Psychological Service, Department of Corrections, New Zealand Publication. 1998. Publication no.: ISBN 0-478-11303-X.
- 3. Bakker L, **O'Malley AJ**, Riley D. End of the Road: Identifying High Risk Traffic Offenders. Psychological Service, Department of Corrections, New Zealand. 1998 Publication no.: ISBN 0-478-11304-8.

4. **O'Malley AJ**, Becker R. Quality Improvement Plan for a Small Manufacturing Company (Client's name confidential). Technical Assistance Program, Purdue University Publication. 1998. Report no.: TAP980605.

- 5. **O'Malley AJ**, Becker R. Guidelines on the Sample Size for checking the Accuracy of Employee Records (Client's name confidential). Technical Assistance Program, Purdue University Publication. 1998. Report no.: TAP980417.
- 6. **O'Malley AJ**, Normand S-L, Kuntz RE. Estimation of the Objective Performance Criterion for Medical Device Clinical Trials: Coronary-Artery Stenting. Technical Series in Statistics, Department of Health Care Policy, Report #HCP 2001-3.
- 7. Neelon BH, **O'Malley**, **AJ**. The Use of Power Prior Distributions for Incorporating Historical Data into a Bayesian Analysis. Duke University, Durham, NC: CEHI Working Paper 2010-01.

 Available at: http://www.nicholas.duke.edu/cehi/resources/Neelon_Working_Paper_CEHI_2010-01.pdf
- 8. Shaller D, **O'Malley AJ**, Zema C. Patient Experience Survey Study of Equivalency: Comparison of CG-CAHPS Visit Questions Added to the CG-CAHPS PCMH Survey. Summary report submitted to: Minnesota Department of Health, Health Care Homes Unit

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 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, measurement of 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 have taught multiple 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 Statistics in Medicine, Health Services and Outcomes Research Methodology, and Observational Studies and as a reviewer for over 20 respected academic journals. From 2018-2020 I served as Director of the Program in Quantitative Biomedical Sciences at Dartmouth and I have been Interim-Director (2019-2020), Director (2020-2021), and Co-Director (2021-current) of the Ph.D. Program in Clinical and Evaluative Sciences at Dartmouth.

In recognition of many of the above contributions, I was elected fellow of the American Statistical Association (ASA) in 2012. I have also been awarded the 2011 Mid-Career Award by the Health Policy Statistics Section of the ASA (at the time of the award, a single award was given biannually) and 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. In 2021,

I was appointed to the Peggy Y. Thomson Professorship in the Evaluative Clinical Sciences in the Geisel School of Medicine at Dartmouth.