Susan A Murphy

List of Publications by Year in Descending Order

94 papers	7,073 citations	36 h-index	84 g-index
111 ext. papers	8,826 ext. citations	4.6 avg, IF	6.06 L-index

#	Paper	IF	Citations
94	Cost and Effort Considerations for the Development of Intervention Studies Using Mobile Health Platforms: Pragmatic Case Study.. *JMIR Formative Research*, **2022**, 6, e29988	2.5	
93	The microrandomized trial for developing digital interventions: Experimental design and data analysis considerations.. *Psychological Methods*, **2022**,	7.1	6
92	Translating strategies for promoting engagement in mobile health: A proof-of-concept microrandomized trial. *Health Psychology*, **2021**,	5	4
91	IntelligentPooling: Practical Thompson Sampling for mHealth. *Machine Learning*, **2021**, 110, 2685-2727	4	0
90	The mobile assistance for regulating smoking (MARS) micro-randomized trial design protocol. *Contemporary Clinical Trials*, **2021**, 110, 106513	2.3	3
89	Estimating time-varying causal excursion effect in mobile health with binary outcomes. *Biometrika*, **2021**, 108, 507-527	2	9
88	Off-Policy Estimation of Long-Term Average Outcomes with Applications to Mobile Health. *Journal of the American Statistical Association*, **2021**, 116, 382-391	2.8	6
87	Developing an Adaptive Mobile Intervention to Address Risky Substance Use Among Adolescents and Emerging Adults: Usability Study. *JMIR MHealth and UHealth*, **2021**, 9, e24424	5.5	10
86	Rejoinder: REstimating time-varying causal excursion effects in mobile health with binary outcomesR *Biometrika*, **2021**, 108, 551-555	2	4
85	Understanding Adolescent and Young Adult 6-Mercaptopurine Adherence and mHealth Engagement During Cancer Treatment: Protocol for Ecological Momentary Assessment. *JMIR Research Protocols*, **2021**, 10, e32789	2	1
84	Sense2Stop: A micro-randomized trial using wearable sensors to optimize a just-in-time-adaptive stress management intervention for smoking relapse prevention. *Contemporary Clinical Trials*, **2021**, 109, 106534	2.3	5
83	Power Constrained Bandits.. *Proceedings of Machine Learning Research*, **2021**, 149, 209-259	0.4	
82	Developments in Mobile Health Just-in-Time Adaptive Interventions for Addiction Science. *Current Addiction Reports*, **2020**, 7, 280-290	3.9	9
81	Microrandomized trials for promoting engagement in mobile health data collection: Adolescent/young adult oral chemotherapy adherence as an example. *Current Opinion in Systems Biology*, **2020**, 21, 1-8	3.2	4
80	Personalized HeartSteps: A Reinforcement Learning Algorithm for Optimizing Physical Activity **2020**, 4,		18
79	THE STRATIFIED MICRO-RANDOMIZED TRIAL DESIGN: SAMPLE SIZE CONSIDERATIONS FOR TESTING NESTED CAUSAL EFFECTS OF TIME-VARYING TREATMENTS. *Annals of Applied Statistics*, **2020**, 14, 661-684	2.1	11
78	Linear mixed models with endogenous covariates: modeling sequential treatment effects with application to a mobile health study. *Statistical Science*, **2020**, 35, 375-390	2.4	5

77	Optimizing an Acceptance and Commitment Therapy Microintervention Via a Mobile App With Two Cohorts: Protocol for Micro-Randomized Trials. *JMIR Research Protocols*, **2020**, 9, e17086	2	2
76	An Individualized, Data-Driven Digital Approach for Precision Behavior Change. *American Journal of Lifestyle Medicine*, **2020**, 14, 289-293	1.9	10
75	Inference for Batched Bandits.. *Advances in Neural Information Processing Systems*, **2020**, 33, 9818-9829	2.2	0
74	Practical Considerations for Data Collection and Management in Mobile Health Micro-randomized Trials. *Statistics in Biosciences*, **2019**, 11, 355-370	1.5	8
73	ReVibe: A Context-assisted Evening Recall Approach to Improve Self-report Adherence **2019**, 3, 1-27		14
72	Adaptive Intervention Designs in Substance Use Prevention. *Advances in Prevention Science*, **2019**, 263-280	0.9	2
71	Optimizing mHealth Interventions with a Bandit. *Studies in Neuroscience, Psychology and Behavioral Economics*, **2019**, 277-291	1.8	10
70	Artificial intelligence decision-making in mobile health. *Biochemist*, **2019**, 41, 20-24	0.5	9
69	A smartphone-based behavioural activation application using recommender system **2019**,		1
68	Efficacy of Contextually Tailored Suggestions for Physical Activity: A Micro-randomized Optimization Trial of HeartSteps. *Annals of Behavioral Medicine*, **2019**, 53, 573-582	4.5	55
67	Standardized Effect Sizes for Preventive Mobile Health Interventions in Micro-randomized Trials. *Prevention Science*, **2019**, 20, 100-109	4	14
66	Optimizing Digital Integrated Care via Micro-Randomized Trials. *Clinical Pharmacology and Therapeutics*, **2018**, 104, 53-58	6.1	21
65	Just-in-Time Adaptive Interventions (JITAIs) in Mobile Health: Key Components and Design Principles for Ongoing Health Behavior Support. *Annals of Behavioral Medicine*, **2018**, 52, 446-462	4.5	675
64	Micro-Randomized Trial **2018**, 1-6		
63	To Prompt or Not to Prompt? A Microrandomized Trial of Time-Varying Push Notifications to Increase Proximal Engagement With a Mobile Health App. *JMIR MHealth and UHealth*, **2018**, 6, e10123	5.5	55
62	Toward Increasing Engagement in Substance Use Data Collection: Development of the Substance Abuse Research Assistant App and Protocol for a Microrandomized Trial Using Adolescents and Emerging Adults. *JMIR Research Protocols*, **2018**, 7, e166	2	19
61	Assessing Time-Varying Causal Effect Moderation in Mobile Health. *Journal of the American Statistical Association*, **2018**, 113, 1112-1121	2.8	42
60	Just-in-Time but Not Too Much: Determining Treatment Timing in Mobile Health **2018**, 2,		21

59	Optimizing delivery of a behavioral pain intervention in cancer patients using a sequential multiple assignment randomized trial SMART. *Contemporary Clinical Trials*, **2017**, 57, 51-57	2.3	15
58	Center of Excellence for Mobile Sensor Data-to-Knowledge (MD2K). *IEEE Pervasive Computing*, **2017**, 16, 18-22	1.3	12
57	SARA: A Mobile App to Engage Users in Health Data Collection **2017**, 2017, 781-789		24
56	Design Lessons from a Micro-Randomized Pilot Study in Mobile Health **2017**, 59-82		7
55	wrapper: Operationalizing engagement strategies in mHealth **2017**, 2017, 790-798		8
54	Action Centered Contextual Bandits. *Advances in Neural Information Processing Systems*, **2017**, 30, 5973-5981	2.2	6
53	From Ads to Interventions: Contextual Bandits in Mobile Health **2017**, 495-517		22
52	A Pilot SMART for Developing an Adaptive Treatment Strategy for Adolescent Depression. *Journal of Clinical Child and Adolescent Psychology*, **2016**, 45, 480-94	5.4	38
51	Treatment Sequencing for Childhood ADHD: A Multiple-Randomization Study of Adaptive Medication and Behavioral Interventions. *Journal of Clinical Child and Adolescent Psychology*, **2016**, 45, 396-415	5.4	132
50	Sample size calculations for micro-randomized trials in mHealth. *Statistics in Medicine*, **2016**, 35, 1944-71	2.3	60
49	Comparing treatment policies with assistance from the structural nested mean model. *Biometrics*, **2016**, 72, 10-9	1.8	2
48	Center of excellence for mobile sensor data-to-knowledge (MD2K). *Journal of the American Medical Informatics Association: JAMIA*, **2015**, 22, 1137-42	8.6	38
47	Microrandomized trials: An experimental design for developing just-in-time adaptive interventions. *Health Psychology*, **2015**, 34S, 1220-8	5	255
46	Randomised trials for the Fitbit generation. *Significance*, **2015**, 12, 20-23	0.5	25
45	Time-varying effect moderation using the structural nested mean model: estimation using inverse-weighted regression with residuals. *Statistics in Medicine*, **2014**, 33, 3466-87	2.3	9
44	Introduction to SMART designs for the development of adaptive interventions: with application to weight loss research. *Translational Behavioral Medicine*, **2014**, 4, 260-74	3.2	210
43	Communication interventions for minimally verbal children with autism: a sequential multiple assignment randomized trial. *Journal of the American Academy of Child and Adolescent Psychiatry*, **2014**, 53, 635-46	7.2	220
42	Designing adaptive intensive interventions using methods from engineering. *Journal of Consulting and Clinical Psychology*, **2014**, 82, 868-78	6.5	26

41	Dynamic treatment regimes: technical challenges and applications. *Electronic Journal of Statistics*, **2014**, 8, 1225-1272	1.2	77
40	Dynamic Treatment Regimes. *Annual Review of Statistics and Its Application*, **2014**, 1, 447-464	7.6	84
39	Protocol: Adaptive Implementation of Effective Programs Trial (ADEPT): cluster randomized SMART trial comparing a standard versus enhanced implementation strategy to improve outcomes of a mood disorders program. *Implementation Science*, **2014**, 9, 132	8.4	56
38	A multiple imputation strategy for sequential multiple assignment randomized trials. *Statistics in Medicine*, **2014**, 33, 4202-14	2.3	32
37	Subgroups analysis when treatment and moderators are time-varying. *Prevention Science*, **2013**, 14, 169-78	4	12
36	Mobile health technology evaluation: the mHealth evidence workshop. *American Journal of Preventive Medicine*, **2013**, 45, 228-36	6.1	582
35	Batch Mode Reinforcement Learning based on the Synthesis of Artificial Trajectories. *Annals of Operations Research*, **2013**, 208, 383-416	3.2	15
34	Q-learning: a data analysis method for constructing adaptive interventions. *Psychological Methods*, **2012**, 17, 478-94	7.1	103
33	The prevention and treatment of missing data in clinical trials. *New England Journal of Medicine*, **2012**, 367, 1355-60	59.2	856
32	Experimental design and primary data analysis methods for comparing adaptive interventions. *Psychological Methods*, **2012**, 17, 457-477	7.1	167
31	Designing a pilot sequential multiple assignment randomized trial for developing an adaptive treatment strategy. *Statistics in Medicine*, **2012**, 31, 1887-902	2.3	123
30	SMART Design Issues and the Consideration of Opposing Outcomes: Discussion of "Evaluation of Viable Dynamic Treatment Regimes in a Sequentially Randomized Trial of Advanced Prostate Cancer" by by Wang, Rotnitzky, Lin, Millikan, and Thall. *Journal of the American Statistical Association*, **2012**, 107, 509-512	2.8	18
29	SMARTer discontinuation trial designs for developing an adaptive treatment strategy. *Journal of Child and Adolescent Psychopharmacology*, **2012**, 22, 364-74	2.9	19
28	Linear Fitted-Q Iteration with Multiple Reward Functions. *Journal of Machine Learning Research*, **2012**, 13, 3253-3295	28.6	34
27	Dynamic Treatment Regimes **2012**, 127-148		4
26	Informing sequential clinical decision-making through reinforcement learning: an empirical study. *Machine Learning*, **2011**, 84, 109-136	4	72
25	Variable selection for qualitative interactions in personalized medicine while controlling the family-wise error rate. *Journal of Biopharmaceutical Statistics*, **2011**, 21, 1063-78	1.3	37
24	Active learning for personalizing treatment **2011**,		4

23	Adaptive Confidence Intervals for the Test Error in Classification. *Journal of the American Statistical Association*, **2011**, 106, 904-913	2.8	39
22	Active exploration by searching for experiments that falsify the computed control policy **2011**,		1
21	PERFORMANCE GUARANTEES FOR INDIVIDUALIZED TREATMENT RULES. *Annals of Statistics*, **2011**, 39, 1180-1210	3.2	255
20	Sample size formulae for two-stage randomized trials with survival outcomes. *Biometrika*, **2011**, 98, 503-518	2	27
19	Towards Min Max Generalization in Reinforcement Learning. *Communications in Computer and Information Science*, **2011**, 61-77	0.3	3
18	Structural nested mean models for assessing time-varying effect moderation. *Biometrics*, **2010**, 66, 131-9	1.8	37
17	Inference for non-regular parameters in optimal dynamic treatment regimes. *Statistical Methods in Medical Research*, **2010**, 19, 317-43	2.3	84
16	Investigating the impact of selection bias in dose-response analyses of preventive interventions. *Prevention Science*, **2010**, 11, 239-51	4	16
15	Comparison of a phased experimental approach and a single randomized clinical trial for developing multicomponent behavioral interventions. *Clinical Trials*, **2009**, 6, 5-15	2.2	48
14	Inferring bounds on the performance of a control policy from a sample of trajectories **2009**,		4
13	Developing multicomponent interventions using fractional factorial designs. *Statistics in Medicine*, **2009**, 28, 2687-708	2.3	63
12	Screening experiments and the use of fractional factorial designs in behavioral intervention research. *American Journal of Public Health*, **2008**, 98, 1354-9	5.1	41
11	The multiphase optimization strategy (MOST) and the sequential multiple assignment randomized trial (SMART): new methods for more potent eHealth interventions. *American Journal of Preventive Medicine*, **2007**, 32, S112-8	6.1	621
10	Developing adaptive treatment strategies in substance abuse research. *Drug and Alcohol Dependence*, **2007**, 88 Suppl 2, S24-30	4.9	151
9	Constructing evidence-based treatment strategies using methods from computer science. *Drug and Alcohol Dependence*, **2007**, 88 Suppl 2, S52-60	4.9	33
8	Examining clinical judgment in an adaptive intervention design: The fast track program. *Journal of Consulting and Clinical Psychology*, **2006**, 74, 468-81	6.5	34
7	Assessing the total effect of time-varying predictors in prevention research. *Prevention Science*, **2006**, 7, 1-17	4	17
6	A strategy for optimizing and evaluating behavioral interventions. *Annals of Behavioral Medicine*, **2005**, 30, 65-73	4.5	305

5	A Generalization Error for Q-Learning. *Journal of Machine Learning Research*, **2005**, 6, 1073-1097	28.6	87
4	A conceptual framework for adaptive preventive interventions. *Prevention Science*, **2004**, 5, 185-96	4	423
3	Two-level proportional hazards models. *Biometrics*, **2002**, 58, 754-63	1.8	11
2	6. Discrete-Time Multilevel Hazard Analysis. *Sociological Methodology*, **2000**, 30, 201-235	2.6	131
1	Dynamic Treatment Regimens		3