

Susan A Murphy

List of Publications by Year in descending order

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Version: 2024-02-01

99
papers

10,282
citations

94269

37
h-index

48187

88
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111
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111
docs citations

111
times ranked

11418
citing authors

#	ARTICLE	IF	CITATIONS
1	Just-in-Time Adaptive Interventions (JITAs) in Mobile Health: Key Components and Design Principles for Ongoing Health Behavior Support. <i>Annals of Behavioral Medicine</i> , 2018, 52, 446-462.	1.7	1,232
2	The Prevention and Treatment of Missing Data in Clinical Trials. <i>New England Journal of Medicine</i> , 2012, 367, 1355-1360.	13.9	1,141
3	The Multiphase Optimization Strategy (MOST) and the Sequential Multiple Assignment Randomized Trial (SMART). <i>American Journal of Preventive Medicine</i> , 2007, 32, S112-S118.	1.6	832
4	Mobile Health Technology Evaluation. <i>American Journal of Preventive Medicine</i> , 2013, 45, 228-236.	1.6	797
5	A Conceptual Framework for Adaptive Preventive Interventions. <i>Prevention Science</i> , 2004, 5, 185-196.	1.5	508
6	Microrandomized trials: An experimental design for developing just-in-time adaptive interventions.. <i>Health Psychology</i> , 2015, 34, 1220-1228.	1.3	449
7	A strategy for optimizing and evaluating behavioral interventions. <i>Annals of Behavioral Medicine</i> , 2005, 30, 65-73.	1.7	392
8	Performance guarantees for individualized treatment rules. <i>Annals of Statistics</i> , 2011, 39, 1180-1210.	1.4	341
9	Introduction to SMART designs for the development of adaptive interventions: with application to weight loss research. <i>Translational Behavioral Medicine</i> , 2014, 4, 260-274.	1.2	306
10	Communication Interventions for Minimally Verbal Children With Autism: A Sequential Multiple Assignment Randomized Trial. <i>Journal of the American Academy of Child and Adolescent Psychiatry</i> , 2014, 53, 635-646.	0.3	279
11	Experimental design and primary data analysis methods for comparing adaptive interventions.. <i>Psychological Methods</i> , 2012, 17, 457-477.	2.7	215
12	Treatment Sequencing for Childhood ADHD: A Multiple-Randomization Study of Adaptive Medication and Behavioral Interventions. <i>Journal of Clinical Child and Adolescent Psychology</i> , 2016, 45, 396-415.	2.2	183
13	Developing adaptive treatment strategies in substance abuse research. <i>Drug and Alcohol Dependence</i> , 2007, 88, S24-S30.	1.6	176
14	Designing a pilot sequential multiple assignment randomized trial for developing an adaptive treatment strategy. <i>Statistics in Medicine</i> , 2012, 31, 1887-1902.	0.8	165
15	6. Discrete-Time Multilevel Hazard Analysis. <i>Sociological Methodology</i> , 2000, 30, 201-235.	1.4	161
16	Efficacy of Contextually Tailored Suggestions for Physical Activity: A Micro-randomized Optimization Trial of HeartSteps. <i>Annals of Behavioral Medicine</i> , 2019, 53, 573-582.	1.7	137
17	Dynamic Treatment Regimes. <i>Annual Review of Statistics and Its Application</i> , 2014, 1, 447-464.	4.1	136
18	To Prompt or Not to Prompt? A Microrandomized Trial of Time-Varying Push Notifications to Increase Proximal Engagement With a Mobile Health App. <i>JMIR MHealth and UHealth</i> , 2018, 6, e10123.	1.8	132

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19	Q-learning: A data analysis method for constructing adaptive interventions.. Psychological Methods, 2012, 17, 478-494.	2.7	130
20	Inference for non-regular parameters in optimal dynamic treatment regimes. Statistical Methods in Medical Research, 2010, 19, 317-343.	0.7	112
21	Informing sequential clinical decision-making through reinforcement learning: an empirical study. Machine Learning, 2011, 84, 109-136.	3.4	105
22	A Generalization Error for Q-Learning. Journal of Machine Learning Research, 2005, 6, 1073-1097.	62.4	100
23	Dynamic treatment regimes: Technical challenges and applications. Electronic Journal of Statistics, 2014, 8, 1225-1272.	0.4	98
24	Assessing Time-Varying Causal Effect Moderation in Mobile Health. Journal of the American Statistical Association, 2018, 113, 1112-1121.	1.8	92
25	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.	2.5	89
26	Sample size calculations for micro-randomized trials in mHealth. Statistics in Medicine, 2016, 35, 1944-1971.	0.8	89
27	Methodological Challenges in Constructing Effective Treatment Sequences for Chronic Psychiatric Disorders. Neuropsychopharmacology, 2007, 32, 257-262.	2.8	87
28	Developing multicomponent interventions using fractional factorial designs. Statistics in Medicine, 2009, 28, 2687-2708.	0.8	83
29	Customizing treatment to the patient: Adaptive treatment strategies. Drug and Alcohol Dependence, 2007, 88, S1-S3.	1.6	80
30	Comparison of a phased experimental approach and a single randomized clinical trial for developing multicomponent behavioral interventions. Clinical Trials, 2009, 6, 5-15.	0.7	61
31	Screening Experiments and the Use of Fractional Factorial Designs in Behavioral Intervention Research. American Journal of Public Health, 2008, 98, 1354-1359.	1.5	58
32	A Pilot SMART for Developing an Adaptive Treatment Strategy for Adolescent Depression. Journal of Clinical Child and Adolescent Psychology, 2016, 45, 480-494.	2.2	54
33	Adaptive Confidence Intervals for the Test Error in Classification. Journal of the American Statistical Association, 2011, 106, 904-913.	1.8	50
34	Optimizing Digital Integrated Care via Micro-Randomized Trials. Clinical Pharmacology and Therapeutics, 2018, 104, 53-58.	2.3	50
35	Personalized HeartSteps. , 2020, 4, 1-22.		50
36	Center of excellence for mobile sensor data-to-knowledge (MD2K). Journal of the American Medical Informatics Association: JAMIA, 2015, 22, 1137-1142.	2.2	48

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37	Engagement in digital interventions.. American Psychologist, 2022, 77, 836-852.	3.8	48
38	Variable Selection for Qualitative Interactions in Personalized Medicine While Controlling the Family-Wise Error Rate. Journal of Biopharmaceutical Statistics, 2011, 21, 1063-1078.	0.4	44
39	Structural Nested Mean Models for Assessing Time-Varying Effect Moderation. Biometrics, 2010, 66, 131-139.	0.8	43
40	From Ads to Interventions: Contextual Bandits in Mobile Health. , 2017, , 495-517.		43
41	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.	0.5	42
42	Examining clinical judgment in an adaptive intervention design: The fast track program.. Journal of Consulting and Clinical Psychology, 2006, 74, 468-481.	1.6	41
43	Developments in Mobile Health Just-in-Time Adaptive Interventions for Addiction Science. Current Addiction Reports, 2020, 7, 280-290.	1.6	40
44	A multiple imputation strategy for sequential multiple assignment randomized trials. Statistics in Medicine, 2014, 33, 4202-4214.	0.8	38
45	Linear Fitted-Q Iteration with Multiple Reward Functions. Journal of Machine Learning Research, 2012, 13, 3253-3295.	62.4	38
46	Constructing evidence-based treatment strategies using methods from computer science. Drug and Alcohol Dependence, 2007, 88, S52-S60.	1.6	37
47	Randomised Trials for the Fitbit Generation. Significance, 2015, 12, 20-23.	0.3	35
48	SARA. , 2017, 2017, 781-789.		33
49	Just-in-Time but Not Too Much. , 2018, 2, 1-21.		33
50	ReVibe. , 2019, 3, 1-27.		33
51	Sample size formulae for two-stage randomized trials with survival outcomes. Biometrika, 2011, 98, 503-518.	1.3	32
52	The microrandomized trial for developing digital interventions: Experimental design and data analysis considerations.. Psychological Methods, 2022, 27, 874-894.	2.7	31
53	Estimating time-varying causal excursion effects in mobile health with binary outcomes. Biometrika, 2021, 108, 507-527.	1.3	29
54	Just-in-Time Adaptive Interventions for Suicide Prevention: Promise, Challenges, and Future Directions. Psychiatry (New York), 2022, 85, 317-333.	0.3	29

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55	Designing adaptive intensive interventions using methods from engineering.. Journal of Consulting and Clinical Psychology, 2014, 82, 868-878.	1.6	27
56	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.	0.8	27
57	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.	0.8	26
58	Translating strategies for promoting engagement in mobile health: A proof-of-concept microrandomized trial.. Health Psychology, 2021, 40, 974-987.	1.3	26
59	Developing an Adaptive Mobile Intervention to Address Risky Substance Use Among Adolescents and Emerging Adults: Usability Study. JMIR MHealth and UHealth, 2021, 9, e24424.	1.8	25
60	An Individualized, Data-Driven Digital Approach for Precision Behavior Change. American Journal of Lifestyle Medicine, 2020, 14, 289-293.	0.8	24
61	Batch mode reinforcement learning based on the synthesis of artificial trajectories. Annals of Operations Research, 2013, 208, 383-416.	2.6	22
62	SMARTer Discontinuation Trial Designs for Developing an Adaptive Treatment Strategy. Journal of Child and Adolescent Psychopharmacology, 2012, 22, 364-374.	0.7	21
63	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.	0.5	21
64	Assessing the Total Effect of Time-Varying Predictors in Prevention Research. Prevention Science, 2006, 7, 1-17.	1.5	20
65	Comment. Journal of the American Statistical Association, 2012, 107, 509-512.	1.8	20
66	Center of Excellence for Mobile Sensor Data-to-Knowledge (MD2K). IEEE Pervasive Computing, 2017, 16, 18-22.	1.1	19
67	Investigating the Impact of Selection Bias in Dose-Response Analyses of Preventive Interventions. Prevention Science, 2010, 11, 239-251.	1.5	18
68	<i>e</i> wrapper. , 2017, 2017, 790-798.		17
69	Standardized Effect Sizes for Preventive Mobile Health Interventions in Micro-randomized Trials. Prevention Science, 2019, 20, 100-109.	1.5	17
70	Practical Considerations for Data Collection and Management in Mobile Health Micro-randomized Trials. Statistics in Biosciences, 2019, 11, 355-370.	0.6	16
71	Off-Policy Estimation of Long-Term Average Outcomes With Applications to Mobile Health. Journal of the American Statistical Association, 2021, 116, 382-391.	1.8	16
72	Two-Level Proportional Hazards Models. Biometrics, 2002, 58, 754-763.	0.8	15

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73	Subgroups Analysis when Treatment and Moderators are Time-varying. <i>Prevention Science</i> , 2013, 14, 169-178.	1.5	15
74	Artificial intelligence decision-making in mobile health. <i>Biochemist</i> , 2019, 41, 20-24.	0.2	15
75	Optimizing mHealth Interventions with a Bandit. <i>Studies in Neuroscience, Psychology and Behavioral Economics</i> , 2019, , 277-291.	0.1	13
76	Optimizing an Acceptance and Commitment Therapy Microintervention Via a Mobile App With Two Cohorts: Protocol for Micro-Randomized Trials. <i>JMIR Research Protocols</i> , 2020, 9, e17086.	0.5	13
77	Time-varying effect moderation using the structural nested mean model: estimation using inverse-weighted regression with residuals. <i>Statistics in Medicine</i> , 2014, 33, 3466-3487.	0.8	11
78	Microrandomized trials for promoting engagement in mobile health data collection: Adolescent/young adult oral chemotherapy adherence as an example. <i>Current Opinion in Systems Biology</i> , 2020, 21, 1-8.	1.3	10
79	The mobile assistance for regulating smoking (MARS) micro-randomized trial design protocol. <i>Contemporary Clinical Trials</i> , 2021, 110, 106513.	0.8	10
80	Linear Mixed Models with Endogenous Covariates: Modeling Sequential Treatment Effects with Application to a Mobile Health Study. <i>Statistical Science</i> , 2020, 35, 375-390.	1.6	9
81	Design Lessons from a Micro-Randomized Pilot Study in Mobile Health. , 2017, , 59-82.		8
82	Inferring bounds on the performance of a control policy from a sample of trajectories. , 2009, , .		7
83	Towards Min Max Generalization in Reinforcement Learning. <i>Communications in Computer and Information Science</i> , 2011, , 61-77.	0.4	7
84	Active learning for personalizing treatment. , 2011, , .		6
85	Action Centered Contextual Bandits. <i>Advances in Neural Information Processing Systems</i> , 2017, 30, 5973-5981.	2.8	6
86	Rejoinder: Estimating time-varying causal excursion effects in mobile health with binary outcomes™. <i>Biometrika</i> , 2021, 108, 551-555.	1.3	5
87	Understanding Adolescent and Young Adult 6-Mercaptopurine Adherence and mHealth Engagement During Cancer Treatment: Protocol for Ecological Momentary Assessment. <i>JMIR Research Protocols</i> , 2021, 10, e32789.	0.5	5
88	Dynamic Treatment Regimes. , 2012, , 127-148.		5
89	Adaptive Intervention Designs in Substance Use Prevention. <i>Advances in Prevention Science</i> , 2019, , 263-280.	0.3	5
90	Budgeted Learning for Developing Personalized Treatment. , 2014, , .		4

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91	IntelligentPooling: practical Thompson sampling for mHealth. Machine Learning, 2021, 110, 2685-2727.	3.4	4
92	Estimating causal effects with optimization-based methods: A review and empirical comparison. European Journal of Operational Research, 2023, 304, 367-380.	3.5	4
93	Comparing Treatment Policies with Assistance from the Structural Nested Mean Model. Biometrics, 2016, 72, 10-19.	0.8	2
94	Active exploration by searching for experiments that falsify the computed control policy. , 2011, , .		1
95	A smartphone-based behavioural activation application using recommender system. , 2019, , .		1
96	Rejoinder: Linear Mixed Models with Endogenous Covariates: Modeling Sequential Treatment Effects with Application to a Mobile Health Study. Statistical Science, 2020, 35, .	1.6	1
97	Power Constrained Bandits.. Proceedings of Machine Learning Research, 2021, 149, 209-259.	0.3	1
98	Inference for Batched Bandits.. Advances in Neural Information Processing Systems, 2020, 33, 9818-9829.	2.8	1
99	Cost and Effort Considerations for the Development of Intervention Studies Using Mobile Health Platforms: Pragmatic Case Study. JMIR Formative Research, 2022, 6, e29988.	0.7	0