

# Susan A Murphy

## List of Publications by Citations

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

| #  | Paper   | IF   | Citations |
|----|---|------|-----------|
| 94 | The prevention and treatment of missing data in clinical trials. <i>New England Journal of Medicine</i> , <b>2012</b> , 367, 1355-60  | 59.2 | 856       |
| 93 | 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> , <b>2018</b> , 52, 446-462                                  | 4.5  | 675       |
| 92 | The multiphase optimization strategy (MOST) and the sequential multiple assignment randomized trial (SMART): new methods for more potent eHealth interventions. <i>American Journal of Preventive Medicine</i> , <b>2007</b> , 32, S112-8 | 6.1  | 621       |
| 91 | Mobile health technology evaluation: the mHealth evidence workshop. <i>American Journal of Preventive Medicine</i> , <b>2013</b> , 45, 228-36   | 6.1  | 582       |
| 90 | A conceptual framework for adaptive preventive interventions. <i>Prevention Science</i> , <b>2004</b> , 5, 185-96   | 4    | 423       |
| 89 | A strategy for optimizing and evaluating behavioral interventions. <i>Annals of Behavioral Medicine</i> , <b>2005</b> , 30, 65-73   | 4.5  | 305       |
| 88 | Microrandomized trials: An experimental design for developing just-in-time adaptive interventions. <i>Health Psychology</i> , <b>2015</b> , 34S, 1220-8   | 5    | 255       |
| 87 | PERFORMANCE GUARANTEES FOR INDIVIDUALIZED TREATMENT RULES. <i>Annals of Statistics</i> , <b>2011</b> , 39, 1180-1210  | 3.2  | 255       |
| 86 | 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> , <b>2014</b> , 53, 635-46            | 7.2  | 220       |
| 85 | Introduction to SMART designs for the development of adaptive interventions: with application to weight loss research. <i>Translational Behavioral Medicine</i> , <b>2014</b> , 4, 260-74   | 3.2  | 210       |
| 84 | Experimental design and primary data analysis methods for comparing adaptive interventions. <i>Psychological Methods</i> , <b>2012</b> , 17, 457-477  | 7.1  | 167       |
| 83 | Developing adaptive treatment strategies in substance abuse research. <i>Drug and Alcohol Dependence</i> , <b>2007</b> , 88 Suppl 2, S24-30   | 4.9  | 151       |
| 82 | Treatment Sequencing for Childhood ADHD: A Multiple-Randomization Study of Adaptive Medication and Behavioral Interventions. <i>Journal of Clinical Child and Adolescent Psychology</i> , <b>2016</b> , 45, 396-415                       | 5.4  | 132       |
| 81 | 6. Discrete-Time Multilevel Hazard Analysis. <i>Sociological Methodology</i> , <b>2000</b> , 30, 201-235  | 2.6  | 131       |
| 80 | Designing a pilot sequential multiple assignment randomized trial for developing an adaptive treatment strategy. <i>Statistics in Medicine</i> , <b>2012</b> , 31, 1887-902   | 2.3  | 123       |
| 79 | Q-learning: a data analysis method for constructing adaptive interventions. <i>Psychological Methods</i> , <b>2012</b> , 17, 478-94   | 7.1  | 103       |
| 78 | A Generalization Error for Q-Learning. <i>Journal of Machine Learning Research</i> , <b>2005</b> , 6, 1073-1097   | 28.6 | 87        |

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|----|--|-----|----|
| 77 | Dynamic Treatment Regimes. <i>Annual Review of Statistics and Its Application</i> , <b>2014</b> , 1, 447-464   | 7.6 | 84 |
| 76 | Inference for non-regular parameters in optimal dynamic treatment regimes. <i>Statistical Methods in Medical Research</i> , <b>2010</b> , 19, 317-43   | 2.3 | 84 |
| 75 | Dynamic treatment regimes: technical challenges and applications. <i>Electronic Journal of Statistics</i> , <b>2014</b> , 8, 1225-1272   | 1.2 | 77 |
| 74 | Informing sequential clinical decision-making through reinforcement learning: an empirical study. <i>Machine Learning</i> , <b>2011</b> , 84, 109-136  | 4   | 72 |
| 73 | Developing multicomponent interventions using fractional factorial designs. <i>Statistics in Medicine</i> , <b>2009</b> , 28, 2687-708   | 2.3 | 63 |
| 72 | Sample size calculations for micro-randomized trials in mHealth. <i>Statistics in Medicine</i> , <b>2016</b> , 35, 1944-71   | 2.3 | 60 |
| 71 | 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. <i>Implementation Science</i> , <b>2014</b> , 9, 132 | 8.4 | 56 |
| 70 | 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> , <b>2018</b> , 6, e10123   | 5.5 | 55 |
| 69 | Efficacy of Contextually Tailored Suggestions for Physical Activity: A Micro-randomized Optimization Trial of HeartSteps. <i>Annals of Behavioral Medicine</i> , <b>2019</b> , 53, 573-582   | 4.5 | 55 |
| 68 | Comparison of a phased experimental approach and a single randomized clinical trial for developing multicomponent behavioral interventions. <i>Clinical Trials</i> , <b>2009</b> , 6, 5-15   | 2.2 | 48 |
| 67 | Assessing Time-Varying Causal Effect Moderation in Mobile Health. <i>Journal of the American Statistical Association</i> , <b>2018</b> , 113, 1112-1121  | 2.8 | 42 |
| 66 | Screening experiments and the use of fractional factorial designs in behavioral intervention research. <i>American Journal of Public Health</i> , <b>2008</b> , 98, 1354-9   | 5.1 | 41 |
| 65 | Adaptive Confidence Intervals for the Test Error in Classification. <i>Journal of the American Statistical Association</i> , <b>2011</b> , 106, 904-913  | 2.8 | 39 |
| 64 | A Pilot SMART for Developing an Adaptive Treatment Strategy for Adolescent Depression. <i>Journal of Clinical Child and Adolescent Psychology</i> , <b>2016</b> , 45, 480-94   | 5.4 | 38 |
| 63 | Center of excellence for mobile sensor data-to-knowledge (MD2K). <i>Journal of the American Medical Informatics Association: JAMIA</i> , <b>2015</b> , 22, 1137-42   | 8.6 | 38 |
| 62 | Structural nested mean models for assessing time-varying effect moderation. <i>Biometrics</i> , <b>2010</b> , 66, 131-9  | 2.8 | 37 |
| 61 | Variable selection for qualitative interactions in personalized medicine while controlling the family-wise error rate. <i>Journal of Biopharmaceutical Statistics</i> , <b>2011</b> , 21, 1063-78  | 1.3 | 37 |
| 60 | Examining clinical judgment in an adaptive intervention design: The fast track program. <i>Journal of Consulting and Clinical Psychology</i> , <b>2006</b> , 74, 468-81  | 6.5 | 34 |

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|----|---|------|----|
| 59 | Linear Fitted-Q Iteration with Multiple Reward Functions. <i>Journal of Machine Learning Research</i> , <b>2012</b> , 13, 3253-3295   | 28.6 | 34 |
| 58 | Constructing evidence-based treatment strategies using methods from computer science. <i>Drug and Alcohol Dependence</i> , <b>2007</b> , 88 Suppl 2, S52-60   | 4.9  | 33 |
| 57 | A multiple imputation strategy for sequential multiple assignment randomized trials. <i>Statistics in Medicine</i> , <b>2014</b> , 33, 4202-14  | 2.3  | 32 |
| 56 | Sample size formulae for two-stage randomized trials with survival outcomes. <i>Biometrika</i> , <b>2011</b> , 98, 503-518  |      | 27 |
| 55 | Designing adaptive intensive interventions using methods from engineering. <i>Journal of Consulting and Clinical Psychology</i> , <b>2014</b> , 82, 868-78  | 6.5  | 26 |
| 54 | Randomised trials for the Fitbit generation. <i>Significance</i> , <b>2015</b> , 12, 20-23  | 0.5  | 25 |
| 53 | SARA: A Mobile App to Engage Users in Health Data Collection <b>2017</b> , 2017, 781-789  |      | 24 |
| 52 | From Ads to Interventions: Contextual Bandits in Mobile Health <b>2017</b> , 495-517  |      | 22 |
| 51 | Optimizing Digital Integrated Care via Micro-Randomized Trials. <i>Clinical Pharmacology and Therapeutics</i> , <b>2018</b> , 104, 53-58  | 6.1  | 21 |
| 50 | Just-in-Time but Not Too Much: Determining Treatment Timing in Mobile Health <b>2018</b> , 2,   |      | 21 |
| 49 | SMARTer discontinuation trial designs for developing an adaptive treatment strategy. <i>Journal of Child and Adolescent Psychopharmacology</i> , <b>2012</b> , 22, 364-74   | 2.9  | 19 |
| 48 | 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. <i>JMIR Research Protocols</i> , <b>2018</b> , 7, e166   | 2    | 19 |
| 47 | 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 Wang, Rotnitzky, Lin, Millikan, and Thall. <i>Journal of the American Statistical Association</i> , <b>2012</b> , 107, 509-512 | 2.8  | 18 |
| 46 | Personalized HeartSteps: A Reinforcement Learning Algorithm for Optimizing Physical Activity <b>2020</b> , 4,   |      | 18 |
| 45 | Assessing the total effect of time-varying predictors in prevention research. <i>Prevention Science</i> , <b>2006</b> , 7, 1-17   | 4    | 17 |
| 44 | Investigating the impact of selection bias in dose-response analyses of preventive interventions. <i>Prevention Science</i> , <b>2010</b> , 11, 239-51  | 4    | 16 |
| 43 | Optimizing delivery of a behavioral pain intervention in cancer patients using a sequential multiple assignment randomized trial SMART. <i>Contemporary Clinical Trials</i> , <b>2017</b> , 57, 51-57   | 2.3  | 15 |
| 42 | Batch Mode Reinforcement Learning based on the Synthesis of Artificial Trajectories. <i>Annals of Operations Research</i> , <b>2013</b> , 208, 383-416  | 3.2  | 15 |

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| 41 | ReVibe: A Context-assisted Evening Recall Approach to Improve Self-report Adherence <b>2019</b> , 3, 1-27  |     | 14 |
| 40 | Standardized Effect Sizes for Preventive Mobile Health Interventions in Micro-randomized Trials. <i>Prevention Science</i> , <b>2019</b> , 20, 100-109   | 4   | 14 |
| 39 | Center of Excellence for Mobile Sensor Data-to-Knowledge (MD2K). <i>IEEE Pervasive Computing</i> , <b>2017</b> , 16, 18-22   | 1.3 | 12 |
| 38 | Subgroups analysis when treatment and moderators are time-varying. <i>Prevention Science</i> , <b>2013</b> , 14, 169-178   | 1.8 | 12 |
| 37 | Two-level proportional hazards models. <i>Biometrics</i> , <b>2002</b> , 58, 754-63  | 1.8 | 11 |
| 36 | THE STRATIFIED MICRO-RANDOMIZED TRIAL DESIGN: SAMPLE SIZE CONSIDERATIONS FOR TESTING NESTED CAUSAL EFFECTS OF TIME-VARYING TREATMENTS. <i>Annals of Applied Statistics</i> , <b>2020</b> , 14, 661-684 | 2.1 | 11 |
| 35 | Optimizing mHealth Interventions with a Bandit. <i>Studies in Neuroscience, Psychology and Behavioral Economics</i> , <b>2019</b> , 277-291  | 1.8 | 10 |
| 34 | An Individualized, Data-Driven Digital Approach for Precision Behavior Change. <i>American Journal of Lifestyle Medicine</i> , <b>2020</b> , 14, 289-293   | 1.9 | 10 |
| 33 | Developing an Adaptive Mobile Intervention to Address Risky Substance Use Among Adolescents and Emerging Adults: Usability Study. <i>JMIR MHealth and UHealth</i> , <b>2021</b> , 9, e24424            | 5.5 | 10 |
| 32 | Developments in Mobile Health Just-in-Time Adaptive Interventions for Addiction Science. <i>Current Addiction Reports</i> , <b>2020</b> , 7, 280-290   | 3.9 | 9  |
| 31 | Time-varying effect moderation using the structural nested mean model: estimation using inverse-weighted regression with residuals. <i>Statistics in Medicine</i> , <b>2014</b> , 33, 3466-87          | 2.3 | 9  |
| 30 | Artificial intelligence decision-making in mobile health. <i>Biochemist</i> , <b>2019</b> , 41, 20-24  | 0.5 | 9  |
| 29 | Estimating time-varying causal excursion effect in mobile health with binary outcomes. <i>Biometrika</i> , <b>2021</b> , 108, 507-527  | 2   | 9  |
| 28 | Practical Considerations for Data Collection and Management in Mobile Health Micro-randomized Trials. <i>Statistics in Biosciences</i> , <b>2019</b> , 11, 355-370                                     | 1.5 | 8  |
| 27 | wrapper: Operationalizing engagement strategies in mHealth <b>2017</b> , 2017, 790-798   |     | 8  |
| 26 | Design Lessons from a Micro-Randomized Pilot Study in Mobile Health <b>2017</b> , 59-82  |     | 7  |
| 25 | The microrandomized trial for developing digital interventions: Experimental design and data analysis considerations.. <i>Psychological Methods</i> , <b>2022</b> ,                                    | 7.1 | 6  |
| 24 | Action Centered Contextual Bandits. <i>Advances in Neural Information Processing Systems</i> , <b>2017</b> , 30, 5973-5981   |     | 6  |

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| 23 | Off-Policy Estimation of Long-Term Average Outcomes with Applications to Mobile Health. <i>Journal of the American Statistical Association</i> , <b>2021</b> , 116, 382-391  | 2.8 | 6 |
| 22 | Linear mixed models with endogenous covariates: modeling sequential treatment effects with application to a mobile health study. <i>Statistical Science</i> , <b>2020</b> , 35, 375-390  | 2.4 | 5 |
| 21 | Sense2Stop: A micro-randomized trial using wearable sensors to optimize a just-in-time-adaptive stress management intervention for smoking relapse prevention. <i>Contemporary Clinical Trials</i> , <b>2021</b> , 109, 106534 | 2.3 | 5 |
| 20 | 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> , <b>2020</b> , 21, 1-8          | 3.2 | 4 |
| 19 | Active learning for personalizing treatment <b>2011</b> ,  |     | 4 |
| 18 | Inferring bounds on the performance of a control policy from a sample of trajectories <b>2009</b> ,  |     | 4 |
| 17 | Translating strategies for promoting engagement in mobile health: A proof-of-concept microrandomized trial. <i>Health Psychology</i> , <b>2021</b> ,   | 5   | 4 |
| 16 | Rejoinder: Estimating time-varying causal excursion effects in mobile health with binary outcomes <i>Biometrika</i> , <b>2021</b> , 108, 551-555   | 2   | 4 |
| 15 | Dynamic Treatment Regimes <b>2012</b> , 127-148  |     | 4 |
| 14 | Dynamic Treatment Regimens   |     | 3 |
| 13 | Towards Min Max Generalization in Reinforcement Learning. <i>Communications in Computer and Information Science</i> , <b>2011</b> , 61-77  | 0.3 | 3 |
| 12 | The mobile assistance for regulating smoking (MARS) micro-randomized trial design protocol. <i>Contemporary Clinical Trials</i> , <b>2021</b> , 110, 106513  | 2.3 | 3 |
| 11 | Optimizing an Acceptance and Commitment Therapy Microintervention Via a Mobile App With Two Cohorts: Protocol for Micro-Randomized Trials. <i>JMIR Research Protocols</i> , <b>2020</b> , 9, e17086                            | 2   | 2 |
| 10 | Adaptive Intervention Designs in Substance Use Prevention. <i>Advances in Prevention Science</i> , <b>2019</b> , 263-280   |     | 2 |
| 9  | Comparing treatment policies with assistance from the structural nested mean model. <i>Biometrics</i> , <b>2016</b> , 72, 10-9   | 1.8 | 2 |
| 8  | Active exploration by searching for experiments that falsify the computed control policy <b>2011</b> ,   |     | 1 |
| 7  | A smartphone-based behavioural activation application using recommender system <b>2019</b> ,   |     | 1 |
| 6  | Understanding Adolescent and Young Adult 6-Mercaptopurine Adherence and mHealth Engagement During Cancer Treatment: Protocol for Ecological Momentary Assessment. <i>JMIR Research Protocols</i> , <b>2021</b> , 10, e32789    | 2   | 1 |

- 5 IntelligentPooling: Practical Thompson Sampling for mHealth. *Machine Learning*, **2021**, 110, 2685-2727 4 ○
- 4 Inference for Batched Bandits.. *Advances in Neural Information Processing Systems*, **2020**, 33, 9818-9829 2.2 ○
- 3 Micro-Randomized Trial **2018**, 1-6
- 2 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
- 1 Power Constrained Bandits.. *Proceedings of Machine Learning Research*, **2021**, 149, 209-259 0.4