

INBAL (BILLIE) NAHUM-SHANI  
*CURRICULUM VITAE*  
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***Business Address:***

University of Michigan  
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RESEARCH INTERESTS

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My research focuses on using behavioral theory and novel methodologies to develop adaptive interventions, namely interventions that use ongoing information about the individual to modify the type/intensity/delivery-mode of support.

***Health Psychology:***

- Adaptive Interventions
- Just-In-Time Adaptive Interventions
- Social Support, Stress and Health
- Engagement in Mobile Health (mHealth)

***Research Methods:***

- Sequential Multiple Assignment Randomized Trial (SMART) and related data analytic methods for constructing adaptive interventions
- Factorial and Fractional Factorial Designs
- Micro-Randomized Trials (MRTs)
- Multilevel Data Analysis; Multilevel Experimental Designs

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EDUCATION

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**Ph.D. Behavioral and Management Sciences (2008)**

Technion - Israel Institute of Technology, Haifa, Israel

Dissertation Title: *Antecedents and Consequences of Work and Non-Work Related Supportive Relationships.*

Dissertation Committee: Prof. Peter Bamberger, Chair; Prof. Miriam Erez; Prof. Dov Zohar; Prof. Samuel Bacharach

**M.A. Educational Leadership and Policy (Cum Laude 2003)**

School of Education, Haifa University, Israel

Thesis Title: *Leadership in Cultural context: The effect of Leadership Style and Culture, on Organizational Commitment and Organizational Citizenship Behavior.*

Thesis Chair: Prof. Anit Somech

**B.A. Educational Leadership and Sociology (2001)**

School of Education, Haifa University, Israel

POSITIONS HELD

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- 2018-present      **Co-Director**  
Data-Science for Dynamic Decision-Making Lab (d3lab)  
Institute for Social Research  
University of Michigan
- 2017-present      **Research Associate Professor**  
Survey Research Center, Institute for Social Research  
University of Michigan
- 2013-2017        **Research Assistant Professor**  
Survey Research Center, Institute for Social Research  
University of Michigan
- Research Fellow**  
Smithers Institute for Alcohol-Related Workplace Studies  
Cornell University
- 2010 – 2013      **Faculty Research Fellow**  
Survey Research Center, Institute for Social Research  
University of Michigan
- 2008-2009        **Research Associate (post-doctoral fellow)**  
The Methodology Center  
Pennsylvania State University
- 2004-2008        **Data Analyst/Statistical Consultant**  
Statistical Laboratory, Department of Industrial Engineering and  
Management, Technion: Israel Institute of Technology
- 2003-2005        **Program Coordinator**  
Haifa-Boston Leadership Foundation  
Haifa, Israel
- 2002-2004        **Project Coordinator**  
Substance Abuse Prevention Institute  
Haifa, Israel
- 2000-2002        **Project Coordinator**  
The Unit of Academic Planning and Evaluation  
Haifa University, Haifa, Israel

## AWARDS

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2017	University of Michigan Research Faculty Recognition Award
2015	Outstanding Reviewer Award; Academy of Management: Academy of Management Discoveries.
2007	Best Dissertation Award; Academy of Management: Human Resource / SHRM Foundation
2002	Cum Laude for graduate students for the year 2002 Haifa University, Haifa, Israel.
2001	Cum Laude for graduate students for the year 2001 Haifa University, Haifa, Israel.

## GRANTS

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2019	<p><b>R01 AA026574 (NIH/NIAA);</b> <i>An adaptive preventive intervention (API) to optimize the transition from universal to indicated resources for college student alcohol use:</i> to examine: (1) the efficacy of an API compared to control, (2) whether the API can be optimized by altering the timing of the universal intervention and/or the personalization of the link to indicated intervention, and (3) moderators of these effects. (PI: Patrick); Role: Co-Investigator (site PI).</p> <p><b>R01CA224537 (NIH/NCI);</b> <i>Affective science and smoking cessation: Real time real world assessment:</i> Field-based methodological approaches will be used to examine the associations of distinct emotions, cognitions, context, and self-regulatory capacity with smoking lapse to create dynamic, accurate prediction models of risk. (PI: Lam); Role: Co-Investigator (site PI).</p> <p><b>PCS-2017C2-7613 (PCORI);</b> <i>Multi-level interventions for increasing tobacco cessation at FQHCs:</i> Three phase, Sequential Multiple Assignment Randomized Trial (SMART) to implement and evaluate practical, feasible, scalable intervention strategies at the clinic and patient level to increase the reach and impact of evidence based tobacco cessation treatment among FQHC patients. (PI: Wetter); Role: Co-Investigator (site PI).</p>
2018	<p><b>U01 CA229437 (NIH/NCI);</b> <i>Novel use of mHealth data to identify states of vulnerability and receptivity to JITAIs:</i> Advance the field of theory-driven behavior change interventions and cancer prevention by investigating the dynamic role of distinct emotions, self-regularity capacity and context in predicting vulnerability to lapse and receptivity to self-regulatory activities in smokers attempting to quit, as well as ascertaining the utility of these</p>

states in triggering real-time self-regulatory recommendations.  
(Co-PIs: Nahum-Shani, Wetter).

**MICHR Accelerating Synergy Award; Center for adaptive interventions for prevention/intervention for youth substance abuse:** Foster innovative, collaborative research for the development of adaptive, personalized mobile health interventions for youth substance use. Accelerating Synergy Award: Michigan Institute for Clinical & Health Research  
(Co-PIs: Walton, Nahum-Shani).

**R324B180003 (IES); Getting SMART about adaptive interventions in education:** Develop, conduct, evaluate and continually refine a training program for educational scholars to improve their methodological skills related to the development of effective adaptive interventions in education. Research Training Programs Grant: Institute of Education Sciences  
(Co-PIs: Almirall, Nahum-Shani).

2016

**R01 DK108678 (NIH/NIDDK); SMART weight loss management:** Employ a SMART (Sequential Multiple Assignment Randomized Trial) with 400 overweight/obese adults to optimize a stepped care adaptive intervention that integrates mHealth tools for treating obesity.  
(Co-PIs: Nahum-Shani, Spring).

2015

**R01 DA039901 (NIH/NIDA); Novel longitudinal methods for SMART studies of drug abuse and HIV:** Develop and evaluate new multilevel methods for analyzing longitudinal continuous, binary, and zero- inflated drug-use and HIV outcome measures arising from a SMART.  
(Co-PIs: Nahum-Shani, Almirall).

**P50 DA039838 (NIH/NIDA); Innovative methods for constructing just-in-time adaptive interventions:** Develop adaptive interventions from incorporating multiple competing outcomes to provide improved measures of confidence and disseminate these methods via software and analyses of clinical trial data. (PI: Murphy);  
Role: Co-Investigator.

**R01AA023187 (NIH/NIAAA); Data-based methods for just-in-time adaptive interventions in alcohol use:** Develop methods for using data to optimize mobile interventions aimed at preventing, treating and supporting the recovery from alcohol use disorders. R01: NIH/NIAAA (PI: Murphy);  
Role: Co-Investigator.

**U54-EB-020404 (NIH); Center of Excellence on Mobile Sensor Data-to-Knowledge (MD2K):** Developing “Big Data” solutions to quantify physical, biological, behavioral, social, and environmental factors that contribute to health and wellness in daily life. (PI: Kumar);  
Role: Co-Investigator.

2014

**P50 DA10075 (NIH/NIDA) Pilot Study Funding;** Developing just in time adaptive interventions for promoting mental health among college students. SMART Methodology for Constructing Adaptive Treatments. (PI: Collins);  
Role: Pilot Study PI.

**R01 AA022113 (NIH/NIAAA);** *The college-to-work transition & alcohol misuse:* An Etiologic study to identify the risk and protective factors underlying trajectories of maintained misuse, facilitating the development of more effective, evidence-based interventions addressing the specific need of at-risk college graduates. (PI: Bacharach);  
Role: Co-Investigator (Site PI).

**R01-MH103244 (NIH/NIMH);** *Electronic bridge to mental health (eBridge) for college students:* determine the impact of the eBridge to Mental Health intervention (eBridge) on linkage to mental health services and outcomes (suicidal thoughts and behaviors, depression, alcohol/substance misuse), and academic outcomes (grade point average, retention) and to examine possible moderators and mediators. (PI: King);  
Role: Co-Investigator.

2013

**University of Michigan's GCTC Phase 1 Funding;** Engaging the student community to develop a universal, video-based mental health intervention for young people. (PI: Eisenberg);  
Role: Co-Investigator.

**BCBS Award;** *Online innovative video-based intervention.* Blue Cross Blue Shield of Michigan Foundation (PI: Eisenberg);  
Role: Co-Investigator.

**RC1AA019092 (NIH/NIAAA);** *Statistical methods for sequential treatment decisions in alcoholism:* design and implement a series of simulation studies and secondary data analyses to compare different design and analysis approaches to sequential decision making in the context of alcohol treatment. The focus is on selection of treatment regimes, using Bayesian and causal models. (PI: Lynch);  
Role: Co-Investigator (Site PI).

**ICOS University of Michigan;** *Aggression in healthcare organizations:* Interdisciplinary Committee on Organizational Studies Small Grant;  
Role: PI

**ISR/SRC University of Michigan;** *Collaborative work on Technology for Health Promotion Research (THPR):* Funding from Survey Research Center, Institute for Social research;  
Role: PI

**Mcube University of Michigan; Developing real-time adaptive interventions using mobile technology; Mcubed research funding project.**

Role: Co-PI.

2008

**P50 DA10075 (NIH/NIDA) Pilot Study Funding; Conceptual and methodological framework for understanding help-seeking dynamics.** (PI: Collins) NIDA SMART Methodology for Constructing Adaptive Treatments.

Role: PI.

## PUBLICATIONS

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\*Student/Mentored research

\*\* Senior author

Ghosh, P.\*, **Nahum-Shani, I.**, Spring, B., & Chakraborty, B. (in press). Non-inferiority and equivalence tests in sequential, multiple assignment, randomized trials (SMARTs). *Psychological Methods*.

**Nahum-Shani, I.**, Almirall, Yap, J.R., D. McKay, J., Lynch, K., Freiheit, E.\*, & Dziak, J.J. (in press). SMART longitudinal analysis: A tutorial for using repeated outcome measures from SMART studies to compare adaptive interventions. *Psychological Methods*.

Dziak, J.J. Yap, J.R., Almirall, D. McKay, J., Lynch, K., & **Nahum-Shani, I.\*\*** (in press). A data analysis method for using longitudinal binary outcome data from a SMART to compare adaptive interventions. *Multivariate Behavioral Research*.

Artman, W.\*, **Nahum-Shani, I.** Wu, T., McKay, J., & Ertefaie, A. (in press). Power analysis in a SMART design: Sample size estimation for determining the best embedded dynamic treatment regime. *Biostatistics*.

Pfammatter, A.F. \*, **Nahum-Shani, I.**, DeZelar, M., Scanlan, L., McFadden, G., Siddique, J., Hedeker, D., & Spring, B. (in press). SMART: Study protocol for a sequential multiple assignment randomized controlled trial to optimize weight loss management. *Contemporary Clinical Trials*.

**Nahum-Shani, I.**, & Bamberger, P.A. (2019). The lingering effects of work context: Ambient work unit characteristics and the impact of retirement on alcohol consumption. *Human Relations*, 72(4), 675-705.

Czyz, E.\* K., King, C. A., & **Nahum-Shani, I.** (2018). Ecological assessment of daily suicidal thoughts and attempts among suicidal teens after psychiatric hospitalization: Lessons about feasibility and acceptability. *Psychiatry Research*, 267, 566-574.

**Nahum-Shani, I.**, Dziak, J. J., & Collins, L. M. (2018). Multilevel factorial designs with experiment-induced clustering. *Psychological Methods*, 23(3), 458-479.

- Bidargaddi, N., Almirall, D., Murphy, S., **Nahum-Shani, I.**, Kovalcik, M., Pituch, T., ... & Strecher, V. (2018). 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*, 6(11).
- Walton, A.\*, **Nahum-Shani, I.**, Crosby, A., Klasnja, P., & Murphy, S.A. (2018). Optimizing Digital Integrated Care via Micro-Randomized Trials. *Clinical Pharmacology & Therapeutics*, 104(1), 53-58.
- Bamberger, P. A., Koopmann, J., Wang, M., Larimer, M., **Nahum-Shani, I.**, Geisner, I., & Bacharach, S. B. (in press). Does College Alcohol Consumption Impact Employment Upon Graduation? Findings From a Prospective Study. *Journal of Applied Psychology*.
- Nahum-Shani, I.**, Smith, S.N. Spring, B.J., Collins, L.M., Witkiewitz, K., Tewari, A., & Murphy, S.A. (2018). Just-in-Time Adaptive Interventions (JITAs) in Mobile Health: Key Components and Design Principles for Ongoing Health Behavior Support. *Annals of Behavioral Medicine*, 52(6), 446-462.
- Nahum-Shani, I.** & Militello, L.K. (2018). Promoting Military Family Well-Being with Digitally-Supported Adaptive and Just-In-Time Adaptive Interventions: Opportunities and Challenges. *The National Academies of Sciences, Engineering, and Medicine consensus study: The Well-Being of Military Families*; Commissioned paper.
- Almirall, D., Kasari, C., McCaffrey, D.F., & **Nahum-Shani, I.** (2018) Developing Optimized Adaptive Interventions in Education. *Journal of Research on Educational Effectiveness*, 11:1, 27-34.
- Nahum-Shani, I.**, Ertefaie, A.\*, Lu, X.\*, McKay, J.R., Lynch, K.G., Oslin, D., & Almirall, D. (2017). A SMART Data Analysis Method for Constructing Adaptive Treatment Strategies for Substance Use Disorders. *Addiction*, 112(5), 901-909.
- Geisner, I. M., Koopmann, J., Bamberger, P., Wang, M., Larimer, M. E., **Nahum-Shani, I.**, & Bacharach, S. (2018). When the party continues: impulsivity and the effect of employment on young adults' post-college alcohol use. *Addictive Behaviors*, 77, 114-120.
- Wagner III, B.\*, Liu, E.\*, Shaw, S. D.\*, Iakovlev, G., Zhou, L., Harrington, C., ... & **Nahum-Shani, I.\*\*** (2017, September). eWrapper: Operationalizing engagement strategies in mHealth. In *Proceedings of the 2017 ACM International Joint Conference on Pervasive and Ubiquitous Computing and Proceedings of the 2017 ACM International Symposium on Wearable Computers* (pp. 790-798).
- Rabbi, M., Philyaw-Kotov, M., Lee, J., Mansour, A., Dent, L., Wang, X., Cunningham, R., Bonar, E., **Nahum-Shani, I.**, Klasnja, P. and Walton, M. (2017, September). SARA: a mobile app to engage users in health data collection. In *Proceedings of the 2017 ACM International Joint Conference on Pervasive and Ubiquitous Computing and Proceedings of the 2017 ACM International Symposium on Wearable Computers* (pp. 781-789).

- Lu, X.\*, **Nahum-Shani, I.**, Kasari, C., Lynch, K.G., Oslin, D.W., Pelham, W.E., Fabiano, G. and Almirall, D., (2016). Comparing dynamic treatment regimes using repeated-measures outcomes: modeling considerations in SMART studies. *Statistics in Medicine* , 35(10) 1595–1615 .
- Ertefaie, A.\*, Wu\*, T., Lynch, K., & **Nahum-Shani, I.** (2016) Identifying a set that contains the best dynamic treatment regimes. *Biostatistics* , 17 (1), 135-148.
- Almirall D., DiStefano, C., Chang, Y., Shire, S., Kaiser, A., Lu, X.\*, **Nahum Shani, I.**, Landa, R., Mathy, P., Kasari, C. (2016). Longitudinal effects of adaptive interventions with a speech-generating device in minimally verbal children with ASD. *Journal of Clinical Child and Adolescent Psychology*, 45(4), 442 - 456.
- Sarker, H.\*, Tyburski, M., Rahman, M. M., Hovsepian, K., Sharmin, M., Epstein, D. H., Preston, C.D., Furr-Holden, A., Milam, A., **Nahum-Shani, I.**, al’Absiet, M., & Kumar, S. (2016). Finding Significant Stress Episodes in a Discontinuous Time Series of Rapidly Varying Mobile Sensor Data. Paper presented at the Proceedings of the 2016 CHI Conference on Human Factors in Computing Systems, Santa Clara, California, USA.
- Nahum-Shani, I.**, Hekler, E. B., & Spruijt-Metz, D. (2015). Building health behavior models to guide the development of just-in-time adaptive interventions: A pragmatic framework. *Health Psychology*, 34, 1209-1219.
- Dempsey, W.\*, Liao, P.\*, Klasnja, P., **Nahum-Shani, I.**, & Murphy, S. A. (2015). Randomised trials for the Fitbit generation. *Significance*, 12(6), 20-23.
- Sharmin, M.\*, Raij, A., Epstein, D., **Nahum-Shani, I.**, Beck, G., Vhaduri, S., Preston, K., and Kumar, S. Visualization of Time-Series Sensor Data to Inform the Design of Just-In-Time Adaptive Stress Interventions. Paper presented at the Proceedings of the 2015 ACM UbiComp Osaka, Japan.
- Kumar, S., Abowd, G., Abraham, W., al’Absi, M., Beck, J.G., Chau, D.H., Condie, T., Conroy, D.E., Ertin, E., Estrin, D., Ganesan, D., Lam, C., Marlin, B., Marsh, C.B., Murphy, S.A., **Nahum-Shani, I.**, Patrick, K., Rehg, J., Sharmin, M., Shetty, V., Sim, I., Spring, B., Srivastava, M., Wetter, D. (2015). Center of Excellence for Mobile Sensor Data-to-Knowledge (MD2K). *Journal of the American Medical Informatics Association*, 22 (6), 1137-1142.
- Jakicic, J. M., Sox, H., Blair, S. N., Bensink, M., Johnson, W. G., King, A. C., Lee, I. M., **Nahum-Shani, I.**, Sallis, J. F., Sallis, R. E., Craft, L., Whitehead, J. R., & Ainsworth, B. E. (2015). Comparative Effectiveness Research: A Roadmap for Physical Activity and Lifestyle. *Medicine and Science in Sports and Exercise*, 47 (8), 1747-1754.
- Nahum-Shani, I.**, & Bamberger, P.A. (2015). A lingering ambiance: Pre-retirement work context and the impact of retirement on drinking behavior. In John Humphreys (Ed.), *Proceedings of the Seventy-fifth Annual Meeting of the Academy of Management* (best paper). Online ISSN: 2151-6561.



- Collins, L., **Nahum-Shani, I.**, & Almirall, D. (2014). Optimization of behavioral dynamic treatment regimens based on the sequential, multiple assignment, randomized trial (SMART). *Clinical Trials*, 11(4), 426-434.
- Almirall D., **Nahum-Shani, I.**, Sherwood, N.E., Murphy, S.A. (2014). Introduction to SMART Designs for the Development of Adaptive Interventions: With Application to Weight Loss Research. *Translational Behavioral Medicine*, 4(3), 260-274.
- Nahum-Shani, I.**, Henderson\*, M.M., Lim, S., M.M., & Vinokur, A.D. (2014) Supervisor support: Does it buffer or exacerbate the adverse effects of supervisor undermining? *Journal of Applied Psychology*, 99 (3), 484-503.
- Nahum-Shani, I.**, Qian\*, M., Almirall, D., Pelham, W.E., Gnagy, B., Fabiano, G., Waxmonsky, J., Yu, J., & Murphy, S. (2012b). Q-Learning: A Secondary Data Analysis Method for Developing Adaptive Interventions. *Psychological Methods*, 17(4), 478-494.
- Nahum-Shani, I.**, Qian\*, M., Almirall, D., Pelham, W.E., Gnagy, B., Fabiano, G., Waxmonsky, J., Yu, J., & Murphy, S. (2012a). Experimental Design and Primary Data Analysis for Developing Adaptive Interventions. *Psychological Methods*, 17(4), 457-477.
- Dziak, J., **Nahum-Shani, I.**, & Collins, L. (2012) Multilevel Factorial Experiments: Power and Conceptual Considerations. *Psychological Methods*, 17(2), 153-175.\*\*equal contribution of authors.
- Lei, H.\*, **Nahum-Shani, I.**, Lynch, K., Oslin, D., & Murphy, S.A. (2012). Using Sequential, Multiple Assignment, Randomized Trial (SMART) Designs to Build Individualized Treatment Sequences. *Annual Review of Clinical Psychology*, 8, 21-48.
- Nahum-Shani, I.**, & Bamberger, P.A. (2011b). The Buffering Effect of Social Support on Stressor-Strain Relations: The Conditioning Effects of Perceived Reciprocity Patterns. *Organizational Behavior and Human Decision Processes*, 114, 49-63.
- Nahum-Shani, I.**, Bamberger, P.A., & Bacharach, S.B. (2011). Social Support and Well-Being among Blue Collar Workers: The Conditioning Effects of Perceived Patterns of Supportive Exchange. *Journal of Health and Social Behavior*, 52, 123-139.
- Nahum-Shani, I.**, & Somech, A. (2011). Leadership, OCB and Individual Differences: Idiocentrism and Allocentrism as Moderators of the Relationship between Transformational and Transactional Leadership and OCB. *Leadership Quarterly*, 22, 353-366.
- Nahum-Shani, I.**, & Bamberger, P.A. (2011a). Work Hours, Retirement and Supportive Relations among Older Adults. *Journal of Organizational Behavior*, 32, 345-369.
- Cohen, A., **Nahum-Shani, I.**, & Doveh, E. (2010). Further Insight and Additional Inference Methods for Polynomial Regression Applied to the Analysis of Congruence. *Multivariate Behavioral Research*, 45, 828-852.

Cohen, A., Doveh, E., & **Nahum-Shani, I.** (2009). Testing agreement for multi-item scales with indices rwg(J) and ADM(J). *Organizational Research Methods, 12*, 148-164.

Bamberger, P., Kohn, E., & **Nahum-Shani, I.** (2008). Aversive Workplace Conditions and Employee Grievance Filing: The Moderating Effects of Gender and Ethnicity. *Industrial Relations, 47*, 229-260.

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#### BOOK CHAPTERS

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\*Student/Mentored research

Hall, K. L.\*, **Nahum-Shani, I.**, August, G., Patrick, M. E., Murphy, S. A., & Almirall, D. (2019). Adaptive Intervention Designs in Substance Use Prevention. Book chapter to appear in *Prevention of Substance Use: Springer* (pp. 263-280).

El-Toukhy, S.\* & **Nahum-Shani, I.** (2019). The JITAI Code: A Primer on Just-In-Time-Adaptive Interventions. Wiley StatsRef: Statistics Reference Online.

Almirall, D., **Nahum-Shani, I.**, Wang, L., & Kasari, C. (2018). Experimental Designs for Research on Adaptive Interventions: Singly- and Sequentially-Randomized Trials. In L.M. Collins and K.C. Kugler (Eds.) *Advanced Topics in the Optimization of Behavioral and Biobehavioral Interventions* (pp. 89-120).

**Nahum-Shani, I.** & Dziak, J.J. (2018) Multilevel Factorial Designs in Behavioral Intervention Development. In L.M. Collins and K.C. Kugler (Eds.) *Advanced Topics in the Optimization of Behavioral and Biobehavioral Interventions* (pp. 47-87).

Dallery, J., Riley, W.T., & **Nahum-Shani, I.** (2015). Research Designs to Develop and Evaluate Technology-Based Health Behavior Interventions. In L. Marsch, S. Lord, and J. Dallery (Eds.) *Leveraging Technology to Transform Behavioral Healthcare*. Oxford University Press.

**Nahum-Shani, I.**, Xi, L., Henderson\*, M.M., & Murphy, S.A. (2013). Innovative experimental design for developing effective technology-supported help-seeking interventions. In S.A. Karabenick and M. Puustinen (Eds.) *Advances in Help Seeking Research and Applications: The Role of Information and Communication Technologies*.

Qian\*, M., **Nahum-Shani, I.**, Murphy, S. (2013). Dynamic Treatment Regimes, In *Modern Clinical Trial Analysis*. In X. Tu and W. Tang (Eds.). Springer Science.

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#### PROFESSIONAL CONFERENCES/PRESENTATIONS

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\*Student-mentored research

Shaw, S.D.\*, Yoon, C. Wagner, B., & **Nahum-Shani, I.** (2019). Engagement in a digital world: An organizing framework for engagement strategies. Society for consumer psychology annual conference. Savannah, GA, March, 2019.

- Luers, B.\*, Qian, M., **Nahum-Shani, I.**, Kasari, C., and Almirall, D. Mixed effect models to compare dynamic treatment regimens with SMART data. ENAR Spring Meeting. Philadelphia, PA, March 2019.
- Dempsey, W\*, & **Nahum-Shani, I.** From Adaptive Interventions to Just-in-Time Adaptive Interventions. Pre-Conference workshop on “The Nuts and Bolts of Behavioral Intervention Development” at the Society for Behavioral Medicine Annual Meeting. Washington, DC, March 2019.
- Czyz, E., & **Nahum-Shani, I.** Decision making in the optimization of multicomponent interventions: An open discussion. Panel presentation with G. Bennett, L. Collins, E. Czyz, & B. Spring (chaired by A.F. Pfammatter) at the Society of Behavioral Medicine 40th Annual Meeting and Scientific Sessions. Washington, DC, March, 2019.
- Walton, A.\*, Collins, L., Crosby, L., Klasnja, P., **Nahum-Shani, I.**, Rabbi, M., Walton, M., Murphy, S. The Micro-randomized trial for developing mobile health interventions. Poster presentation at the Fifth Annual Mobile Data to Knowledge (MD2K) Meeting. Memphis, TN, October 2018.
- Walton, A.\*, Collins, L., Crosby, L., Klasnja, P., **Nahum-Shani, I.**, Rabbi, M., Walton, M., Murphy, S. The Micro-randomized trial for developing mobile health interventions. Seminar at Penn State University Methodology Center, College of Health and Human Development. State College, PA, October 2018.
- Walton, A.\*, Collins, L., Crosby, L., Klasnja, P., **Nahum-Shani, I.**, Rabbi, M., Walton, M., Murphy, S. The Micro-randomized trial for developing mobile health interventions. Poster presentation at the Technology in Psychiatry Summit. Boston, MA, November, 2018.
- Czyz, E. C.\*, Fernandez K. C., **Nahum-Shani, I.**, & King, C. A. Feasibility and acceptability of ecological momentary assessment (EMA) with suicidal adolescents following psychiatric hospitalization. Poster presentation at the 50th American Association of Suicidology Annual Conference. Phoenix, AZ, April 2018.
- Tureen, T.\*, Yap, J., Almirall, D., & **Nahum-Shani, I.** R Implementation for the Analysis of Zero-Inflated Count Data from SMARTs: With Application to Substance Use Research. Michigan Student Symposium for Interdisciplinary Statistical Sciences (MISSISS). University of Michigan, Ann Arbor, MI; April 2018.
- Seewald, N.J.\*, **Nahum-Shani, I.**, McKay, J.R., Almirall, D. Sample Size Considerations for the Analysis of Continuous Repeated-Measures Outcomes in Sequential Multiple-Assignment Randomized Trials." Michigan Student Symposium for Interdisciplinary Statistical Sciences. Ann Arbor, MI.; April 2018.
- Wagner, B.\*, Shaw, S. D., Liu, E., Harrington, C., Naar, S., Abowd, G., Yoon, C., Kumar, S., Murphy, S., **Nahum-Shani, I.** ewrapper: Operationalizing engagement strategies in mHealth. Poster session presented at the Michigan Student Symposium for Interdisciplinary Statistical Sciences, Ann Arbor, MI; April 2018.

- Bonar, E.E., Rabbi, M.\*, Murphy, S.A., **Nahum-Shani, I.**, Cunningham, R.M., Philyaw-Kotov, M.L., Walton, M.A. Feasibility and Acceptability of Using a Mobile Phone App to Assess Substance Use Among Adolescents and Emerging Adults [Abstract]. *Alcoholism: Clinical and Experimental Research*, 2018.
- Czyz, E.C.\*, King, C.A., & **Nahum-Shani, I.** Examining Feasibility and Acceptability of Ecological Momentary Assessment among Adolescents at Elevated Suicide Risk. Presentation at IASR/AFSP International Summit on Suicide Research. Henderson, NV, November 2017.
- Philyaw-Kotov, M.L.\*, Rabbi, M.\*, Murphy, S.A., Klasnja, P., Tewari, A., **Nahum-Shani, I.** and Bonar, E.E., 2017. Feasibility and acceptability of using a mobile phone app to assess substance use among adolescents and emerging adults. *SAVIR Conference: Innovations in Injury Prevention Science; Injury Prevention 2017; 23(Suppl 1):A1–A62*. Ann Arbor, MI; September 2017.
- Czyz, E.C.\*, King, C.A., & **Nahum-Shani, I.** Examining Feasibility and Acceptability of Ecological Momentary Assessment among Adolescents at Elevated Suicide Risk. Presentation at the Society for Advancement of Violence and Injury Research Conference. Ann Arbor, MI, September 2017.
- Nahum-Shani, I.**, Yap J.R.T., Almirall D., Freiheit, E., McKay, J. R., Lynch, K. G., Dziak, J.J. Comparing Adaptive Interventions Using Longitudinal Data Methods. Paper Session: New Directions in General Psychology. The 125th Annual Convention of the American Psychological Association. Washington, D.C; August 2017.
- Nahum-Shani, I.** Common Misconceptions Regarding Adaptive Interventions and SMART Studies. Workshop on Development of Adaptive Treatment Strategies in the Management of Drug Dependence: Lessons Learned from Clinical Trials Currently in the Field. College on Problems of Drug Dependence (CPDD) meeting. Montreal, Canada; June, 2017.
- Nahum-Shani, I.**, Spring, B., & Murphy, S.A. Stress-Management Just-In-Time Adaptive Interventions: Opportunities and Challenges. Symposium on Harnessing mHealth Technology to Advance Intervention Research on Stress, Addiction, and Mental Health Disorders. The 75th Annual Scientific Meeting of the American Psychosomatic Society, Sevilla, Spain; March 2017.
- Seewald, J.N.\*, **Nahum-Shani, I.**, McKay, J., & Almirall, D. Sample Size Considerations for the Analysis of Continuous Repeated-Measures Outcomes in Sequential Multiple-Assignment Randomized Trials. Michigan Student Symposium for Interdisciplinary Statistical Sciences (MISSISS) (Best Statistics Graduate Student Poster). University of Michigan, Ann Arbor, MI; March 2017.
- Wagner, B.,\* Rabbi, M.\*, et al., Engagement Interventions in Mobile Health. Michigan Student Symposium for Interdisciplinary Statistical Sciences (MISSISS). University of Michigan, Ann Arbor, MI; March 2017.

- Sarker, H.\*, Tyburski, M., Rahman, M. M., Hovsepian, K., Sharmin, M., Epstein, D. H., Preston, C.D., Furr-Holden, A., Milam, A., **Nahum-Shani, I.**, al’Absiet, M., & Kumar, S. (2016). Finding Significant Stress Episodes in a Discontinuous Time Series of Rapidly Varying Mobile Sensor Data. CHI Conference on Human Factors in Computing Systems, Santa Clara, California, USA; May 2016.
- Sharmin, M.\*, Raji, A., Epstein, D., **Nahum-Shani, I.**, Beck, G., Vhaduri, S., Preston, K., and Kumar, S. Visualization of Time-Series Sensor Data to Inform the Design of Just-In-Time Adaptive Stress Interventions, ACM UbiComp, Osaka, Japan, Sep, 2015.
- Nahum-Shani, I.**, & Bamberger, P.A., A lingering ambiance: Pre-retirement work context and the impact of retirement on drinking behavior (best paper). Presented at the Academy of Management Meeting, Vancouver, Canada; August 2015.
- Dworak, P., **Nahum-Shani, I.**, & Chang, W. Evaluating sequence of responsive design interventions on the Health and Retirement Study using the Sequential Multiple Assignment Randomized Trial (SMART). Paper presented at the American Association for Public Opinion Research, Hollywood, Florida; May, 2015.
- Spring, B., Pellegrini, C.A., & **Nahum-Shani, I.** How long does it take to identify non-responders to weight loss treatment. The Obesity Society’s Annual Meeting; Boston, Massachusetts; November, 2014.
- Nahum-Shani, I.**, Bamberger, P.A., Bacharach, S.B., & Doveh, E. Explaining the varying effects of retirement on Alcohol Consumption: The Role of unit-level drinking norms and stress climate. Presented as part of the symposium on work transitions and mental health throughout the work life course. Work, Stress, and Health Meeting: Protecting and Promoting Total Worker Health, May 2013, Los Angeles, CA.
- Nahum-Shani, I.**, & Henderson, M.M., Lim, S., & Vinokur, A.D. Supervisor support: Does it buffer or exacerbate the adverse effect of supervisor undermining. Paper presented at the Academy of Management Annual Meeting, Orlando, FL, August 2013.
- Nahum-Shani, I.**, & Bamberger, P.A., Bacharach, S.B., & Doveh, E. Explaining the varying effects of retirement on alcohol consumption: The Role of unit-level drinking norms and stress climate. Paper presented at the Academy of Management Annual Meeting, Boston, MA, August 2012.
- Dziak, J., **Nahum-Shani, I.**, & Collins, L. Multilevel factorial experiments: Power and conceptual considerations. Paper presented at the Society for Prevention Research 20th Annual Meeting. Washington, DC, May 2012.
- Nahum-Shani, I.** Adaptive interventions utilizing mobile health technologies. Whitepaper accepted to the mHealth Evidence Workshop, sponsored by Robert Wood Johnson Foundation, the National Institutes of Health. Bethesda, MD, August 2011.

- Nahum-Shani, I.,** & Somech, A. Leadership, OCB and individual differences: idiocentrism and allocentrism as moderators. Paper presented at the Academy of Management Annual Meeting, Montreal, Canada, August 2010.
- Nahum-Shani, I.,** Qian, M., Pelham, W.E., Gnagy, B., Fabiano, G., Waxmonsky, J., Yu, J., & Murphy, S.A. Q-Learning: A Data analysis method for constructing adaptive interventions. Paper presented at the Society for Prevention Research Annual Meeting, Denver, CO, May 2010.
- Nahum-Shani, I.,** & Bamberger, P.A. Work hours, retirement and supportive relations among older adults. Paper presented at the Academy of Management Annual Meeting, Chicago, IL, August 2009.
- Nahum-Shani, I.** Dissertation Award winners session: Invited talk at the HR Doctoral Consortium, Academy of Management Annual Meeting, Anaheim, CA, August 2008.
- Nahum-Shani, I.** Hours worked and their positioning during the day: Effects on support availability from work, family and non-work friends. Invited talk, HR Dissertation award winners' paper session, Academy of Management Annual Meeting, Anaheim, CA, August 2008.
- Nahum-Shani, I.,** & Bamberger, P.A. Temporal workplace demands and the buffering effect of social support: The Conditioning role of perceived reciprocity patterns. Paper presented at the Academy of Management Annual Meeting, Anaheim, CA, August 2008.
- Nahum-Shani, I.,** Doveh, E., Bamberger, P.A., & Bacharach, S.B. Moderated mediation in multilevel models: The case of involvement in traumatic events. Poster presentation at the 4th conference of the EMR - International Biometric Society. January, 2007.
- Bacharach, S.B., Bamberger, P.A., & **Nahum-Shani, I.** Hours, shifts and supportive relations: Resource mobilization and the link between temporal workplace demands and social support. Paper presented at the Academy of Management Annual Meeting, Philadelphia, PA, August 2007.

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#### INVITED PRESENTATIONS/TRAINING SESSIONS

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- Just-In-Time Adaptive Interventions: Scientific Motivation and Key Components. Invited Symposia on mHealth in Action. Society for Prevention Research Annual Meeting. San Francisco, CA; May 2019.
- Engagement and Health Behavior Change: The Role of Adaptive and Just-In-Time Adaptive Interventions. Clinical Science Forum: New Developments in the Clinical Science of Behavior Change. Association for Psychological Science Annual Convention. Washington, DC; May 2019.
- Engagement in Mobile Health Studies (with Donna Spruijt-Metz and David Wetter). The Intensive Longitudinal Health Behavior Network (ILHBN). Online; February 2019.

From Adaptive to Just-In-Time Adaptive Interventions in Mobile Health. Department of Psychology, University of Michigan; February 2019.

From Adaptive to Just-In-Time Adaptive Interventions in Mobile Health. Department of Psychology, University of Zurich; December 2018.

Novel Use of mHealth Data to Identify States of Vulnerability and Opportunity to JITAI. NIH Intensive Longitudinal Health Behaviors Network Annual Meeting. Bethesda, MD; October 2018.

Experimental Designs for Building mHealth Interventions: Factorial Designs, SMARTs and MRTs. mHealth Training Institute, University of California, Los Angeles; August 2018.

Addressing Human Variability: Adaptive and Just-In-Time Adaptive Interventions. The Human Variability Project Workshop. Army Research Lab. Baltimore, MD; July 2018.

Micro-Randomized Trial to Investigate the Effects of Just-In-Time Prompts and Message Framing. The Micro-Randomized Trial Design for developing adaptive mobile health; invited session at the Society for Clinical Trials meeting. Portland, OR; May 2018.

From Adaptive to Just-In-Time Adaptive Interventions in Mobile Health. Huntsman Cancer Institute, University of Utah. Salt Lake City, Utah; May 2018.

Lightning Rounds on Just-In-Time Adaptive Interventions. Society for Behavioral Medicine Annual Meeting. New Orleans, LA; April 2018.

From Adaptive Interventions to Just-in-Time Adaptive Interventions (Dempsey [Speaker] & Nahum-Shani). Pre-Conference workshop on “The Nuts and Bolts of Behavioral Intervention Development” at the Society for Behavioral Medicine Annual Meeting, New Orleans, LA; April 2018.

Novel Experimental Approaches to Designing Effective Multi-Component Interventions. Invited Pre-Conference workshop at the Society for Behavioral Medicine Annual Meeting; New Orleans, LA; April 2018.

Using Digital Data to Promote Behavior Change. Symposium on Consumer Goods as Agents of Sustainable Health. Proctor and Gamble Mason Research Center. Cincinnati, OH; March, 2018.

Experimental Designs for Multi-Components Behavioral Intervention Development. Implementation Research Group; The Center for Evaluation and Implementation Resources. US Department of Veterans Affairs; Online Session; January, 2018.

From Adaptive to Just-In-Time Adaptive Interventions in Mobile Health. Michigan Program in Survey Methodology (MPSM) Sponsors Briefing. University of Michigan. Ann Arbor, MI; October 2017.

Novel longitudinal methods for SMART studies of drug use and HIV. The Methodology Center Annual Retreat . Penn State University. State College, PA; October, 2017.

From Adaptive to Just-In-Time Adaptive Interventions in Mobile Health: Conceptual and Methodological Considerations. Department of Psychiatry and Behavioral Sciences, University of Washington. Seattle, WA; September, 2017.

Experimental Designs for Building mHealth Interventions: Factorial Designs, SMARTs and MRTs. mHealth Training Institute, University of California, Los Angeles; August 2017.

Experimental Designs for Constructing Multi-Component Behavioral Interventions. NIA/NIH Workshop on Innovating the Next Generation of Dementia and Alzheimer's Disease Care Interventions: Addressing the needs of caregivers, care providers, and persons living with dementia. National Institutes of Health, Rockville, MD; July 2017.

From Adaptive to Just-In-Time Adaptive Interventions in Mobile Health: Conceptual and Methodological Considerations. Department of Biomedical Data Science, Geisel School of Medicine, Dartmouth College. Lebanon, NH; July 2017.

Introduction to Adaptive Interventions and SMART studies. Novel Experimental Approaches to Designing Effective Multi-component Interventions. Invited Workshop; The Chicago Chapter of the American Statistical Association (ASA). Northwestern University, Chicago, IL; May, 2017.

From Adaptive to Just-In-Time Adaptive Interventions in Mobile Health: Conceptual and Methodological Considerations. Center for Drug Use and HIV Research (CDUHR) MHealth Mini Conference. NYU, New York, NY; April 2017.

From Adaptive to Just-In-Time Adaptive Interventions in Mobile Health. Department of Psychiatry & Neurobehavioral Sciences, School of Medicine, University of Virginia, Charlottesville, VA; December 2016.

Introduction to Adaptive Interventions. IES Principal Investigator's Conference. Washington, DC; December 2016.

From Adaptive to Just-In-Time Adaptive Interventions. Institute for Translational Research in Children's Mental Health 2nd Annual Symposium: Building a Science of Personalized Intervention for Children's Mental Health. University of Minnesota, Minneapolis, MN; October 2016.

Experimental Designs and Data Analytic Methods for Building mHealth Interventions. mHealth Training Institute, University of California, Los Angeles; August 2016.

Experimental Designs for Building mHealth Interventions. NIH Global mHealth Research Training Institute. Bethesda, MD; June 2016.



Just in Time Adaptive Interventions: Scientific Motivation and Key Components. Invited talk at the Cross-Cutting Theme Program: Breaking Free—Intersecting Perspectives on the Science of Behavior Change. Association for Psychological Science Convention, Chicago, IL; May 2016.

From Adaptive to Just-In-Time Adaptive Interventions. Workshop on Methodological Approaches to Designing Adaptive Interventions in Mobile Health; Association for Psychological Science Convention, Chicago, IL; May 2016.

Building Just-In-Time Adaptive Interventions in Mobile Health: The Role of Micro-Randomized Trials (Organizer and Speaker). Pre-Conference workshop at the Society for Behavioral Medicine Annual Meeting, Washington, DC; March 2016.

From Adaptive Interventions to Just-in-Time Adaptive Interventions (Dempsey [Speaker] & Nahum-Shani). Pre-Conference workshop on ‘The Nuts and Bolts of Behavioral Intervention Development’ at the Society for Behavioral Medicine Annual Meeting, Washington, DC; March 2016.

Adaptive Interventions for Health Behavior Change: What, Why and How? Center for Economic and Social Research, University of Southern California. Los Angeles, CA; Feb, 2016.

On Adaptive Interventions and SMARTs. School of Nursing Methodology Series Workshop, University of Michigan, Ann Arbor, MI; Feb 2016.

Adaptive Interventions for Health Behavior Change: What, Why and How? Department of Psychology, Rice University. Huston, TX; December, 2015.

Adaptive Interventions in Educational Research. IES Principal Investigator’s Conference. Washington, DC; December 2015.

Just In Time Adaptive Interventions for Promoting Mental Health Among College Students (White Paper). NSF Workshop on College Student Health. Chicago, IL; July 2015.

Introduction to Adaptive Intervention and Associated Methodologies. IES Technical Working Group Meeting on SMARTs in Education Research. Washington DC; July 2015.

Getting SMART: Experimental Design Methods for Developing Adaptive Interventions. Pre-conference workshop; annual Meeting of the Society for Prevention Research, Washington, DC, May 2015.

Getting SMART: Experimental Design and Analysis Methods for Developing Adaptive Interventions; 1-Day Workshop at the UCSF Division of Prevention Sciences & Department of Epidemiology & Biostatistics, University of California, San Francisco; May 2015.

mHealth Research Methodology. mHealth Training / NIH mHealth Summit 2014. Washington DC; December 2014.

On SMART and Factorial Designs: Application to mHealth Research. mHealth evidence wireless workshop; Wireless Health 2014. Bethesda, MD; October 2014.

On SMART and Factorial Designs: Application to mHealth Research. mHealth evidence NIH/OBSSR Panel. Bethesda, MD; October 2014.

Experimental Designs for Developing mHealth Interventions. NIH/OBSSR online mHealth training. July 2014.

Pre-Meeting Conference Workshop on the Design and Conduct of Sequential Multiple Assignment Randomized Trials. Society for Clinical Trials Meeting. Philadelphia, PA; May 2014.

From SMART to Just In Time Adaptive Interventions. NIH Workshop on Innovative Study Designs and Methods for Developing, Testing and Implementing Behavioral Interventions. Bethesda, MD, April 2014.

mHealth Research Methods and Design. Instructor in NIH/OBSSR brief mHealth training (online). Bethesda, MD, March 2013.

mHealth Research Methods and Design. Instructor in NIH/OBSSR mHealth training. Bethesda, MD, Dec 2013.

On MOST, SMART and Factorial Designs. Center for Technology and Behavioral Health, Department of Psychiatry, Geisel School of Medicine at Dartmouth, Dartmouth College, November 2013.

On MOST, SMART and Factorial Designs. The National Institute on Drug Abuse's Division of Clinical Neuroscience & Behavioral Research (DCNBR): Meeting on Overcoming Barriers and Making Adolescent Drug Abuse Treatment More Community, Bethesda, MD, June 2013.

Being SMART about adapting interventions: An introduction to Adaptive Interventions and SMART designs; Pre-conference workshop on Tobacco Use Treatment Development: Challenges, Opportunities, & New Methods, Society for Research on Nicotine and Tobacco's 19th Annual Meeting, March, 2013.

Designing work-based brief interventions for at-risk drinking: The SMART way. Research project presented at the Stanford Prevention Research Center, Stanford University School of Medicine, Stanford, CA; February 2013.

Supervisor support: Does it buffer or exacerbate the adverse effects of supervisor undermining? Seminar presented at the Department of Psychology, Virginia Tech; January, 2013.

Optimizing technology-based interventions: The SMART experimental approach. Seminar presented at the Stanford Prevention Research Center, Stanford University School of Medicine, Stanford, CA; January 2013.

Q-learning: A data analysis method for developing behavioral interventions. Seminar presented at the Department of Psychology, University of North Carolina at Chapel Hill, Chapel Hill, NC; Dec, 2012.

MHealth research and experimental designs: Beyond randomized control trials. Training session at the NIH/Mhealth 2012 training workshop, Washington DC; November 2012.

Supervisor support: Does it buffer or exacerbate the adverse effects of supervisor undermining?  
Paper presented at Ross School of Business, University of Michigan, Ann Arbor MI;  
November 2012.

Experimental Designs for Intervention Development. National Strategic Summit on creating a  
roadmap for physical activity, lifestyle and comparative effectiveness research. Arizona  
State University, Phoenix, AZ, October 2012.

Experimental Designs for Intervention Development. NIH SOBC Revisiting Pasteur's Quadrant: Use-  
Inspired Basic Research, Bethesda, MD, October 2012.

Supervisor Support: Does it buffer or exacerbate the adverse effect of supervisor undermining.  
Paper presented at the Department of Psychology, area of Personality & Social Context  
seminar, University of Michigan, April 2012.

#### FORMAL TEACHING/WORKSHOPS

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- 2019      ***Getting SMART about Adaptive Interventions in Education***  
***A four-day workshop on adaptive interventions and sequential multiple-  
assignment randomized trials (SMART) in education. Instructor***  
The Data Science for Dynamic Decision Making (d3) Lab  
University of Michigan, March 2019
- 2018      ***Introduction to Adaptive and Just-In-Time Adaptive Interventions in Mobile  
Health: Conceptual and Methodological Considerations, Instructor***  
Department of Psychology  
University of Zurich, December 2018
- 2014      ***Summer Institute on Innovative Methods, Instructor***  
Experimental Design and Analysis Methods for Developing Adaptive Interventions:  
Getting SMART  
University of Michigan, Ann Arbor MI, June 2014  
Funded by NIH/NIDA
- 2013      ***Quantitative Methodology Program Seminar, Coordinator/Instructor***  
Survey Research Center, Institute for Social Research  
University of Michigan, Ann Arbor MI
- Methods for Just In Time Adaptive Interventions, Organizer/Speaker***  
University of Michigan, Ann Arbor MI, August 16 2013  
Funded by SRC/ISR, NIH/NIDA, Mcubed  
Link: <https://community.isr.umich.edu/public/jitai/Workshop.aspx>
- 2011-2012      ***Advanced Regression Analysis workshop, Instructor***  
The international summer workshop series in advanced research methods  
Recanati School of Business, Tel Aviv University, Israel  
General evaluation of class: 6.5 (scale of 1-7; 7="excellent")

General evaluation of instructor: 6.8 (scale of 1-7; 7="excellent").

- 2008 **Multivariate Analysis Course**, Graduate Student Instructor  
Faculty Supervisor: Prof. Ayala Cohen  
Department of Industrial Engineering and Management  
Technion, Israel Institute of Technology
- 2007 **Statistics for Managers**, Graduate Student Instructor  
Faculty Supervisor: With Prof. Ayala Cohen  
Department of Industrial Engineering and Management  
Technion, Israel Institute of Technology
- 2006 **Leadership and Organizations**, Guest Instructor  
Faculty Supervisor: Dr. Anit Somech  
School of Education, Haifa University, Israel

#### SERVICE

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- Editorial board: Academy of Management Discoveries
- Advisory Board: Center for Technology and Behavioral Health; Dartmouth College
- Reviewer (Journals):  
Biometrics  
Clinical Trials  
Psychological Methods  
Clinical Psychology: Science and Practice  
Human Relations  
Industrial Relations  
Journal of Health and Social Behavior  
Journal of Organizational Behavior  
Journal of Organizational and Occupational Psychology  
Psychology of Addictive Behaviors  
Journal of Medical Internet Research  
Journal of Applied Psychology  
Journal of Occupational Health Psychology
- Reviewer (Grant Applications):  
- National Institutes of Health: NIDA Avant-Garde Award Program for HIV/AIDS and Drug Use Research (2018)  
- ETH Zurich Research Commission: Mobile Digital Health (2019)  
- Israel Ministry of Science, Technology and Space  
- Center for Technology and Behavioral Health; Dartmouth College