

Daniel Almirall

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Education

- 4/02 - 4/07 University of Michigan & Institute for Social Research, Ann Arbor
PhD, Statistics
- 8/00 - 4/02 University of Michigan, Ann Arbor
MA, Statistics
- 8/96 - 4/00 University of Florida, Gainesville
BS, Mathematics; BA, Statistics
Minor Concentrations: Business and Education

Positions Held

- 1/13 - present Institute for Social Research, Survey Research Center, University of Michigan, Ann Arbor
Research Assistant Professor (Tenure Track)
- 1/10 - 12/12 Institute for Social Research, Survey Research Center, University of Michigan, Ann Arbor
Faculty Research Fellowship
- 6/07 - 10/09 HSR&D, VA Medical Center, Durham, North Carolina
Biostatistician
- 8/07 - 10/09 Department of Biostatistics, Duke University Medical Center, Durham, North Carolina
Assistant Professor
- 6/02 - 4/07 Institute for Social Research, University of Michigan, Ann Arbor
Graduate Student Research Assistant
- 8/06 - 4/07 Statistics Department, University of Michigan, Ann Arbor
Graduate Student Instructor
- 6/04 - 8/04 RAND Corporation, Pittsburgh, Pennsylvania
Summer Associate
- 6/01 - 8/01 Department of Epidemiology, University of Miami, Florida
Research Scientist
- 6/00 - 8/00 Children's Hospital & Harvard School of Public Health, Boston, Massachusetts
Research Intern in Pediatric Cardiology & Biostatistics
- 9/99 - 4/00 Upward Bound Program (US DOE), Santa Fe Community College, Gainesville, Florida
Adjunct Mathematics Instructor
- 9/99 - 4/00 Teaching Center, University of Florida, Gainesville
Assistant Coordinator

Positions Held (continued)

- 9/98 - 4/99 Mathematics Department, University of Florida, Gainesville
Adjunct Instructor
- 1/97 - 8/99 Teaching Center, University of Florida, Gainesville
Tutor and Discussion Leader

Publications

Peer-Reviewed Articles (Methodological Work)

Kilbourne, A.M., **Almirall, D.**, Eisenberg, D., Waxmonsky, J., Goodrich, D.E., Fortney, J.C., Kirchner, J.E., Solberg, L.I., Main, D., Bauer, M.S., Kyle, J., Murphy, S.A., Nord, K.M., Thomas, M.R. (2014). "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*, 9,132. DOI: 10.1186/s13012-014-0132-x.

Collins L.M., Nahum-Shani I., **Almirall D.** (2014). "Optimization of Behavioral Dynamic Treatment Regimens Based on the Sequential Multiple Assignment Randomized Trial (SMART)." *Journal of the Society for Clinical Trials*

Almirall D., Nahum-Shani I., Sherwood N.E., Murphy S.A. (accepted 2014; in press). "Introduction to SMART Designs for the Development of Adaptive Interventions: With Application to Weight Loss Research" *Translational Behavioral Medicine*.

Almirall D., McCaffrey D.F., Griffin, B.A., Ramchand R., Murphy S.A. (accepted June 2013; in press). "Examining Moderated Effects of Additional Adolescent Substance Use Treatment: Structural Nested Mean Model Estimation Using Inverse-Weighted Regression-with-Residuals" *Statistics in Medicine*.

McCaffrey D.F., Griffin B.A., **Almirall D.**, Slaughter M.E., Ramchand R., Burgette L. (accepted 2013; in press). "A Tutorial on Propensity Score Estimation for Multiple Treatments Using Generalized Boosted Models." *Statistics in Medicine*. DOI:10.1002/sim.5753

Almirall D., Compton S.N., Rynn M.A., Walkup J.T., Murphy S.A. (2012). "SMARTer Discontinuation Trials: With Application to the Treatment of Anxious Youth." *Journal of Child and Adolescent Psychopharmacology*, 22(5):364-74.

Nahum-Shani I., Qian M., **Almirall D.**, Pelham W.E., Gnagy B., Fabiano G., Waxmonsky J., Yu J., Murphy S.A. (accepted 2012; in press). "Experimental Design and Primary Data Analysis Methods for Comparing Adaptive Interventions." *Psychological Methods*.

Nahum-Shani I., Qian M., **Almirall D.**, Pelham W.E., Gnagy B., Fabiano G., Waxmonsky J., Yu J., Murphy S.A. (accepted 2012; in press). "Q-Learning: A Data Analysis Method for Constructing Adaptive Interventions." *Psychological Methods*.

Almirall D., Lizotte, D., Murphy S.A. (2012). "SMART Design Issues and the Consideration of Opposing Outcomes," a Discussion of "Evaluation of Viable Dynamic Treatment Regimes in a Sequentially Randomized Trial of Advanced Prostate Cancer" by Wang, Rotnitzky, Lin, Millikan, and Thall. *Journal of the American Statistical Association, Case Studies and Applications*, 107(498):509-12.

Almirall D., Compton S.N., Gunlicks-Stoessel M., Duan N., Murphy S.A. (accepted 2011; in press). "Designing a Pilot Sequential Multiple Assignment Randomized Trial for Developing an Adaptive Treatment Strategy." *Statistics in Medicine*, 31(17):1887-902.

Publications (continued)

Almirall D., McCaffrey D.F., Ramchand R., Murphy S.A.. (2013, print; 2011, e-pub). “Subgroups Analysis when Treatment and Moderators are Time-varying.” *Prevention Science*, 14(2):169-78. DOI: 10.1007/s11121-011-0208-7.

Almirall D., Ten Have T.R., Murphy S.A. (2010; March). “Structural Nested Mean Models for Assessing Time-Varying Causal Effect Moderation.” *Biometrics*, 66(1):131-139.

Bray B.C., **Almirall D.**, Zimmerman R.S., Lynam D., Murphy S.A. (2006). “Assessing the Total Effect of Time-Varying Predictors in Prevention Research.” *Prevention Science* 7(1): 1-17.

Peer-Reviewed Articles (Collaborative Work)

Kilbourne, A.M., **Almirall, D.**, Goodrich, D. E., Lai, Z., Abraham, K. M., Nord, K. M., and Bowersox, N. W. (2014). “Enhancing outreach for persons with serious mental illness: 12-month results from a cluster randomized trial of an adaptive implementation strategy.” *Implementation Science*, 9(1), 163. DOI: 10.1186/s13012-014-0163-3.

Gunlicks-Stoessel, M., Mufson, L., Westervelt, A., Murphy S.A., **Almirall D.** (accepted 2014, in press). “A Pilot SMART for Developing an Adaptive Treatment Strategy for Adolescent Depression”. *Journal of Clinical Child and Adolescent Psychology*.

Ramchand R., Griffin B.A., McCaffrey D.F., **Almirall D.**, and Morral A. (2014). “Do Improvements in Substance Use and Mental Health Symptoms During Treatment Translate to Long-Term Outcomes In The Opposite Domain?” *Journal of Substance Abuse Treatment*

Peris T.S., Compton S.N., **Almirall D.**, Kendall P.C., Albano A.M., Walkup J.T., March J.S., Birmaher B., Ginsburg G.S., Sherrill J., Rynn M.A., McCracken J.T., Keeton C.P., Sakolsk D., Iyengar S., Piacentini J.C. (accepted 2014). “Trajectories of Change in Cognitive Behavior Therapy for Childhood Anxiety.” *Journal of Consulting and Clinical Psychology*

Kilbourne, A.M., Abraham, K.M., Goodrich, D.E., Bowersox, N.W., **Almirall D.**, Lai, Z., Nord, K.M. (accepted 2014). “Re-Engaging Veterans with Serious Mental Illness into Care: Preliminary Results (6 Month Outcomes) from a National Randomized Trial of an Enhanced versus Standard Implementation Strategy.” *Psychiatric Services*

Kilbourne, A.M., Bramlett, M., Barbaresso, M.M., Nord, K.M., Goodrich, D.E., Zongshan, L., Post, E.P., **Almirall D.**, Verchinina, L., Duffy, S.A., Bauer, M.S. (accepted July 2014; in press). SMI Life Goals: Description of a Randomized Trial of a Collaborative Care Model to Improve Outcomes for Persons with Serious Mental Illness. *Contemporary Clinical Trials*.

Kasari C., Kaiser A., Goods K., Nietfeld J., Mathy P., Landa R., Murphy S.A., **Almirall, D. (senior author; played a critical role)** (accepted 2014; in press). “Communication Interventions for Minimally Verbal Children with Autism: Sequential Multiple Assignment Randomized Trial” *Journal of the American Academy of Child and Adolescent Psychiatry*.

Compton S.N., Peris T.S., **Almirall D.**, Birmaher B., Sherill J., Kendall P.C., March J.S., Gosch E.A., Ginsburg G.S., Rynn M.A., Piacentini J.C., McCracken J.T., Keeton C.P., Suvay C., Aschenbrand S.G., Sakolsky D., Iyengar S., Walkup J.T., Albano A.M (accepted 2013; in press). “Predictors and Moderators of Treatment Response in Childhood Anxiety Disorders: Results from the CAMS Trial.” *Journal of Consulting and Clinical Psychology*. DOI:10.1037/a003548.

Griffin B.A., Ramchand R., **Almirall D.**, Slaughter, M., Burgette, L., McCaffrey D.F. (accepted Jan 2014; in press). “Estimating the Causal Effects of Cumulative Treatment Episodes for Adolescents using Marginal Structural Models and Inverse Probability of Treatment Weighting.” *Journal of Substance Abuse Treatment*.

Publications (continued)

Kilbourne A.M., Abraham K.M., Goodrich D.E., Bowersox N.W., **Almirall D.**, Zongshan L., Nord K. (2013). "Cluster randomized adaptive implementation trial comparing a standard versus enhanced implementation intervention to improve uptake of an effective re-engagement program for patients with serious mental illness" *Implementation Science*, 8(136). DOI: 10.1186/1748-5908-8-136.

Yancy, W.S., Coffman, C.J., Geiselman, P.J., Kolotkin, R.L., **Almirall D.**, Oddone, E.Z., Mayer, S.B., Gaillard, L.A., Turner, M., Smith, V.A., Voils, C.I. (2013). "Considering Patient Diet Preference to Optimize Weight Loss: Design Considerations of a Randomized Trial Investigating the Impact of Choice." *Contemporary Clinical Trials*, 35(1):106-116

Franklin M.E., Freeman J., Sapyta J., Moore P., Compton S.N., **Almirall D.**, March J. (accepted 2011; to appear, e-pub available). "Cognitive-Behavior Therapy Augmentation of Pharmacotherapy in Pediatric Obsessive Compulsive Disorder: The Pediatric OCD Treatment Study II (POTS II) Randomized, Controlled Trial." *Journal of American Medical Association*.

Lin P.H., Wang Y., Grambow S.C., Goggins, W., **Almirall D.** (accepted 2011; e-pub available). "Dietary Saturated Fat Intake Is Negatively Associated With Weight Maintenance Among the PREMIER Participants." *Obesity*. DOI: 10.1038/oby.2011.17.

Bosworth H.B., **Almirall D.**, Weiner B.J., Maciejewski M., Kaufman M.A., Powers B.J., Oddone E.Z., Shoou-Yih D.L., Damush T., Newell M, Smith V., Anderson D., Roumie C., and Jackson G.L. for HTN-IMPROVE Investigators (2010). "The Implementation of a Translational Study Involving a Primary Care Based Behavioral Program to Improve Blood Pressure Control: The HTN-IMPROVE Study Protocol." *Implementation Science*, (5) 54.

Sánchez-Ortuño M.M., Edinger J.D., **Almirall D.**, Means M.K. (2010). "Home Is Where Sleep Is: An Ecological Approach to Test the Validity of Actigraphy for the Assessment of Insomnia." *Journal of Clinical Sleep Medicine*, 6(1), 21-29.

Gellad Z.F., **Almirall D.**, Provenzale D., Fisher D.A. (2009). "Time from Positive Screening Fecal Occult Blood Test to Colonoscopy and Risk of Neoplasia." *Digestive Disease Sciences*, 54(11): 2497-2502.

Yancy W.S., **Almirall D.**, Maciejewski M.L., Kolotkin R.L., McDuffie J.R., Westman E.C. (2009). "Effects of Two Weight Loss Diets on Health-related Quality of Life." *Quality of Life Research* 18(3): 281-89.

Mithas S., **Almirall D.**, Krishnan M.S. (2006). "Using Propensity Scores for Causal Inference: Do CRM Systems Cause One-to-one Marketing Effectiveness?" *Statistical Science* 21(2): 223-33.

Newburger J.W., Wypij D., Bellinger D.C., du Plessis A.J., Kuban K.C., Rappaport L.A., **Almirall D.**, Wessel D.L., Jonas R.A., Wernovsky G. (2003). "Length of Stay After Infant Heart Surgery is Associated with Long-Term Cognitive Outcome." *Journal of Pediatrics* July, 143, 67 - 73.

Book Chapters & Other

Almirall D., Blalock J. (in press). "Summary of the Society for Research on Nicotine and Tobacco (SRNT) Treatment Network Webinar: Getting SMART About Developing Individualized Sequences of Health Interventions." *Nicotine and Tobacco Research (Society News)*.

Almirall D., Coffman C.J., Yancy W.S., Murphy S.A. (2010). "Maximum Likelihood Estimation of the Structural Nested Mean Model Using SAS PROC NLP." *Analysis of Observational Health-Care Data Using SAS*. D. Faries, A. Leon, J.M. Haro, B. Obenchain (Editors).

Almirall D., Murphy S.A. (2009). "Dynamic Treatment Regimens." *Encyclopedia of Medical Decision Making*. M.W. Kattan (Editor). Thousand Oaks, CA: Sage Publications.

Publications (continued)

Mithas S., **Almirall D.**, Krishnan M.S. (2009). “A Framework for Causal Enquiry in Information Systems for Observational Studies.” In R.J. Kauffman and P.P. Tallon (Eds.) *Economics, Information Systems, and Electronic Commerce Research II: Advanced Empirical Methodologies*. Armonk, NY: M.E. Sharpe.

Work Submitted for Publication

Almirall D., DiStefano, C., Chang, Y., Shire, S., Lu, X., Nahum-Shani, I., Kasari, C. (submitted Journal of Clinical Child and Adolescent Psychology). Adaptive interventions and longitudinal outcomes in minimally verbal children with ASD: Role of speech-generating devices.

Lu, X., Kasari, C., Nahum-Shani, I., Murphy, S.A., **Almirall D. (senior author)** (submitted Statistics in Medicine). Repeated measures analysis of sequential, multiple assignment, randomized trials: Modeling considerations

Chronis-Tuscano, A., Wang, C.H., Strickland, J., **Almirall D.**, Stein, M.A. (submitted Journal of Clinical Child and Adolescent Psychology). Moving Toward Personalized Treatment of Mothers with ADHD and Their At-Risk Children: A SMART Pilot. Journal of Clinical Child and Adolescent Psychology.

Klasjna, P., Hekler, E., Shiffman, S., Boruvka, A., **Almirall, D.**, Tewari, A., Murphy, S.A. (submitted Health Psychology). Micro-randomized trials: An experimental design for developing just-in-time adaptive interventions.

Work in Progress

Almirall D., Lu X., Kasari C., Nahum-Shani I., (in progress). “Small sample considerations in the comparison of dynamic treatment regimens using SMART data: With applications in autism research.”

Almirall D., Lu X., Griffin, B.A., McCaffrey D.F. (in progress). “Accounting for within-person residual correlation in IPTW estimation of the repeated measures marginal structural model: Practice and pitfalls”

Boruvka, A., **Almirall D.**, Murphy, S.A. (in progress). “Assessing Time-Varying Causal Effect Moderation in Mobile Health: Modeling and Estimation Considerations for Intensive Longitudinal Intervention Data”

Kim, H., **Almirall, D.** (in progress). “A sample size calculator for SMART pilot studies.”

Kidwell, K., Seewald, N., **Almirall, D.** (in progress). “Design and Analysis Considerations for Comparing Dynamic Treatment Regimens with Binary Outcomes from SMART Studies.”

Lu X., Kasari C., Nahum-Shani I., **Almirall D. (senior author)** (in progress). “Repeated Measures Analysis of Sequential Multiple Assignment Randomized Trials”

Griffin B.A., McCaffrey, D.F., **Almirall, D.** (in progress). “Chasing balance versus model fit when estimating propensity scores.”

Workshops and Presentations

Workshops/Talks on Adaptive Interventions and SMART

Getting SMART About Developing Adaptive Interventions: Society for Research on Educational Effectiveness, Washington, DC, March 2014

On the Comparison of Adaptive Interventions Using Data Arising from a SMART: With Application to Autism.: Department of Biostatistics, Columbia University, New York, NY, March 2014

Workshops and Presentations (continued)

Introduction to a SMART Way to Construct Adaptive Interventions (Using MOST): Methods in Prevention Program Packages Meeting (MP3), Washington, DC, November 2013

Introduction to a SMART Way to Construct Adaptive Interventions: Optimizing Behavioral Interventions in HIV Research, Washington, DC, September 2013

Getting SMART About Developing Individualized Sequences of Health Interventions: U.S. Census Bureau, Washington, DC, September 2013

Getting SMART about Developing Individualized, Adaptive Health Interventions: An Introduction to a Novel Experimental Study Design: VA MIRECC and the Mental Health Services Department, University of Maryland School of Medicine, Baltimore, MD, February 2013

Getting SMART about Developing Individualized, Adaptive Health Interventions: An Introduction to a Novel Experimental Study Design: 2.5-hour workshop given at the 6th Annual Advanced Training Institute on Health Behavior Theory, University of Wisconsin, Madison, WI, June 2012.

Getting SMART about Developing Individualized, Adaptive Health Interventions: This was a 2-day workshop, joint with Murphy S.A. on Adaptive Treatment Strategies and using SMART to build Adaptive Treatment Strategies, given for Methods Work LLC, Chicago, IL, June 2012.

Getting SMART About Developing Individualized Sequences of Health Interventions: 8-Hour Workshop joint with Murphy S.A., Association of Behavioral and Cognitive Therapies (ABCT), Toronto, Ontario, Canada, November 2011

Getting SMART About Developing Individualized Sequences of Health Interventions: 4-Hour Workshop, Addiction Health Services Research Conference (AHSR), Fairfax, VA, October 2011

Getting SMART About Developing Individualized Sequences of Health Interventions: 2-Hour Workshop joint with Murphy S.A. (UMich), Oslin D. (UPenn) and Jones H. (RTI), College on Problems of Drug Dependence (CPDD), Hollywood, FL, June 2011

Developing Dynamic, Sequential Treatments that Optimize Mental Health Outcomes: Experiences with a Novel Clinical Trial Design: 4-Hour Workshop joint with Murphy S.A. (UMich), McKay J. (UPenn), Pelham W. (FIU), Jones H. (RTI) and Kasari C. (UCLA), New Clinical Drug Evaluation Unit (NCDEU), Boca Raton, FL, June 2011

Getting SMART About Developing Individualized, Adaptive Health Interventions: 8-Hour Workshop joint with Susan A. Murphy, University of Minnesota NIMH Prevention Center (PI: Gerald August), Minneapolis/St. Paul, MN, June 2011

Getting SMART About Developing Individualized Sequences of Health Interventions: 3-Hour Workshop joint with Susan A. Murphy, Annual Meeting of the Society of Behavioral Medicine, Washington, DC, April 2011

Presentations Given

Almirall D., McCaffrey, D.F., Griffin, B.A., Ramchand, R., Murphy, S.A. (2013, February). *Examining moderated effects of additional adolescent substance use treatment: Structural nested mean model estimation using inverse-weighted regression-with-residuals.* Department of Epidemiology and Biostatistics, University of Maryland School of Medicine, Baltimore, MD.

Almirall D., Collins, L., Murphy, S.A. (2012, November). *Getting SMART about Developing Individualized Sequences of Health Interventions.* Innovative Methods Program for Advancing Clinical Trials (IMPACT), Second IMPACT Symposium on “Clinical Trials in the Era of Personalized Medicine,” Raleigh, NC.

Workshops and Presentations (continued)

Almirall D., Murphy, S.A. (2012, October). *Piloting and Sizing Sequential Multiple Assignment Randomized Trials in Dynamic Treatment Regime Development*. Advances in Interdisciplinary Statistics and Combinatorics, University of North Carolina, Greensboro, NC.

Almirall D., McCaffrey, D.F., Griffin, B.A., Ramchand, R., Murphy, S.A. (2012, September). *Examining moderated effects of additional adolescent substance use treatment: Structural nested mean model estimation using inverse-weighted regression-with-residuals*. Department of Statistics, George Mason University.

Almirall D. (2012, July). *Variable Selection for Individualized Treatment Decision-Making*. Joint Statistical Meetings, San Diego, California.

Almirall D., McCaffrey, D.F., Griffin, B.A., Ramchand, R., Murphy, S.A. (2012, July). *Examining moderated effects of additional adolescent substance use treatment: Structural nested mean model estimation using inverse-weighted regression-with-residuals*. Institute of Mathematical Statistics, Asia Pacific Rim Meeting, Tsukuba, Japan.

Almirall D., Patrick, M. (2012, March). *An Adaptive Intervention for Reducing College Student Alcohol-Related Consequences: A SMART Pilot Study Proposal*. Center for the Study of Health and Risk Behaviors, University of Washington, Seattle, WA.

Almirall D., Compton S.N., Murphy S.A. (2012, March). *Developing Adaptive Health Interventions: Getting SMART*. AIMS Center, University of Washington, Seattle, WA.

Almirall D., McCaffrey D.F., Griffin B.A., Ramchand, R., Yuen, R.A., Murphy S.A. (2012, March). *Examining moderated effects of additional adolescent substance use treatment: Structural nested mean model estimation using inverse-weighted regression-with-residuals*. RAND Corporation, Pittsburgh, PA.

Almirall D., McCaffrey D.F., Griffin B.A., Ramchand, R., Murphy S.A. (2011, December). *Examining moderated effects of additional adolescent substance use treatment: Structural nested mean model estimation using inverse-weighted regression-with-residuals*. University of Michigan, Biostatistics Department Seminar Series, Ann Arbor, MI.

Almirall D., McCaffrey D.F., Griffin B.A., Ramchand, R., Murphy S.A. (2011, October). *Examining moderated effects of additional adolescent substance use treatment: Structural nested mean model estimation using inverse-weighted regression-with-residuals*. International Conference on Health Policy Statistics, Cleveland, OH.

Almirall D., Collins, L., Murphy S.A. (2011, October). *Experimental Designs for Developing Adaptive Treatment Strategies*. Invited pre-conference presentation Steps for Maximizing Study Design in Obesity Prevention Research, Annual Meeting of the Obesity Society, Orlando, FL.

Almirall D., Collins, L., Murphy S.A. (2011, June). *Experimental Designs for Developing Adaptive Treatment Strategies*. Invited presentation for the Childhood Obesity Prevention and Treatment Research (COPTR) research program. 73 participants in attendance! Presentation given over the phone, joint with Dr. Linda Collins.

Almirall D., Compton S.N., Murphy S.A. (2011, April). *Experimental Designs for Developing Adaptive Treatment Strategies*. Pre-conference Workshop Presentation on Optimizing Behavioral Interventions, Annual Meeting of the Society of Behavioral Medicine, Washington, DC.

Almirall D., McCaffrey D.F., Griffin B.A., Murphy S.A. (2010, August). *Time-varying Causal Effect Moderation in the Presence of Time-varying Confounding using Structural Nested Mean Models*. Joint Statistical Meetings, Vancouver, Canada.

Workshops and Presentations (continued)

Almirall D., Compton S.N., Murphy S.A. (2010, June). *Experimental Designs for Developing Adaptive Treatment Strategies: With Application to the Management of Bipolar Disorder*. International College of Neuro-psychopharmacology (CINP) Congress, Hong Kong, China.

Almirall D., Schoeni R.F., Sastry N. (2010, June). *Participation in the Supplemental Nutrition Assistance Program and its Impact on Child BMI*. PSID Early Results Workshop, Institute for Social Research, University of Michigan, Ann Arbor.

Almirall D., McCaffrey DF, Ramchand R, Murphy S. (2010, March). *Subgroups Analysis when Treatment and Moderators are Time-Varying*. Joint Session of the Methodology Center and Prevention Center, Pennsylvania State University, State College.

Almirall D., Ten Have T., Murphy S. (2010, January). *Structural Nested Mean Models for Assessing Time-Varying Effect Moderation*. Prevention Science and Methodology Group (Hendricks Brown's), University of South Florida. (Invited Seminar)

Almirall D., Ten Have T., Murphy S. (2009, January). *Structural Nested Mean Models for Assessing Time-Varying Effect Moderation*. Causal Inference Working Group (Stephen Cole's), University of North Carolina, Chapel Hill. (Invited Seminar)

Almirall D., Compton S., Murphy S. (2009, September). *Experimental Designs for Developing Adaptive Treatment Strategies: With Application to the Management of Child Anxiety*. Health Services Research & Development Seminar Series, Durham, NC.

Almirall D., et al. (2009, September). *Causal Effect Moderation (Modification) When Treatment or Exposure is Time-Varying: When to use the MSM versus the SNMM*. Federal Interagency Subgroups Analysis Meeting, Bethesda, MD. (Invited Seminar)

Almirall D., Ten Have T., Murphy S. (2009, September). *Structural Nested Mean Models for Assessing Time-Varying Effect Moderation*. Causal Inference Working Group, University of North Carolina, Chapel Hill. (Invited Seminar)

Almirall D., Coffman C, Yancy WS, Murphy SA (2009, August). *Structural Nested Mean Models for Assessing Time-Varying Causal Effect Moderation: Working Toward a MLE of the SNMM*. Joint Statistical Meetings, Washington, DC.

Almirall D., Compton S., Murphy S. (2009, August). *Experimental Designs for Developing Adaptive Treatment Strategies: With Application to the Management of Child Anxiety*. Institute of Psychiatry, University of Sao Paulo, Brazil. (Invited Seminar)

Almirall D., Ten Have T., Murphy S. (2009, May). *Structural Nested Mean Models for Assessing Time-Varying Effect Moderation*. Atlantic Coast Causal Modeling Conference, Philadelphia, Pennsylvania. (Invited Seminar)

Almirall D., Compton S., Murphy S. (2008, May). *Experimental Designs for Developing Adaptive Treatment Strategies: With Application to the Management of Child Anxiety*. NIMH-NCDEU Conference, Phoenix, AZ. (Invited Seminar)

Almirall D., Ten Have T., Murphy S. (2007, September). *Structural Nested Mean Models for Assessing Time-Varying Effect Moderation: With Applications in Mental Health*. Biostatistics Seminar Series, Department of Statistics, North Carolina State University, Raleigh.

Almirall, D. (2007, September) *Assessing the Effects of Time-Varying Predictors and Treatments: Conceptual Issues*. Health Services Research & Development Seminar Series, Durham VA Medical Center.

Workshops and Presentations (continued)

Almirall D., Ten Have T., Murphy S. (2007, July). *Structural Nested Mean Models for Assessing Time-Varying Effect Moderation: With Applications in Mental Health*. Joint Statistical Meetings Conferences, Salt Lake City, UT.

Almirall D. (2007, March). *Structural Nested Mean Models for Assessing Time-varying Effect Moderation*. Poster presented at the Michigan Student Symposium for Interdisciplinary Statistical Sciences in Ann Arbor, MI.

Almirall D. (2006, November). *Causal Effect Moderation with Application to Level of Care Matching for Adolescent Substance Abuse Treatment*. Paper presented at the Graduate Student Seminar Series, Department of Statistics, University of Michigan, Ann Arbor, MI.

Almirall D. (2006, August). *Structural Nested Mean Models for Assessing Time-varying Effect Moderation*. Poster presented at the Joint Statistical Meetings, Seattle, WA.

Almirall D. (2006, May). *Structural Nested Mean Models for Assessing Time-varying Effect Moderation*. Paper presented at the Durham VA Medical Center, Health Services Research & Development Department, Durham, NC.

Almirall D. (2006, March). *Structural Nested Mean Models for Assessing Time-varying Effect Moderation*. Paper presented at the International Biometric Society's Eastern North American Region subdivision Spring Meetings, Tampa, FL. This work won an award for *Distinguished Student Paper*.

Almirall D. (2005, October). *Why Study Time-varying Effect Moderation?* Presented at the Quantitative Methodology Program, Institute for Social Research, University of Michigan, Ann Arbor, MI.

Almirall D. (2004, November). *Structural Nested Mean Models for Assessing Time-varying Effect Moderation*. Paper presented at the Graduate Student Seminar Series, Department of Statistics, University of Michigan, Ann Arbor, MI.

Current and Past Grant Funding

Principal Investigator Role

2012 - present NIMH/NIH, R03-MH097954. *Discovering Tailoring Variables in Childhood Mental Health Treatment Research*.

2010 - present United States Department of Agriculture, Cooperative Agreement 58-4000-0-0026. *Dynamic Participation in the Supplemental Nutrition Assistance Program and Its Impact on Child Overweight*. (\$25,000)

Co-Investigator Role

2012 - present NICHD/NIH, R01-HD73975. *Adaptive Interventions for Minimally Verbal Children with ASD in the Community* (Principal Investigator: Connie Kasari, Ph.D., University of California, Los Angeles)

2012 - present NIDA/NIH, R01-DA034065. *SMART Methodology for Constructing Adaptive Treatments*. (Principal Investigator: Beth Ann Griffin, Ph.D., RAND Corporation)

2013 - present NICHD/NIH, R01-HD074603. *Heterogeneous Treatment Effects in Demographic Research* (Principal Investigator: Yu Xie, Ph.D., Survey Research Center & Institute for Social Research, University of Michigan)

Current and Past Grant Funding (continued)

- 2010 - present NIDA/NIH, P50-DA10075. *SMART Methodology for Constructing Adaptive Treatments*. (Principal Investigator: Susan A. Murphy, Ph.D., Department of Statistics & Institute for Social Research, University of Michigan) (\$336,271)
- 2012 - present Veterans Affairs, IPA Sub-contract. *Life Goals Collaborative Care to Improve Health Outcomes in Mental Disorders* (Principal Investigator: Amy Kilbourne, Ph.D., University of Michigan)
- 2007 - 2010 Department of Veterans Affairs, VHA, IIR-05-213-1. *Sleep Specialty Consultation: Improving Management of Sleep Disorders*. (Principal Investigator: Jack Edinger, Ph.D., Durham VA & Duke University Medical Center, Psychiatry) (\$769,000)
- 2007 - 2010 Department of Veterans Affairs, VHA. *HTN Implementation Project*. (Principal Investigator: Hayden Bosworth, Ph.D., Durham VA & Duke University Medical Center, General Medicine) (\$900,000)
- 2007 - 2012 Department of Veterans Affairs, VHA, IIR-05-202-2. *Family Supported Smoking Cessation for Chronically Ill Veterans*. (Principal Investigator: Lori Bastian, Ph.D., Durham VA & Duke University Medical Center, General Internal Medicine) (\$900,000)
- 2006 - 2007 Samuelli Institute & Department of Defense, IEA-0000040. *Effects of Guided Imagery for Military Sexual Trauma on PTSD Symptoms, Neurosteroids, and Brain Function*. (Principal Investigator: Jennifer Strauss, Ph.D., Durham VA & Duke University Medical Center, Psychiatry) (\$175,000)
- 2007 - 2012 National Institute of Mental Health, R01-MH079154. *Family Based Treatment of Early Childhood OCD*. (Principal Investigator: John March, Ph.D., Duke University Medical Center, Psychiatry) (\$170,000)

Consulting Role

- 2006 - 2009 National Institute of Mental Health, R01-MH078698-01. *Antidepressants, Concurrent Treatments, and Completed Suicide in VA Registry Data*. (Principal Investigator: Marcia Valenstein, M.D., Ann Arbor VA & University of Michigan) (\$1,156,964)

Teaching

Graduate/Medical School Courses

Topics in Clinical Research (Ad-hoc Lecturer): Clinical Research Training Program, Duke University Medical Center: Winter 2008

Short Courses

Models for Examining the Impact of Time-varying Treatments or Predictors: Association for Behavior and Cognitive Therapies, Orlando, November 2008

Undergraduate Courses

Introduction to Statistics (Discussion Leader): University of Michigan: Fall 2006, Winter 2007

Introduction to Probability (Substitute): University of Michigan: Fall 2013, Winter 2006, 2011

Pre-calculus Algebra: University of Florida: Fall 1998, Spring 1999

Teaching (continued)

Pre-Calculus, Survey of Calculus, and Calculus I (Discussion Leader): University of Florida: Spring 1997 - Spring 2000

High School

SAT/ACT Exam Preparation Courses: Santa Fe Community College: Fall 1999, Spring 2000

Professional Service and Affiliations

- 2008 - present Member: Internal Grant Review Committee, Health Services Research Department, Durham VA Medical Center
- 2008 - present Member: PhD and Masters Curriculum Committee, Biostatistics & Bioinformatics Department, Duke University Medical Center
- 2008 - present Member: Society for Clinical Trials
- 2003 - present Member: International Biometric Society's Eastern North American Region subdivision
- 2002 - present Member: Institute of Mathematical Statistics, and American Statistical Association
- Journal Referee Journal of the American Statistical Association, Sociological Methodology, Journal of Consulting and Clinical Psychology, Journal of the American Academy of Child and Adolescent Psychiatry, Journal of Clinical Child and Adolescent Psychology, Biometrics, American Journal of Evaluation, Annals of Applied Statistics, Statistics in Medicine
- Special Issue 2012-2015: Co-Editor (with Professor Andrea Chronis-Tuscano) of a Special Issue on "Science of Adaptive Treatment Strategies in Child and Adolescent Mental Health" for the *Journal of Clinical Child and Adolescent Psychology*.

Awards, Fellowships and Scholarships

- 2001 - 2006 Rackham Merit Doctoral Fellowship, provided full tuition plus stipend support, awarded by the Graduate School at the University of Michigan.
- 2/06 Rackham Travel Award to present a dissertation-based paper at the International Biometric Society's Eastern North American Region subdivision Spring Meetings in Tampa, Florida. Awarded by the Graduate School of the University of Michigan. (\$400)
- 1/06 Distinguished Student Paper Award for a dissertation-based paper (with Professors Thomas Ten Have and Susan A. Murphy) entitled "Structural Nested Mean Models for Assessing Time-Varying Effect Moderation: An Illustration". Awarded by the International Biometric Society's Eastern North American Region subdivision. (\$500)
- 2000 - 2001 Tuition and stipend support, awarded by the Committee on Institutional Cooperation in cooperation with the Graduate School at the University of Michigan, for first year graduate studies at the University of Michigan.
- 1999 Andersen Consulting (now, the Accenture Corporation) Foundation Scholarship to study at the University of Florida

Awards, Fellowships and Scholarships (continued)

1999	Colonel Glenn Farris Scholarship to study at the University of Florida, awarded by the Center for Latin American Studies, University of Florida
1998 - 2000	Anderson Scholar, College of Liberal Arts and Sciences Fall Convocations, University of Florida
1997, 1999	National Hispanic Scholarship Fund scholarship to study at the University of Florida
1997	Glancy Scholarship to study at the University of Florida
1996 - 2000	Florida Scholars Merit Scholarship to study at the University of Florida

Community Service and Other Activities

2003 - 2007	Big brother in the <i>Big Brothers, Big Sisters Program</i> of Washtenaw County (HelpSource Agency), Ypsilanti, Michigan
2000 - 2005	Co-Founder & Instructor, MSalsa non-profit dance organization, University of Michigan
2003 - 2005	Executive Board Member, Yoruba Andabo non-profit dance organization, Detroit, Michigan
1999	Secretary, Hispanic Student Business Association, University of Florida
1998 - 1999	President, Cuban-American Student Association, University of Florida
1998 - 1999	Executive Finance Board Member, Hispanic Student Association, University of Florida

Other Skills

Programming

Statistical R, SAS

Other Fortran, HTML, L^AT_EX

Languages

Fluent Spanish, English

References are available upon request.