

# DONNA L. COFFMAN

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Philadelphia, PA 19122

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## DEGREES

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|---|------|
| <b>Ph.D., Quantitative Psychology</b><br>The University of North Carolina, Chapel Hill<br>Advisor: Robert C. MacCallum<br>Dissertation: <i>Consequences of violating the parameter drift assumption in covariance structure models</i>                            | 2005 |
| <b>M.A., Psychological Sciences</b><br>James Madison University, Harrisonburg, VA<br>Thesis: <i>The effects of enriched and impoverished environments on preference for a saccharine solution in rats.</i>  | 2001 |
| <b>B.S., Psychology</b><br>James Madison University, Harrisonburg, VA<br>Graduated with distinction in Psychology.<br>Honors Thesis: <i>The relationship of stress, social support, and self-efficacy with life satisfaction among freshman college students.</i> | 1999 |

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## PROFESSIONAL EXPERIENCE

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| <b>Assistant Professor</b><br>Department of Epidemiology and Biostatistics<br>College of Public Health<br>Temple University  | 2016 -present |
| <b>Research Associate Professor</b><br>College of Health and Human Development<br>Pennsylvania State University  | 2013 - 2016   |
| <b>Senior Research Associate</b><br>The Methodology Center<br>Pennsylvania State University  | 2013 - 2016   |
| <b>Program Director</b><br>Prevention and Methodology Pre- and Post-doctoral Training Program<br>National Institute on Drug Abuse Institutional Training Grant (5T32 DA017629)<br>The Prevention Research Center and The Methodology Center<br>Pennsylvania State University | 2012 - 2014   |
| <b>Research Assistant Professor</b><br>College of Health and Human Development<br>Pennsylvania State University  | 2011 - 2013   |
| <b>Research Associate</b><br>The Methodology Center  | 2008 - 2013   |

Pennsylvania State University

**Postdoctoral Fellow**

2006 - 2007

Ruth L. Kirschstein National Research Service Award Institutional Training Grant  
National Institute on Drug Abuse Prevention and Methodology Training Program  
The Prevention Research Center and The Methodology Center  
College of Health and Human Development  
Pennsylvania State University

## RESEARCH SUPPORT

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**Ongoing**

Novel Methods to Identify Momentary Risk States for Stress & Physical Inactivity 2014-2017  
K01 ES025437  
PHS NIH NIEHS  
Role: Principal Investigator (PI)

**Completed**

Dyadic Influence in Genomic Medicine: Couples Beliefs, Disclosures, and Well-Being 2014-2016  
R21 HG007111 (PI: Rachel Smith)  
PHS NIH NHGRI  
Role: Co-Investigator

Social Ecological Determinants of Young Adult Sexual Risk Behavior 2014-2016  
R03 HD079711 (PI: Kari Kugler)  
PHS NIH NICHD  
Role: Co-Investigator

Center for Prevention and Treatment Methodology 2010-2015  
P50 DA10075 (PI: Linda Collins)  
PHS NIH NIDA  
Role: Scientific Project Director

HealthWise Dissemination: Translation to Multiple Schools 2010-2015  
R01 DA029084 AI (PI: Linda Caldwell)  
PHS NIH NIDA  
Role: Co-Investigator

Mexican Children of Immigrants 2011-2015  
1P01HD62498-01AI (PI: Nancy Landale)  
PHS NIH NICHD  
Role: Co-Investigator

Geisinger Rural Aging Study 2009-2014  
1950-51530-010-00D (Subcontract PI: Gordon Jensen)  
U.S. Department of Agriculture (ARS-USDA)  
Role: Co-Investigator

Is Low-Level Arsenic Exposure Related to Neurobehavioral Deficits in Children? 2012-2014  
5R21 ES019949 (PI: Kasia Kordas)  
PHS NIH NIEHS  
Role: Co-Investigator

Marginal Causal Models for Observational Studies in Obesity Research 2009-2012  
5R21 DK082858-02  
PHS NIH NIDDK  
Role: Co-Investigator (7/1/09 – 6/30/11); PI (7/1/11 – 6/30/2012)

Antioxidant Status, Diet and Early Pregnancy 2010-2011  
1R01HD49762-01A2 (Subcontract PI: Terryl Hartman)

PHS NIH NICHD Role: Co-Investigator	
Causal Inference for Mediation Models in Substance Abuse Prevention Research 1R03DA026543 PHS NIH NIDA Role: Principal Investigator	2009-2011
Center for Prevention and Treatment Methodology P50 DA10075 (PI: Linda Collins) PHS NIH NIDA Role: Co-Investigator	2008-2010
Aligning Forces for Quality #: 59997 (PI: Dennis Scanlon) Robert Wood Johnson Foundation Role: Statistical Consultant	2008-2009
Geisinger Rural Aging Study 1950-51530-008-00D (Subcontract PI: Terryl Hartman) U.S. Department of Agriculture (ARS-USDA) Role: Co-Investigator	2008-2009
Drug Resistant Strategies Minority Project R01 DA005629-09A2 (PI: Michael Hecht) PHS NIH NIDA Role: Co-Investigator	2008

## PUBLICATIONS

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### ***Journal Articles – in press and published***

\*indicates student mentee

\*\*indicates postdoctoral mentee

\*\*Schuler, M. S., \*Chu, W., & **Coffman, D. L.** (in press). Propensity score weighting for a continuous treatment in a multilevel data setting. *Health Services and Outcomes Research Methodology*.

Selya, A., Engel-Rebitzer, E., Dierker, L., Stephen, E., Rose, J., **Coffman, D. L.**, & Otis, M. (2016). The causal effect of student mobility on standardized test performance: A case study with possible implications for accountability mandates within the elementary and secondary education act. *Frontiers in Psychology, 7*:1096. doi: 10.3389/fpsyg.2016.01096

**Coffman, D. L.**, \*Balantekin, K., & Savage-Williams, J. (2016). Using propensity methods to assess causal effects of mothers' dieting behavior on daughters' early dieting behavior. *Childhood Obesity*. Advance online publication. PMID: PMC

\*\*Henneberger, A. K., & **Coffman, D. L.** (2016). The effect of having aggressive friends on aggressive behavior in childhood: Using propensity scores to strengthen causal inference. *Social Development*. Advance online publication. doi: 10.1111/sode.12186 PMID: PMC

\*Powers, C. J., Bierman, K., & **Coffman, D. L.** (2016). Restricted educational placements for students with early-starting conduct problems: Associations with high school non-completion and adolescent maladjustment. *Journal of Child Psychology and Psychiatry, 57*(8), 899-908. doi: 10.1111/jcpp.12487 PMID: PMC

Kugler, K. C., Vasilenko, S. A., & **Coffman, D. L.** (2015). Long-term consequences of early sexual initiation on young adult health: A causal inference approach. *Journal of Early Adolescence*. Advance online publication. doi: 10.1177/0272431615620666 PMID: PMC

\*Miller, J. A., Smith, E. A., **Coffman, D. L.**, Mathews, C., & Wegner, L. (2015). Forced sexual experiences and sexual situation self-efficacy among South African youth. *Journal of Research on Adolescence*. Advance online publication. doi: 10.1111/jora.12217 PMID: PMC

- \*Zhu, Y., Ghosh, D., **Coffman, D. L.**, & Savage-Williams, J. (2016). Estimating controlled direct effects of restrictive feeding practices in the 'Early dieting in girls' study. *Journal of the Royal Statistical Society, Series C (Applied Statistics)*, 65(1), 115-130. doi: 10.1111/rssc.12109 NIHMSID: 677650
- Ghosh, D., Zhu, Y., & **Coffman, D. L.** (2015). Penalized regression procedures for variable selection in the potential outcomes framework. *Statistics in Medicine*, 34, 1645-1658. doi: 10.1002/sim.6433 PMID: PMC4390482
- \*Scalco, M., Trucco, E., **Coffman, D. L.**, & Colder, C. (2015). Selection and socialization effects in early adolescent alcohol use: A propensity score analysis. *Journal of Abnormal Child Psychology*, 43, 1131-1143. doi: 10.1007/s10802-014-9969-3 PMID: PMC4496301
- Kordas, K., Ardoino, G., **Coffman, D. L.**, Queirolo, E. I., Ciccariello, D., Manay, N., & Ettinger, A. (2015). Patterns of exposure to multiple metals and associations with neurodevelopment of preschool children from Montevideo, Uruguay. *Journal of Environmental and Public Health*, 2015, 493471. doi: 10.1155/2015/493471 PMID: PMC4324918
- Zhu, Y., Schonbach, M., **Coffman, D. L.**, & Savage-Williams, J. (2015). Variable selection for propensity score estimation via balancing covariates. *Epidemiology*, 26(2), e14-15. doi: 10.1097/EDE.0000000000000237
- Coffman, D. L.**, Melde, C., & Esbensen, F.-A. (2015). Gang membership and substance use: Guilt as a gendered causal pathway. *Journal of Experimental Criminology*, 11(1), 71-95. doi: 10.1007/s11292-014-9220-9 PMID: PMC4503338
- \*Zhu, Y., **Coffman, D. L.**, & Ghosh, D. (2015). A boosting algorithm for estimating generalized propensity scores with continuous treatments. *Journal of Causal Inference*, 3, 25-40. doi: 10.1515/jci-2014-0022
- Van Hook, J., Bachmeier, J. D., **Coffman, D. L.**, & Harel, O. (2015). Can we spin straw into gold? An evaluation of immigrant legal status imputation approaches. *Demography*, 52, 329-354. doi: 10.1007/s13524-014-0358-x PMID: PMC4318768
- \*Jones, J., Hartman, T. J., Klifa, C. S., **Coffman, D. L.**, Mitchell, D. C., Vernarelli, J. A., Snetselaar, L. G., Van Horn, L., Stevens, V. J., Robson, A. M., Himes, J. H., Shepherd, J. A., & Dorgan, J. F. (2015). Dietary energy density is positively associated with breast density among young women. *Journal of the Academy of Nutrition and Dietetics*, 115, 353-359. doi: 10.1016/j.jand.2014.08.015 PMID: PMC4344841
- Conroy, D. E., Ram, N., Pincus, A. L., **Coffman, D. L.**, Lorek, A. E., Rebar, A. L., & Roche, M. J. (2015). Daily physical activity and alcohol use across the adult lifespan. *Health Psychology*, 34, 653-660. doi: 10.1037/hea0000157 PMID: PMC4362843
- \*Crowley, D. M., Jones, D. E., **Coffman, D. L.**, & Greenberg, M. T. (2014). Can we build an efficient response to the prescription drug abuse epidemic? Assessing the cost effectiveness of universal prevention. *Preventive Medicine*, 62, 71-77. doi: 10.1016/j.ypmed.2014.01.029. PMID: PMC4131945
- \*Ford, D. W., Hartman, T. J., Still, C., Wood, G. C., Mitchell, D. C., Bailey, R., Smiciklas-Wright, H., **Coffman, D. L.**, & Jensen, G. (2014). Diet quality and body mass index are associated with healthcare resource use in rural older adults. *Journal of the Academy of Nutrition and Dietetics*, 114(12), 1932-1938. doi: 10.1016/j.jand.2014.02.016
- \*Butera, N. M., Lanza, S. T., & **Coffman, D. L.** (2014). A framework for estimating causal effects in latent class analysis: Is there a causal link between early sex and subsequent profiles of delinquency? *Prevention Science*, 15(3), 397-407. doi: 10.1007/s11121-013-0417-3 PMID: PMC3888479
- \*Ford, D. W., Hartman, T. J., Still, C., Wood, G. C., Mitchell, D., Erickson, P., Bailey, R., Smiciklas-Wright, H., **Coffman, D. L.**, & Jensen, G. (2014). Body mass index, poor diet quality, and health-related quality of life are associated with mortality in rural older adults. *Journal of Nutrition in Gerontology and Geriatrics*, 33(1), 23-34. doi: 10.1080/21551197.2014.875819
- \*Ford, D. W., Jensen, G., Still, C., Wood, C., Mitchell, D., Erickson, P., Bailey, R., Smiciklas-Wright, H., **Coffman, D. L.**, & Hartman, T. J. (2014). The associations between diet quality, body mass index (BMI) and health related quality of life (HRQOL) in the Geisinger Rural Aging Study (GRAS). *Journal of Nutrition, Health, & Aging*, 18, 167-170.

- \*Crowley, D. M., **Coffman, D. L.**, Feinberg, M. E., & Greenberg, M. T. (2014). Evaluating the impact of implementation factors on family-based prevention programming: Methods for strengthening causal inference. *Prevention Science, 15*(2), 246-255. doi: 10.1007/s1121-012-0352-8 PMID: PMC3859719
- \*Solmeyer, A. R., Feinberg, M. E., **Coffman, D. L.**, & Jones, D. E. (2014). The effects of the Family Foundations prevention program on coparenting and child adjustment: A mediation analysis. *Prevention Science, 15*(2), 213-233. doi: 10.1007/s1121-013-0366-x PMID: PMC3683104
- Smith, R. A., Wienke, S. E., & **Coffman, D. L.** (2014). Alpha-1 couples: Interpersonal and intrapersonal predictors of spousal communication and stress. *Journal of Genetic Counseling, 23*(2), 212 - 220. doi:10.1007/s10897-013-9639-6 PMID: PMC3921266
- \*Lippold, M., **Coffman, D. L.**, & Greenberg, M. T. (2014). Investigating the potential causal relationship between parental knowledge and youth risky behavior: A propensity score analysis. *Prevention Science, 15*, 869-878. doi: 10.1007/s1121-013-0443-1 PMID: PMC4039612
- \*Ford, D. W., Hartman, T. J., Still, C., Wood, C., Mitchell, D., Hsiao, P.-Y., Bailey, R., Smiciklas-Wright, H., **Coffman, D. L.**, & Jensen, G. (2014). Diet-related practices and body mass index (BMI) associated with diet quality in older adults. *Public Health Nutrition, 17*(7), 1565-1569. doi: 10.1017/S1368980013001729
- Lanza, S. T., **Coffman, D. L.**, & \*\*Xu, S. (2013). Causal inference in latent class analysis. *Structural Equation Modeling, 20*, 361-383. doi: 10.1080/10705511.2013.797816 PMID: PMC4240500
- \*Hsiao, P.-Y., Mitchell, D. C., **Coffman, D. L.**, Allman, R. M., Locher, J. L., Sawyer, P., Jensen, G. L., & Hartman, T. J. (2013). Dietary patterns and diet quality among diverse older adults: The University of Alabama at Birmingham study of aging. *Journal of Nutrition, Health, & Aging, 17*(1), 19-25. doi: 10.1007/s12603-012-0082-4 PMID: PMC3574872
- \*Hsiao, P.-Y., Mitchell, D. C., **Coffman, D. L.**, Wood, G. C., Hartman, T. J., Still, C., & Jensen, G. L. (2013). Dietary patterns and relationship to obesity-related health outcomes and mortality in adults 75 years of age or greater. *Journal of Nutrition, Health, & Aging, 17*(6), 566-572. doi: 10.1007/s12603-013-0014-y
- \*Lindgren, J., Dorgan, J. F., Savage-Williams, J., **Coffman, D. L.**, & Hartman, T. J. (2013). Diet across the lifespan and the association with breast density in adulthood. *International Journal of Breast Cancer, 2013*, Article ID 808317, 26 pages. doi: 10.1155/2013/808317 PMID: PMC3574651
- Coffman, D. L.**, Caldwell, L. L., & Smith, E. A. (2012). Introducing the at-risk average causal effect with application to HealthWise South Africa. *Prevention Science, 13*(4), 437-447. doi: 10.1007/s1121-011-0271-0 c PMID: PMC3405190
- Coffman, D. L.**, & Kugler, K. C. (2012). Causal mediation of a human immunodeficiency virus preventive intervention. *Nursing Research, 61*(3), 224-230. PMID: PMC2646486
- Coffman, D. L.**, & \*Zhong, W. (2012). Assessing mediation using marginal structural models in the presence of confounding and moderation. *Psychological Methods, 17*(4), 642-664. doi: 10.1037/a0029311 PMID: PMC3553264
- \*Hsiao, P.-Y., Jensen, G. L., Hartman, T. J., Mitchell, D. C., Nickols-Richardson, S. M., & **Coffman, D. L.** (2011). Food intake patterns and body mass index in older adults: A review of the epidemiological evidence. *Journal of Nutrition in Gerontology and Geriatrics, 30*(3), 204-224.
- Coffman, D. L.** (2011). Estimating causal effects in mediation analysis using propensity scores. *Structural Equation Modeling, 18*(3), 357-369. PMID: PMC3212948
- Sharp, E., **Coffman, D. L.**, Caldwell, L., Smith, E. A., Wegner, L., Vergnani, T., & Mathews, C. (2011). Predicting substance use behavior among South African adolescents: The role of leisure experiences across time. *International Journal of Behavioral Development, 35*(4), 343-351. PMID: PMC3375719
- Coffman, D. L.**, Smith, E. A., Flisher, A. J., & Caldwell, L. L. (2011). Effects of HealthWise South Africa on condom use self-efficacy. *Prevention Science, 12*(2), 162-172. PMID: PMC3102775

- Maydeu-Olivares, A., **Coffman, D. L.**, Garcia-Forero, C., & Gallardo-Pujol, D. (2010). Hypothesis testing for coefficient alpha: A SEM approach. *Behavior Research Methods*, *42*(2), 618-625. PMID: PMC3027072
- Caldwell, L. L., Bradley, S., & **Coffman, D. L.** (2009). A person-centered approach to individualizing a school-based universal prevention intervention. *American Journal of Drug and Alcohol Abuse*, *35*(4), 214-219. PMID: PMC2829713
- Coffman, D. L.**, & BeLue, R. (2009). Using item response theory to detect differential item functioning in health disparities research. *Journal of Community Psychology*, *37*(5), 1-12. PMID: PMC2772185
- Maydeu-Olivares, A., Kramp, U., Garcia-Forero, C., Gallardo-Pujol, D., & **Coffman, D. L.** (2009). The effect of varying the number of response alternatives in rating scales: Experimental evidence from intra-individual effects. *Behavior Research Methods*, *41*(2), 295-308.
- Coffman, D. L.** (2008). Model error in covariance structure models: Some implications for power and Type I error. *Methodology*, *4*(4), 159-167. PMID: PMC3039454
- Coffman, D. L.**, Maydeu-Olivares, A., & Arnau, J. (2008). Asymptotically distribution-free interval estimation for an intraclass correlation coefficient with applications to longitudinal data. *Methodology*, *4*(1), 4-9.
- Coffman, D. L.**, Patrick, M. E., Palen, L., Rhoades, B. L., & Ventura, A. K. (2007). Why do high school seniors drink? Implications for a targeted approach to intervention. *Prevention Science*, *8*, 241-248.
- Maydeu-Olivares, A., **Coffman, D. L.**, & Hartmann, W. M. (2007). Asymptotically distribution-free interval estimation for coefficient alpha. *Psychological Methods*, *12*(2), 157-176.
- Maydeu-Olivares, A., & **Coffman, D. L.** (2006). Random intercept item factor analysis. *Psychological Methods*, *11*(4), 344-362.
- Coffman, D. L.**, & Millsap, R. E. (2006). Evaluating latent growth curve models using individual fit statistics. *Structural Equation Modeling*, *13*(1), 1-27.
- Cai, L., Maydeu-Olivares, A., **Coffman, D. L.**, & Thissen, D. (2006). Limited information goodness-of-fit testing in sparse  $2^p$  tables: A follow-up to Bartholomew and Leung's (2002) results. *The British Journal of Mathematical and Statistical Psychology*, *59*, 173-194.
- Coffman, D. L.**, & MacCallum, R. C. (2005). Using parcels to convert path analysis models into latent variable models. *Multivariate Behavioral Research*, *40*(2), 235-259.
- Coffman, D. L.**, & Gilligan, T. D. (2002). Social support, stress, and self-efficacy: Effects on students' satisfaction. *Journal of College Student Retention: Research, Theory, and Practice*, *4*(1), 53-65.

### **Journal Articles – under review**

- Atienza, A. A., Serrano, K. J., Riley, W., Moser, R., Spruijt-Metz, D., **Coffman, D. L.**, Curran, P. J., Rivera, D. E., Dunton, G., Rothman, A. J., Spring, B., Collins, L., Intille, S., Kobrin, S., Hekler, E., Jimison, H., Pavel, M., & Klein, W. (under revision). Advancing behavioral theories in the era of big data: Something blue, borrowed, & new.
- Coffman, D. L.**, Caldwell, L. L., & Smith, E. A. (under revision). A comparison of causal inference approaches for assessing mediation in the evaluation of a prevention program.

### **Book Chapters**

- Coffman, D. L.**, MacKinnon, D. P., \*Zhu, Y., & Ghosh, D. (in press). A comparison of potential outcomes approaches for assessing causal mediation. In H. He, P. Wu, & D.-G. Chen (Eds.), *Statistical Causal Inferences and Their Applications in Public Health Research*. Springer.

**Coffman, D. L.** (2015). Third variables: Scientific meanings and modeling in non-randomized studies. In S. J. Henley (Ed.), *Routledge International Handbook of Advanced Quantitative Methods in Nursing Research*. Abingdon, UK: Routledge/Taylor & Francis.

Graham, J. W., & **Coffman, D. L.** (2012). Structural equation modeling with missing data. In R. Hoyle (Ed.), *Handbook of Structural Equation Modeling*. New York, NY: Guilford.

### **Dissertation**

**Coffman, D. L.** (2006). Consequences of violating the parameter drift assumption in covariance structure models. *Dissertation Abstracts International: Section B: The Sciences and Engineering*, 67(1-B), 594.

### **Other Publications & Software**

Ghosh, D., \*Zhu, Y., & **Coffman, D. L.** (2013). *Penalized regression procedures for variable selection in the potential outcomes framework*. Technical Report. University Park, PA: Penn State University, Department of Statistics. Available at: [http://works.bepress.com/debashis\\_ghosh/59](http://works.bepress.com/debashis_ghosh/59)

Dziak, J. J., **Coffman, D. L.**, Lanza, S. T., & Li, R. (2012). *Sensitivity and specificity of information criteria*. (Technical Report # 12-119). University Park, PA: Pennsylvania State University, The Methodology Center.

**Coffman, D. L.**, Almirall, D., & \*Zhong, W. (2011). *Assessing mediation using marginal structural models in the presence of confounding and moderation*. (Technical Report # 11-112). University Park, PA: Pennsylvania State University, The Methodology Center.

**Coffman, D. L.**, \*Moore, J., & Lanza, S. T. (2011). *A practical guide for prevention scientists: Drawing causal inferences using propensity scores*. (Technical Report # 11-113). University Park, PA: Pennsylvania State University, The Methodology Center.

\*Schoemann, A. M., Preacher, K. J., & **Coffman, D. L.** (2010, April). *Plotting power curves for RMSEA* [software]. Available from <http://www.quantpsy.org/>.

Preacher, K. J., & **Coffman, D. L.** (2006, May). *Computing power and minimum sample size for RMSEA* [Software]. Available from <http://www.quantpsy.org/>.

## **INVITED LECTURES & WORKSHOPS**

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<b>Mediation Analysis Using R</b> Two-day workshop presented at Friedrich Alexander University of Erlangen – Nuremberg, Germany	July 2016
<b>Propensity Score Methods in Suicide Prevention Research</b> Presented at the National Institutes of Health Office of Disease Prevention Pathways to Prevention Workshop on Advancing Research to Prevent Youth Suicide	Mar. 2016
<b>Novel Methods to Identify Momentary Risk States for Stress &amp; Physical Inactivity</b> Presented at the Prevention Science Methodology Group	Dec. 2015
<b>Advances in and Applications of Causal Mediation Analysis Methods</b> Presented at the Department of Epidemiology & Biostatistics, Temple University, Philadelphia, PA	Dec. 2015
<b>Advances in and Applications of Causal Mediation Analysis Methods</b> Presented at the Department of Psychology, Rutgers University, Camden, NJ	Nov. 2015
<b>Advances in and Applications of Causal Mediation Analysis Methods</b> Presented at the Department of Psychology, Fordham University, New York, NY	Nov. 2015
<b>Identifying Effective Treatment and Health Services in Substance Abuse Research Using Observational Data</b>	Oct. 2015

Workshop presented at the Addiction Health Services Research conference, Marina del Rey, CA

- Estimating Causal Effects of Continuous Exposures*** Oct. 2015  
Presented at RAND Corporation, Santa Monica, CA
- Ethical Issues in Big Data Research*** Feb. 2015  
Presented at the Office of Research Protections Scholarship and Research Ethics Brown Bag Series, Penn State University, University Park, PA
- Advances in and Applications of Causal Mediation Analysis*** Feb. 2015  
Presented at the Department of Psychology, City University of New York-Brooklyn College, NY
- Machine Learning Methods to Estimate Propensity Scores in Causal Mediation Analysis*** Dec. 2014  
Presented at the Department of Statistics, Pennsylvania State University, University Park, PA
- Advances in and Applications of Causal Mediation Analysis*** Dec. 2014  
Presented at the Department of Psychology, Oklahoma State University, Stillwater, OK
- Advances in and Applications of Causal Mediation Analysis*** Nov. 2014  
Presented at the Department of Psychology, University of Nebraska, Lincoln, NE
- Advances in and Applications of Causal Mediation Analysis*** Nov. 2014  
Presented at the Department of Psychology, Utah State University, Logan, UT
- Machine Learning Methods to Estimate Propensity Scores in Causal Mediation Analysis*** Oct. 2014  
Presented at the School of Criminal Justice, Michigan State University, East Lansing, MI
- Propensity Score Methods for Causal Inference*** Jul. 2014  
Two-day workshop presented at Friedrich Alexander University of Erlangen – Nuremberg, Germany
- Machine Learning Methods for Estimating Propensity Scores and Other Advances in Causal Mediation*** May 2014  
Presented at the Department of Human Development and Family Studies, Penn State University, University Park, PA
- An Overview of Causal Inference Methods with Application to Studying Physical Activity*** Mar. 2014  
Presented at the Department of Kinesiology, Penn State University, University Park, PA
- Assessing Causal Mediation of the RRR Intervention on Sexual Risk Behavior Among Recently Released Female Prisoners*** Nov. 2013  
Presented at the National Institute on Drug Abuse Prevention Research Branch Seminar
- Big Data: Opportunities and Challenges*** Oct. 2013  
Presented at the National Cancer Institute Science of Research and Technology Branch Big D.A.T.A. (Data And Theory Advancement) Workshop, National Institutes of Health
- Comparison of Potential Outcome Approaches for Assessing Causal Mediation*** Oct. 2013  
Presented at the Prevention Science and Methodology Group
- Causal Inference*** Feb. 2013  
Guest lecture for graduate course on Childhood Obesity, Penn State University, University Park
- Methodology Workshop: Propensity Score Methods for Estimating Causality in the Absence of Random Assignment: Applications for Child Care Policy Research*** Oct. 2012  
Presented at the Annual Meeting of the Child Care Policy Research Consortium. Bethesda, MD
- Propensity Score Methods for Causal Inference*** Jun. 2012  
Two-day workshop presented for Methods Work, Chicago, IL
- Propensity Score Methods for Causal Inference*** Jun. 2012  
Two-day workshop presented for the Penn State Methodology Center Summer Institute on Innovative Methods



- Assessing Mediation Using Propensity Scores** Mar. 2012  
Guest lecture for graduate course on Mediation Analysis. Arizona State University, Tempe, AZ.
- Assessing Causal Mediation of the RRR Intervention on Sexual Risk Behavior Among Recently Released Female Prisoners** Dec. 2011  
Presented at the School of Social Work, Columbia University, New York, NY
- Do Mothers' Eating Behaviors Cause Daughters' Dieting? Drawing Causal Inferences from the Girls' Needs Study** Nov. 2011  
Presented at the Department of Nutritional Sciences, Penn State University, University Park, PA
- Propensity Score Methods** Nov. 2011  
Invited preconference workshop presented at the meeting of the American Society of Criminology, Washington, DC
- Causal Inference for Prevention Intervention Studies** Sept. 2009  
Invited talk presented at the meeting of the Methodology & Evaluation Group of the German Psychological Association, Bielefeld, Germany
- Practical Tools for Causal Inference in Prevention Studies** Sept. 2009  
Invited preconference workshop presented at the meeting of the Methodology & Evaluation group of the German Psychological Association, Bielefeld, Germany
- Mediation Analysis** Mar. 2008  
Invited guest lecture for advanced undergraduate course in physical activity interventions. Penn State University, University Park, PA
- Residual Diagnostics and Individual Fit Indices for Evaluating Latent Growth Curve Models** Mar. 2007  
Department of Psychology, Arizona State University, Tempe, AZ
- Individual Fit Indices for Evaluating Growth Curve Models** April 2006  
Department of Psychology, James Madison University, Harrisonburg, VA.
- Using Parcels in Structural Equation Models** Feb. 2006  
Invited guest lecture for graduate course in structural equation modeling. Penn State University, University Park, PA
- Sample Size and Power Estimation** Nov. 2004  
Invited guest lecture for graduate research methods course. University of North Carolina, Chapel Hill, NC  
Nov. 2005

## CONFERENCE PRESENTATIONS

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- Coffman, D. L., Leonard, N., Fletcher, R., Cleland, C., Gwadz, M. (2016, Oct.).** *A pipeline for processing and modeling electrodermal activity data collected in an ambulatory setting.* Paper to be presented at the Wireless Health Conference, Bethesda, MD.
- Coffman, D. L. (2016, Sept.).** *Modeling electrodermal activity data collected in an ambulatory setting.* Paper to be presented at the Developmental Methods conference, Whitefish, MT.
- Leonard, N., **Coffman, D. L., Fletcher, R., Gwadz, M. (2016, Apr.).** *Usage and acceptance of an mHealth technology for enhancing a provider-delivered parenting intervention.* Poster presented at the 37<sup>th</sup> annual meeting of the Society of Behavioral Medicine, Washington, DC.
- Coffman, D. L., Leonard, N., Cleland, C., Gwadz, M., & Fletcher, R. (2015, Nov.).** *Analysis of electrodermal activity collected via a biosensor.* Poster presented at the Big Data to Knowledge All Hands Grantee Meeting, National Institutes of Health, Bethesda, MD.

- Schuler, M., Chu, W., & **Coffman, D. L.** (2015, Oct.). *Propensity score weighting methods for a continuous treatment in a multilevel data setting*. Paper presented at the 11<sup>th</sup> International Conference on Health Policy Statistics, Providence, RI.
- Coffman, D. L.**, & Zhou, J. (2015, Aug.). *Comparison of approaches for handling missingness in covariates for propensity score models*. Paper presented at the Joint Statistical Meetings, Seattle, WA.
- Coffman, D. L.**, Leonard, N., Fletcher, R., Cleland, C., Salaam, R., & Gwadz, M. (2015, Jun.). *Functional data analysis of electrodermal activity collected via a biosensor*. Paper presented at the 4<sup>th</sup> biennial meeting of the Society of Ambulatory Assessment, State College, PA.
- Coffman, D. L.**, Leonard, N., Gwadz, M., Cleland, C., & Fletcher, R. (2015, Jun.). *Electrodermal activity collected via a biosensor*. Poster presented at the BD2K Workshop on Causal Discovery with Biomedical Data, Pittsburgh, PA.
- Coffman, D. L.**, Schuler, M., & Chu, W. (2015, May). *Propensity score methods for assessing causal mediation in cluster-randomized substance use prevention interventions*. Paper presented at the 23<sup>rd</sup> Annual Meeting of the Society for Prevention Research, Washington, DC.
- Bray, B. C., Lanza, S. T., & **Coffman, D. L.** (2015, May). *Estimating causal effects with latent class variables: Exposures and outcomes*. Paper presented at the 23<sup>rd</sup> Annual Meeting of the Society for Prevention Research, Washington, DC.
- Henneberger, A. K., Zheng, Y., & **Coffman, D. L.** (2015, Mar.). *Alcohol use as a mechanism for criminal justice involvement from adolescence into adulthood: Strengthening causal interpretations*. Paper presented at the biennial meeting of the Society for Research in Child Development, Philadelphia, PA.
- Henneberger, A. K., Gest, S. D., & **Coffman, D. L.** (2014, May). *Peer socialization of aggressive behavior in elementary school: Using propensity scores to strengthen causal inference*. In A. K. Henneberger (Chair), *Preventing risky behavior across development: Applying innovative longitudinal methods to strengthen prevention science*. Panel discussion at the 22<sup>nd</sup> annual meeting of the Society for Prevention Research, Washington, DC.
- Conroy, D. E., **Coffman, D. L.**, Pincus, A. L., & Ram, N. (2014, Apr.). *Daily physical activity and alcohol use in a lifespan sample of community-dwelling adults*. Poster presented at the 35<sup>th</sup> annual meeting of the Society of Behavioral Medicine, Philadelphia, PA.
- Coffman, D. L.**, Savage-Williams, J., & Birch, L. (2014, Apr.). *Using propensity methods to assess causal effects of mothers' dieting behavior on daughters' early dieting behavior*. Paper presented at the 35<sup>th</sup> annual meeting of the Society of Behavioral Medicine, Philadelphia, PA.
- Henneberger, A. K., **Coffman, D. L.**, & Gest, S. D. (2014, Mar.). *The causal effect of peer socialization on prosocial behavior in early adolescence*. Poster presented at the 2014 Society of Research on Adolescence Biennial Meeting, Austin, TX.
- Henneberger, A. K., Gest, S. D., & **Coffman, D. L.** (2014, Mar.). *Peer influence on aggressive behavior in early adolescence: Strengthening causal inference*. Paper presented at the 2014 Society of Research on Adolescence Biennial Meeting, Austin, TX.
- Scalco, M., Trucco, E., **Coffman, D. L.**, & Colder, C. (2014, Mar.). *Selection and socialization effects in early adolescent alcohol use: A propensity score analysis*. Paper presented at the 2014 Society of Research on Adolescence Biennial Meeting, Austin, TX.

- Coffman, D. L.**, Bray, B. C., Lanza, S. T., & Dziak, J. J. (2013, Oct.). *Estimating causal effects of latent treatments on categorical and count outcomes*. Paper presented at the 10<sup>th</sup> International Conference on Health Policy Statistics, Chicago, IL.
- Bray, B. C., Lanza, S. T., & **Coffman, D. L.** (2013, Oct.). *The causal effect of substance use latent class membership on a distal outcome*. Paper presented at the 10<sup>th</sup> International Conference on Health Policy Statistics, Chicago, IL.
- Ghosh, D., Zhu, Y., & **Coffman, D. L.** (2013, Aug.). *Penalized regression procedures for variable selection in the potential outcomes framework*. Paper presented at the Joint Statistical Meetings, Montreal, CA.
- Zhu, Y., **Coffman, D. L.**, & Ghosh, D. (2013, Aug.). *A data-adaptive approach to modeling propensity scores for continuous treatments*. Paper presented at the Joint Statistical Meetings, Montreal, CA.
- Kugler, K. C., Butera, N. M., Vasilenko, S., & **Coffman, D. L.** (2013, May). *Long-term consequences of early sexual initiation: A causal inference approach*. Paper presented at the 21<sup>st</sup> Annual Meeting of the Society for Prevention Research, San Francisco, CA.
- Zheng, Y., & **Coffman, D. L.** (2013, May). *Causal inference of adolescent antisocial behavior and young adult alcohol use on adult criminal justice involvement*. Poster presented at the 21<sup>st</sup> Annual Meeting of the Society for Prevention Research, San Francisco, CA.
- Lanza, S. T., Bray, B. C., & **Coffman, D. L.** (2013, May). *Causal impact of latent substance use behavior profiles on health outcomes*. Paper presented at 21<sup>st</sup> Annual Meeting of the Society for Prevention Research, San Francisco, CA.
- Coffman, D. L.**, Bray, B. C., Lanza, S. T., & Dziak, J. J. (2013, May). *Estimating the causal effect of a latent class treatment on binary and count outcomes*. Paper presented at the 21<sup>st</sup> Annual Meeting of the Society for Prevention Research, San Francisco, CA.
- Coffman, D. L.**, Zhu, Y., & Ghosh, D. (2013, May). *Propensity score estimation for continuous treatments using generalized boosted models*. Poster presented at the Atlantic Causal Inference Conference, Cambridge, MA.
- Hsiao, P.-Y., **Coffman, D. L.**, Wood, G. C., Mitchell, D. C., Still, C. D., Jensen, G. L., & Hartman, T. J. (2013, April). *Dietary patterns (DP) and weight change in older adults  $\geq 75$  years old: What's the relationship?* Presented at Experimental Biology, Boston, MA.
- Wheeler, D., Jensen, G., Mitchell, D., Bailey, R., Smiciklas-Wright, H., Erickson, P., Wood, C., Still, C., **Coffman, D. L.**, Hartman, T. (2013, April). *The association between diet quality and the Health and Activity Limitation Index (HALex) in the Geisinger Rural Aging Study (GRAS)*. Presented at Experimental Biology, Boston, MA.
- Solmeyer, A. R., Feinberg, M. E., **Coffman, D. L.**, & Jones, D. E. (2013, Mar.). *Effects of Family Foundations on coparenting and child adjustment: A mediation analysis*. Paper symposia presented at the 2013 Biennial Meeting of the Society for Research in Child Development, Seattle, WA.
- Zhu, Y., Ghosh, D., & **Coffman, D. L.** (2013, Mar.). *Improving Mediation Analysis Based on Propensity Scores*. Presented at the Eastern North American Region of the International Biometric Society, Orlando, FL.
- Coffman, D. L.**, MacKinnon, D. P., Zhu, Y., & Ghosh, D. (2013, Jan.). *Comparison of three approaches to causal mediation analysis*. Presented at the Causal Mediation Analysis Symposium, Ghent, Belgium.
- Hsiao, P.-Y., Mitchell, D. C., Wood, G. C., **Coffman, D. L.**, Wheeler, D., Hartman, T. J., Still, C., Jensen, G. L. (2012, Oct.). *Association between dietary patterns in older adults and obesity-related health outcomes*. Presented at the Food & Nutrition Expo, Philadelphia, PA.
- Wheeler, D., Jensen, G. L., Mitchell, D. C., Hsiao, P.-Y., Bailey, R., Smiciklas-Wright, H., **Coffman, D. L.**, Still, C., Hartman, T. J. (2012, Oct.). *Poor diet quality is associated with being underweight among older adults*. Presented at the Food & Nutrition Expo, Philadelphia, PA.
- Zhu, Y., Ghosh, D., & **Coffman, D.** (2012, Aug.). *Mediation analysis based on propensity scores*. Presented at the Joint Statistical Meetings, San Diego, CA.

- Lippold, M., **Coffman, D. L.**, & Greenberg, M. (2012, June). *Parental knowledge and youth risky behavior: Using propensity models to estimate causality*. Poster presented at the 20<sup>th</sup> Annual Meeting of the Society for Prevention Research, Washington, DC.
- Crowley, D. M., Jones, D., Greenberg, M., & **Coffman, D. L.** (2012, June). *Evaluating the cost-effectiveness of real-world prevention efforts: Approaches for estimating the value of evidence-based programming*. Presented at the 20<sup>th</sup> Annual Meeting of the Society for Prevention Research, Washington, DC.
- Coffman, D. L.**, Savage-Williams, J., Xu, S., Lanza, S. T., & Birch, L. (2012, June). *Do mothers' eating behaviors cause daughters' dieting? Drawing causal inferences from the Girls' Needs study*. Presented at the 20<sup>th</sup> Annual Meeting of the Society for Prevention Research, Washington, DC.
- Coffman, D. L.**, MacKinnon, D. P., Zhu, Y., & Ghosh, D. (2012, June). *Comparison of three approaches to causal mediation analysis*. Poster presented at the 20<sup>th</sup> Annual Meeting of the Society for Prevention Research, Washington, DC.
- Xu, S., **Coffman, D. L.**, Caldwell, L. L., & Smith, E. A. (2012, June). *HealthWise South Africa: A comparison of new causal inference approaches for assessing mediation in prevention science*. Poster presented at the 20<sup>th</sup> Annual Meeting of the Society for Prevention Research, Washington, DC.
- Butera, N., Lanza, S. T., & **Coffman, D. L.** (2012, June). *Effect of early sexual debut on adolescent delinquency latent class membership*. Poster presented at the 20<sup>th</sup> Annual Meeting of the Society for Prevention Research, Washington, DC.
- Zhu, Y., **Coffman, D. L.**, MacKinnon, D. P., & Ghosh, D. (2012, May). *Comparison of three approaches to causal mediation analysis*. Poster presented at the 2012 Atlantic Causal Inference Conference, Baltimore, MD.
- Xu, S., Blozis, S. A., & **Coffman, D. L.** (2012, May). *Modeling longitudinal continuous variables with many zeros*. Presented at the Modern Modeling Methods Conference, Storrs, CT.
- Compton, S. N., & **Coffman, D. L.** (2012, Feb.). *Novel approaches to causal mediation in the context of clinical trials*. Presented at the Society for Research in Child Development Methodology Themed conference, Tampa, FL.
- Lippold, M., **Coffman, D. L.**, & Greenberg, M. (2012, Feb.). *Investigating the causal relationship between parental knowledge and youth risky behavior*. Presented at the Society for Research in Child Development Methodology Themed conference, Tampa, FL.
- Coffman, D. L.**, Powers, C. J., & Bierman, K. (2012, Feb.). *Causal mediation of inattention and aggression on substance use outcomes in the Fast Track data*. Presented at the Society for Research in Child Development Methodology Themed conference, Tampa, FL.
- Coffman, D. L.**, Melde, C., & Esbensen, F.-A. (2011, Nov.). *Assessing the mediating role of anticipated guilt on the relationship between gang membership and substance use in the presence of confounding and moderation*. Presented at the annual meeting of the American Society of Criminology, Washington, DC.
- Coffman, D. L.**, Zhong, W., & Almirall, D. (2011, June). *Causal mediation in the presence of post-treatment confounders, baseline moderators, and non-randomized treatments*. Poster presented at the 19<sup>th</sup> Annual Meeting of the Society for Prevention Research, Washington, DC.
- Dziak, J. J., **Coffman, D. L.**, Lanza, S. T., & Li, R. (2011, June). *Sensitivity and specificity of information criteria*. Poster presented at the 19<sup>th</sup> Annual Meeting of the Society for Prevention Research, Washington, DC.
- Xu, S., Blozis, S. A., & **Coffman, D. L.** (2011, June). *Alternative models for longitudinal variables with many zeros*. Poster presented at the 19<sup>th</sup> Annual Meeting of the Society for Prevention Research, Washington, DC.
- Powers, C. J., **Coffman, D. L.**, & Bierman, K. (2011, June). *Aggressive disruptive students in restricted educational placements: Moderated influence of placement history on adolescent outcomes*. Poster presented at the 19<sup>th</sup> Annual Meeting of the Society for Prevention Research, Washington, DC.
- Lanza, S. T., **Coffman, D. L.**, Xu, S., & Almirall, D. (2011, June). *Causal inference in latent class analysis*. Presented at the 19<sup>th</sup> Annual Meeting of the Society for Prevention Research, Washington, DC.

- Valdes-Kroff, J., Dussias, P., Gerfen, C., Guzzardo-Tamargo, R., **Coffman, D. L.**, & Gullifer, J. (2011, June). *Costly integration of code-switched utterances: When code-switching becomes a language switching task*. Presented at the International Symposium on Bilingualism, Oslo, Norway.
- Coffman, D. L.**, & Almirall, D. (2011, May). *Causal mediation in the presence of post-treatment confounders, baseline moderators, and non-randomized treatments*. Presented at the Modern Modeling Methods Conference, Storrs, CT.
- Coffman, D. L.**, Zhong, W., & Almirall, D. (2011, May). *Assessing mediation using marginal structural models in the presence of confounding and moderation*. Poster presented at the 2011 Atlantic Causal Inference Conference, Ann Arbor, MI.
- Valdes-Kroff, J., Dussias, P., Gerfen, C., Guzzardo-Tamargo, R., Gullifer, J., & **Coffman, D. L.** (2011, May). *Using experimental methods to investigate Spanish-English code-switching: Eye-tracking as a window*. Presented at the Linguistics Symposium on Romance Languages 41, Ottawa, Canada.
- Hsiao, P.-Y., Mitchell, D. C., Hartman, T. J., Jensen, G. L., **Coffman, D. L.**, Still, C. D., Allman, R. M., & Sawyer, P. (2011, April). *Characterizing dietary patterns in older adults using a novel approach*. Poster presented at Experimental Biology, Washington, DC. (Finalist for Nutrition Epidemiology Research Interest Section Student Poster Competition)
- Powers, C. J., **Coffman, D. L.**, & Bierman, K. (2011, April). *The impact of patterns of self contained placement on mental health outcomes: Application of structural nested mean models with time-varying moderators*. Paper symposia presented at the 2011 Biennial Meeting of the Society for Research in Child Development, Montreal, Canada.
- Crowley, D., **Coffman, D. L.**, & Feinberg, M. (2011, April). *Evaluating the role of participant attendance on program impact: Application of the potential outcomes framework to mediation analysis of prevention programs*. Paper symposia presented at the 2011 Biennial Meeting of the Society for Research in Child Development, Montreal, Canada.
- Moore, J. E., **Coffman, D. L.**, & Lanza, S. T. (2011, April). *Drawing causal inferences using propensity scores*. Paper symposia presented at the 2011 Biennial Meeting of the Society for Research in Child Development, Montreal, Canada.
- Hsiao, P.-Y., Mitchell, D. C., Hartman, T. J., Jensen, G. L., **Coffman, D. L.**, Still, C. D., Allman, R. M., & Sawyer, P. (2011, March). *Characterizing dietary patterns in older adults using a novel approach*. Poster presented at The Pennsylvania State University Graduate Exhibition, University Park, PA. (First place award for Health and Life Sciences category)
- Valdes-Kroff, J., Dussias, P., Gerfen, C., **Coffman, D. L.**, Guzzardo-Tamargo, R., & Gullifer, J. (2011, March). *Dynamic changes in the real time processing of grammatical gender in Spanish-English bilinguals*. Poster presented at the CUNY conference, New York, NY.
- Coffman, D. L.** (2010, June). *Causal inference for mediation analysis with propensity scores*. Poster presented at the 18<sup>th</sup> Annual Meeting of the Society for Prevention Research, Denver, CO.
- Soli, A., Feinberg, M. E., Jones, D. E., & **Coffman, D. L.** (2010, June). *The effects of family foundations on coparenting and child adjustment: A mediation analysis*. Poster presented at the 18<sup>th</sup> Annual Meeting of the Society for Prevention Research, Denver, CO.
- Hsiao, P.-Y., Mitchell, D. C., Hartman, T. J., Jensen, G. L., **Coffman, D. L.**, Still, C. D., Allman, R. M., & Sawyer, P. (2010, April). *A comparison of nutrient intakes in rural/urban older adults with regional and racial differences*. Poster presented at Experimental Biology, Anaheim, CA.
- Valdes-Kroff, J., **Coffman, D. L.**, Dussias, P., Gerfen, C., Gullifer, J., & Guzzardo-Tamargo, R. (2010, March). *Differential processing of grammatical gender in a sentential context: Eye-tracking evidence from Spanish monolinguals and Spanish-English bilinguals*. Poster presented at the CUNY conference, New York, NY.
- Coffman, D. L.**, & Schafer, J. L. (2009, May). *At-risk causal effects in prevention research*. Presented at the 17<sup>th</sup> Annual Meeting of the Society for Prevention Research, Washington, DC.

- Younker, A. S., Caldwell, L. L., **Coffman, D. L.**, & Smith, E. A. (2008, Oct.). *Factorial invariance of the free time motivation scale for adolescents*. Presented at the annual meeting of the National Recreation and Park Association, Baltimore, MD.
- Coffman, D. L.**, & Blozis, S. A. (2008, June). *Residual diagnostics for evaluating latent growth curve models*. Presented at the 73<sup>rd</sup> Annual Meeting of the Psychometric Society, Durham, NH.
- Coffman, D. L.**, Smith, E. A., & Caldwell, L. L. (2008, May). *The effects of the HealthWise intervention on condom use knowledge*. Presented at the 16<sup>th</sup> Annual Meeting of the Society for Prevention Research, San Francisco, CA.
- Sharp, E., **Coffman, D. L.**, & Caldwell, L. L. (2008, March). *Free time experiences and the transition into and out of substance use during adolescence*. Presented at the 2008 Biennial Meeting of the Society for Research on Adolescence, Chicago, IL.
- Coffman, D. L.**, Smith, E. A., & Caldwell, L. L. (2007, Aug.). *Examining prevention intervention effects on smoking trajectories using individual fit indices for growth curve models*. Poster presented at the 115<sup>th</sup> Annual Convention of the American Psychological Association, San Francisco, CA.
- Coffman, D. L.**, & Blozis, S. A. (2007, Aug.). *Evaluating individual fit in nonlinear growth curve models*. Poster presented at the 115<sup>th</sup> Annual Convention of the American Psychological Association, San Francisco, CA.
- Coffman, D. L.**, & BeLue, R. (2007, May). *Using item response theory to detect differential item functioning in health disparities research*. Poster presented at the 15<sup>th</sup> Annual Meeting of the Society for Prevention Research, Washington, DC.
- Coffman, D. L.** (2006, July). *Robustness of the CFI, RNI, and RMSEA point estimates and confidence intervals in covariance structure models*. Presented at the 25<sup>th</sup> Biennial Meeting of the Society for Multivariate Analysis in the Behavioural Sciences, Budapest, Hungary.
- Coffman, D. L.** (2006, June). *Consequences of violating the parameter drift assumption in covariance structure models on power analysis procedures and Type I error rates for the test of close fit*. Presented at the 71<sup>st</sup> Annual Meeting of the Psychometric Society, Montreal, Canada.
- Coffman, D. L.**, Palen, L., Patrick, M., Rhoades, B., & Ventura, A. (2006, May). *Why do high school seniors drink? Implications for a targeted approach*. Presented at the 14<sup>th</sup> Annual Meeting of the Society for Prevention Research, San Antonio, TX.
- Coffman, D. L.** (2006, April). *Evaluating fit in structural equation models: Effects of model error*. Poster presented at the National Institute on Drug Abuse Research Training Institute, Bethesda, MD.
- Maydeu-Olivares, A., **Coffman, D. L.**, & Hartmann, W. M. (2005, Oct.). *An asymptotically distribution free (ADF) interval estimator for coefficient alpha*. Presented at the Society of Multivariate Experimental Psychology, Lake Tahoe, CA.
- Coffman, D. L.**, & Millsap, R. E. (2005, August). *Evaluating latent growth curve models using individual fit statistics*. Poster presented at the 113<sup>th</sup> Annual Convention of the American Psychological Association, Washington, D.C.
- Coffman, D. L.**, & Maydeu-Olivares, A. (2005, July). *Asymptotically distribution-free interval estimation for coefficient alpha*. Presented at the 70<sup>th</sup> Annual Meeting of the Psychometric Society, Tilburg, The Netherlands.
- Coffman, D. L.**, & MacCallum, R. C. (2003, August). *Converting path analysis models into latent variable models using parcels*. Poster presented at the 111<sup>th</sup> Annual Convention of the American Psychological Association, Toronto, Canada.
- Coffman, D. L.**, & Reifsteck, J. B. (2001, April). *Psychometric properties of the Students' Life Satisfaction Scale*. Poster presented at the 71<sup>st</sup> Annual Meeting of the Eastern Psychological Association, Washington, D.C.
- Coffman, D. L.**, & Gilligan, T. D. (2000, April). *The relationship of social support, self-efficacy, and stress with life satisfaction among first year college students*. Poster presented at the 70<sup>th</sup> Annual Meeting of the Eastern Psychological Association, Baltimore, MD.

**Coffman, D. L.** (1999, April). *The relationship of stress, social support, and self-efficacy with life satisfaction among freshman college students*. Poster presented at the 13<sup>th</sup> Annual National Conference of Undergraduate Research, Rochester, NY.

Kitsantas, A., **Coffman, D. L.**, Gallipoli, N., Rice, S., & Valaitis, J. (1998, August). *The effect of self-regulated strategies and self-efficacy perceptions on weight management*. Presented at the 12<sup>th</sup> Conference of the European Health Psychology Society, Vienna, Austria.

## TEACHING EXPERIENCE

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<b>Research Assistant Professor</b> , The Pennsylvania State University, University Park, PA	
Causal Inference in the Behavioral Sciences I (Graduate)	2012
Causal Inference in the Behavioral Sciences II (Graduate)	2012
<b>Research Associate</b> , The Pennsylvania State University, University Park, PA	
Causal Inference in the Social Sciences (Graduate)	2010
Mediation Analysis in the Social Sciences (Graduate)	2008
<b>Teaching Fellow</b> , The University of North Carolina, Chapel Hill, NC	
Primary Instructor, Psychological Statistics (Undergraduate)	2004-2005
<b>Teaching Assistant</b> , The University of North Carolina, Chapel Hill, NC	
Factor Analysis (Graduate)	2004
Psychological Statistics (Undergraduate)	2003
<b>Teaching Assistant</b> , The Ohio State University, Columbus, OH	
Psychological Statistics (Undergraduate)	2002
<b>Teaching Assistant</b> , James Madison University, Harrisonburg, VA	
Psychological Statistics (Undergraduate)	2000
Experimental Psychology (Undergraduate)	2000-2001
Measurement Theory (Graduate)	2001
Research and Inferential Statistics (Graduate)	2001

## RESEARCH EXPERIENCE

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<b>Research Assistant</b>	2003
Department of Psychology, The University of North Carolina, Chapel Hill NC	
<b>Research Assistant</b>	2001-2002
Department of Psychology, The Ohio State University, Columbus OH	
<b>Graduate Assistant</b>	1999-2000
Center for Assessment and Research Studies, James Madison University, Harrisonburg, VA	

## STATISTICAL CONSULTING

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United Mine Workers Association Health and Retirement Funds, Washington DC	2015
Department of Psychology, Wesleyan University, Middletown, CT	2013
Department of Psychology, University of Buffalo, Buffalo, NY	2013, 2016
Department of Psychology, Rutgers University, New Brunswick, NJ	2007

Center for Child and Family Policy, Duke University, Durham NC	2005
Fuqua Business School, Duke University, Durham NC	2005
Department of Psychology, The University of North Carolina, Chapel Hill NC	2004-2005

## HONORS AND AWARDS

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Society for Prevention Research Early Career Award	2014
National Institutes of Health (NIH) Loan Repayment Program. Continuation contract for one year.	2012
National Institutes of Health (NIH) Loan Repayment Program. Continuation contract for one year.	2011
National Institutes of Health (NIH) Loan Repayment Program. Continuation contract for one year.	2010
National Institutes of Health (NIH) Loan Repayment Program. Initial contract for two years.	2008
Society for Prevention Research (\$250); Travel scholarship awarded to present research at the 16 <sup>th</sup> Society for Prevention Research Annual Meeting, San Francisco, CA.	2008
National Institute on Drug Abuse (\$750); Travel award to present research at the 115 <sup>th</sup> Annual Convention of the American Psychological Association, San Francisco, CA.	2007
Society for Prevention Research (\$400); Travel scholarship awarded to present research at the 15 <sup>th</sup> Society for Prevention Research Annual Meeting, Washington, DC.	2007
National Institute on Drug Abuse (\$500); Travel award to attend Research Training Institute, Bethesda, MD.	2006
University of North Carolina Graduate School (\$700); Travel grant awarded to present research at the 14 <sup>th</sup> International Meeting of the Psychometric Society, Tilburg, The Netherlands.	2005
Spanish Ministry of Science and Technology Grant BSO2003-08507 (awarded to Albert Maydeu-Olivares); €318 (approx. \$383) travel stipend to present research at the 14 <sup>th</sup> International Meeting of the Psychometric Society, Tilburg, The Netherlands.	2005
Educational Testing Service/ Psychometric Society (\$500); Travel grant awarded to present research at the 70 <sup>th</sup> Annual Meeting of the Psychometric Society, Tilburg, The Netherlands.	2005
L. L. Thurstone Psychometric Laboratory (\$350); Travel grant awarded to present research at the 113 <sup>th</sup> Annual Convention of the American Psychological Association, Washington, D.C.	2005
Spanish Ministry of Science and Technology Grant BSO2003-08507 (awarded to Albert Maydeu-Olivares); €700 (approx. \$980) stipend to travel to the University of Barcelona to conduct research.	2004
American Psychological Association (\$300); Travel grant awarded to present research at the 111 <sup>th</sup> Annual Convention of the American Psychological Association, Toronto, ON.	2003
James Madison University Outstanding Graduate Student Research Award	2001
James Madison University Department of Psychology (\$50); Master's Thesis Research.	2000
James Madison University Office of Sponsored Programs (\$100); Honors Thesis Research.	1998

## PROFESSIONAL AFFILIATIONS

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American Statistical Association



American Psychological Association  
 American Public Health Association  
 Society for Prevention Research  
 Society of Behavioral Medicine

## COMPUTER SKILLS

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### **Scientific Programming Languages**

MATLAB/Octave  
 Mathematica  
 Fortran  
 R  
 SAS/IML  
 Python

### **Latent Variable Statistical Software**

Mx  
 Mplus  
 LatentGOLD  
 Tetrad  
 LISREL  
 AMOS  
 RAMONA  
 CEFA

### **Data Visualization**

SIGMAPLOT

### **Database**

SQL

### **General Statistical Software**

MS Excel  
 SPSS  
 SAS  
 STATA  
 SYSTAT  
 SPlus

### **Specialized Statistical Software**

MLwiN  
 SuperMix  
 Optimal Design  
 MULTOLOG  
 TESTFACT  
 G\*power

### **Document Preparation**

LaTeX  
 MathType  
 MS Word  
 MS Visio  
 MS Powerpoint  
 EndNote

## PROFESSIONAL SERVICE: REVIEWER

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Translational Behavioral Medicine journal editorial board	2016
Nursing Research journal editorial board	2015-2016
National Institutes of Health ad hoc grant reviewer	2016
National Science Foundation Methodology, Measurement, and Statistics ad hoc grant reviewer	2015
Patient-Centered Outcomes Research Institute (PCORI) ad hoc grant reviewer	2014
Penn State Postdoctoral Exhibition	2013
Penn State Graduate Exhibition	2012
American Psychological Association Division 5 conference proposals	2012
Society for Prevention Research conference proposals	2008-2010, 2012
Society of Multivariate Experimental Psychology student conference proposals	2003-2004

Virginia Junior Science and Humanities Symposium

2001

**Ad hoc reviewer for the following journals:**

<i>Addiction</i>	2014
<i>Annals of Epidemiology</i>	2016
<i>Behavior Research Methods</i>	2012
<i>British Journal of Mathematical and Statistical Psychology</i>	2012, 2013, 2016
<i>Communications in Statistics: Simulation and Computation</i>	2013, 2014
<i>Developmental Psychology</i>	2007 - 2009
<i>Educational and Psychological Measurement</i>	2010
<i>Emerging Adulthood</i>	2014, 2015
<i>Evaluation and Program Planning</i>	2015, 2016
<i>Evaluation Review</i>	2013
<i>Health Education Research</i>	2013
<i>Health Services &amp; Outcomes Research Methodology</i>	2014
<i>Journal of Adolescence</i>	2009
<i>Journal of Causal Inference</i>	2013
<i>Journal of Consulting and Clinical Psychology</i>	2011 - 2014
<i>Journal of Educational and Behavioral Statistics</i>	2014, 2015
<i>Journal of Educational Psychology</i>	2015
<i>Journal of Marriage and the Family</i>	2013
<i>Journal of the Royal Statistical Society Series B</i>	2013
<i>Journal of Traumatic Stress</i>	2010, 2016
<i>Methodology</i>	2008
<i>Multivariate Behavioral Research</i>	2006, 2010
<i>Nicotine and Tobacco Research</i>	2012, 2013
<i>Nursing Research</i>	2013 - 2014
<i>PLOS ONE</i>	2015
<i>Prevention Science</i>	2008 - 2015
<i>Psychological Methods</i>	2006 - 2009, 2011, 2013
<i>Psychology of Addictive Behaviors</i>	2016
<i>Psychometrika</i>	2009, 2015
<i>Research in Human Development</i>	2008, 2009
<i>Scandinavian Journal of Statistics</i>	2012
<i>Social Behavior and Personality</i>	2014
<i>Statistica Neerlandica</i>	2007, 2008
<i>Structural Equation Modeling</i>	2006, 2008, 2012, 2013

**PROFESSIONAL SERVICE: OTHER**


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National Institutes of Health Pathways to Prevention Obesity Advisory Board	2016
Prevention and Methodology Training pre-doctoral admissions committee, Penn State	2011-2014
Methodology Center one-credit course coordinator, Penn State	2010-2014
Methodology Center brownbag coordinator, Penn State	2009-2014
Research Faculty Promotion Committee, College of Health & Human Development, Penn State	2014
Special Education/Innovative Methods Faculty Search Committee, College of Education, Penn State	2013
Student member, local planning committee for conference: Factor Analysis at 100, University of North Carolina Chapel Hill	2004
Student member, Master of Arts in Psychological Sciences Program Committee, James Madison	2000-2001

University

## MENTORING

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### **Graduate Students - Temple**

Andy Pool (Social & Behavioral Sciences)	Dissertation Committee Member	2016-
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### **Graduate Students - Penn State**

Christian Thoroughgood (I/O Psychology)	Comprehensive Exam Committee Member	2010
	Dissertation Committee Member	2011-2013
Pao-Ying Hsiao (Nutrition)	Comprehensive Exam Committee Member	2010
	Dissertation Committee Member	2011-2012
Stephanie Bradley (HDFS)	Prevention & Methodology Training Mentor	2010-2011
Julia Moore (HDFS)	Research Assistant – Summer	2010
D. Max Crowley (HDFS)	Dissertation Committee Member	2011-2012
	Teaching Assistant	2012
CJ Powers (Clinical Psychology)	Research Assistant	2010-2011
	Dissertation Committee Member	2011-2012
Yeying Zhu (Statistics)	Comprehensive Exam Committee Member	2011
	Dissertation Committee Member	2011-2013
	Research Assistant	2011-2013
	Teaching Assistant	2012
Jessica Lindgren Jones (Nutrition)	Comprehensive Exam Committee Member	2012
	Dissertation Committee Member	2012-2013
Jessica Trail (Statistics)	Comprehensive Exam Committee Member	2012
	Dissertation Committee Member	2012-2014
Jacqueline Cox Miller (HDFS)	Comprehensive Exam Committee Member	2012-2013
	Prevention and Methodology Training Mentor	2012-2014
	Dissertation Committee Member	2014-2015
Jiangxiu Zhou (BBH)	Prevention & Methodology Training Mentor	2013-2014
	Comprehensive Exam Committee Member	2014
	Dissertation Committee Co-Chair	2014-2015
Phylcia Bediako (Health Policy & Admin.)	Prevention & Methodology Training Mentor	2013-2015
Xiaoyu Liu (Statistics)	Research Assistant	2013-2014
Jonathan Reader (HDFS)	Master's Thesis Committee Member	2013-2014
Wanghuan Chu (Statistics)	Big Data Social Science IGERT advisor	2013-2015
	IGERT Research Rotation advisor	2013-2014
	Comprehensive Exam Committee Member	2015
	Dissertation Committee Member	2015-2016
Rebecca Madill (HDFS)	Dissertation Committee Member	2014
Tomorrow Wilson (BBH)	Prevention & Methodology Mentor	2014

Moe Kishida (Kinesiology)	Independent Research Study	2014
Yaqun Wang (Statistics)	Dissertation Committee Member	2015

***Postdoctoral Researchers - Temple***

Xizhen Cai		2016-
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***Postdoctoral Researchers - Penn State***

Megan Schuler	Current position: Marshall J. Seidman Fellow in Health Care Policy, Harvard Medical School	2014-2015
Angela Henneberger	Current position: Research Assistant Professor, University of Maryland	2013-2014
Shu (Violet) Xu	Current position: Assistant Research Scientist, New York University	2010-2012