

Bibliography to accompany:

Preacher, K. J. (in press). Advances in mediation analysis: A survey and synthesis of new developments. *Annual Review of Psychology*.

Mediation in multilevel designs

Bauer, D. J., Preacher, K. J., & Gil, K. M. (2006). Conceptualizing and testing random indirect effects and moderated mediation in multilevel models: New procedures and recommendations. *Psychological Methods, 11*, 142-163.

Blood, E. A., & Cheng, D. M. (2012). Non-linear mixed models in the analysis of mediated longitudinal data with binary outcomes. *BMC Medical Research Methodology, 12*, 1-10.

Bolger, N., & Schilling, E. A. (1991). Personality and problems of everyday life: The role of neuroticism in exposure and reactivity to daily stressors. *Journal of Personality, 59*, 356-386.

Card, N. A. (2012). Multilevel mediational analysis in the study of daily lives. In M. R. Mehl & T. S. Conner (Eds.), *Handbook of research methods for studying daily life* (pp. 479-494). New York, NY: The Guilford Press.

Kenny, D. A., Kashy, D. A., & Bolger, N. (1998). Data analysis in social psychology. In D. Gilbert, S. T. Fiske, & G. Lindzey (Eds.), *The handbook of social psychology* (4th ed., Vol. 1, pp. 223-265). New York: McGraw-Hill.

Kenny, D. A., Korchmaros, J. D., & Bolger, N. (2003). Lower level mediation in multilevel models. *Psychological Methods, 8*, 115-128.

Krull, J. L., & MacKinnon, D. P. (1999). Multilevel mediation modeling in group-based intervention studies. *Evaluation Review, 23*, 418-444.

Krull, J. L., & MacKinnon, D. P. (2001). Multilevel modeling of individual and group level mediated effects. *Multivariate Behavioral Research, 36*, 249-277.

Lachowicz, M. J., Sterba, S. K., & Preacher, K. J. (in press). Investigating multilevel mediation with fully or partially nested data. *Group Processes & Intergroup Relations*.

Ledermann, T., & Macho, S. (2009). Mediation in dyadic data at the level of the dyads: A structural equation modeling approach. *Journal of Family Psychology, 23*, 661-670.

Li, X., & Beretvas, S. N. (2013). Sample size limits for estimating upper level mediation models using multilevel SEM. *Structural Equation Modeling: A Multidisciplinary Journal, 20*, 241-264.

Lockhart, L. L. (2012). *Nonlinear mediation in clustered data: A nonlinear multilevel mediation model*. Unpublished dissertation, University of Texas at Austin.

- Mathieu, J. E., & Taylor, S. R. (2007). A framework for testing meso-mediational relationships in organizational behavior. *Journal of Organizational Behavior, 28*, 141-172.
- Pituch, K. A., Murphy, D. L., & Tate, R. L. (2010). Three-level models for indirect effects in school- and class-randomized experiments in education. *The Journal of Experimental Education, 78*, 60-95.
- Pituch, K. A., & Stapleton, L. M. (2008). The performance of methods to test upper-level mediation in the presence of nonnormal data. *Multivariate Behavioral Research, 43*, 237-267.
- Pituch, K. A., & Stapleton, L. M. (2011). Hierarchical linear and structural equation modeling approaches to mediation analysis in randomized field experiments. In Williams, M., & Vogt, W. P. (Eds.), *The Sage handbook of innovation in social research methods* (pp. 590-619).
- Pituch, K. A., & Stapleton, L. M. (2012). Distinguishing between cross- and cluster-level mediation processes in the cluster randomized trial. *Sociological Methods & Research, 41*, 630-670.
- Pituch, K. A., Stapleton, L. M. & Kang, J. Y. (2006). A comparison of single sample and bootstrap methods to assess mediation in cluster randomized trials. *Multivariate Behavioral Research, 41*, 367-400.
- Pituch, K. A., Whittaker, T. A., & Stapleton, L. M. (2005). A comparison of methods to test for mediation in multisite experiments. *Multivariate Behavioral Research, 40*, 1-24.
- Preacher, K. J. (2011). Multilevel SEM strategies for evaluating mediation in three-level data. *Multivariate Behavioral Research, 46*, 691-731.
- Preacher, K. J., Zhang, Z., & Zyphur, M. J. (2011). Alternative methods for assessing mediation in multilevel data: The advantages of multilevel SEM. *Structural Equation Modeling, 18*, 161-182.
- Preacher, K. J., Zyphur, M. J., & Zhang, Z. (2010). A general multilevel SEM framework for assessing multilevel mediation. *Psychological Methods, 15*, 209-233.
- Raudenbush, S. W., & Sampson, R. (1999). Assessing direct and indirect effects in multilevel designs with latent variables. *Sociological Methods & Research, 28*, 123-153.
- Stapleton, L. M., Pituch, K. A., & Dion, E. (2014). *Standardized effect size measures for mediation analysis in cluster-randomized trials*. Unpublished manuscript.
- Sterba, S. K., Preacher, K. J., Forehand, R., Hardcastle, E. J., Cole, D. A., & Compas, B. E. (2014). Structural equation modeling approaches for analyzing partially nested data. *Multivariate Behavioral Research, 49*, 93-118.
- Tate, R. L., & Pituch, K. A. (2007). Multivariate hierarchical linear modeling in randomized field experiments. *Journal of Experimental Education, 75*, 317-337.

Tofighi, D., & Thoemmes, F. (2014). Single-level and multilevel mediation analysis. *Journal of Early Adolescence, 34*, 93-119.

Tofighi, D., West, S. G., & MacKinnon, D. P. (2013). Multilevel mediation analysis: The effects of omitted variables in the 1-1-1 model. *British Journal of Mathematical and Statistical Psychology, 66*, 290-307.

Yuan, Y., & MacKinnon, D. P. (2009). Bayesian mediation analysis. *Psychological Methods, 14*, 301-322.

Zhang, Z., Zyphur, M. J., & Preacher, K. J. (2009). Testing multilevel mediation using hierarchical linear models: Problems and solutions. *Organizational Research Methods, 12*, 695-719.

Categorical and nonnormal variables in mediation models

Blood, E. A., & Cheng, D. M. (2012). Non-linear mixed models in the analysis of mediated longitudinal data with binary outcomes. *BMC Medical Research Methodology, 12*, 1-10.

Buis, M. L. (2010). Direct and indirect effects in a logit model. *The Stata Journal, 10*, 11-29.

Chen, C. (2011). *Bayesian analyses of mediational models for survival outcome*. Unpublished dissertation, University of Cincinnati.

Collins, L. M., Graham, J. W., & Flaherty, B. P. (1998). An alternative framework for defining mediation. *Multivariate Behavioral Research, 33*, 295-312.

Coxe, S., & MacKinnon, D. P. (2010). Abstract: Mediation analysis of Poisson distributed count outcomes. *Multivariate Behavioral Research, 45*, 1022.

Ditlevsen, S., Christensen, U., Lynch, J., Damsgaard, M., & Keiding, N. (2005). The mediation proportion: A structural equation approach for estimating the proportion of exposure effect on outcome explained by an intermediate variable. *Epidemiology, 16*, 114-120.

Elliott, M. R., Raghunathan, T. E., & Li, Y. (2010). Bayesian inference for causal mediation effects using principal stratification with dichotomous mediators and outcomes. *Biostatistics, 11*, 353-372.

Emsley, R., Dunn, G., & White, I. R. (2010). Mediation and moderation of treatment effects in randomised controlled trials of complex interventions. *Statistical Methods in Medical Research, 19*, 237-270.

Fairchild, A. J., Abara, W. E., Gottschall, A. C., Tein, J.-Y., & Prinz, R. J. (2013). Improving our ability to evaluate underlying mechanisms of behavioral onset and other event occurrence outcomes: A discrete-time survival mediation model. *Evaluation and the Health Professions*. Epub ahead of print. doi: 10.1177/0163278713512124

Filiaci, V. L. (2010). *Evaluation of binary intermediate endpoints for their departure from perfect surrogacy*. Unpublished dissertation, University at Buffalo, State University of New York.

- Finch, J. F., West, S. G., & MacKinnon, D. P. (1997). Effects of sample size and nonnormality on the estimation of mediated effects in latent variable models. *Structural Equation Modeling, 4*, 87-107.
- Grotta, A. (2012). *Causal mediation analysis on survival data: An application on the National March Cohort*. University of Milano-Bicocca.
- Gunzler, D. (2011). *A class of distribution-free models for longitudinal mediation analysis*. Unpublished dissertation, University of Rochester.
- Huang, B., Sivaganesan, S., Succop, P., & Goodman, E. (2004). Statistical assessment of mediational effects for logistic mediational models. *Statistics in Medicine, 23*, 2713-2728.
- Jasti, S., Dudley, W. N., & Goldwater, E. (2008). SAS macros for testing statistical mediation in data with binary mediators or outcomes. *Nursing Research, 57*, 118-121.
- Karlson, K. B., Holm, A., & Breen, R. (2010). *Total, direct, and indirect effects in logit models*. Centre for Strategic Research in Education Working Paper No. 0005.
- Lange, T., & Hansen, J. V. (2011). Direct and indirect effects in a survival context. *Epidemiology, 22*, 575-581.
- Li, Y., Schneider, J. A., & Bennett, D. A. (2007). Estimation of the mediation effect with a binary mediator. *Statistics in Medicine, 26*, 3398-3414.
- MacKinnon, D. P., & Dwyer, J. H. (1993). Estimating mediated effects in prevention studies. *Evaluation Review, 17*, 144-158.
- MacKinnon, D. P., Lockwood, C. M., Brown, C. H., Wang, W., & Hoffman, J. M. (2007). The intermediate endpoint effect in logistic and probit regression. *Clinical Trials, 4*, 499-513.
- Muthén, B. (2011). *Applications of causally defined direct and indirect effects in mediation analysis using SEM in Mplus*. Unpublished manuscript.
- Pan, Z. (2000). *Surrogate markers for survival times in clinical trials: A proposed class of intermediate events as marker variables*. Unpublished dissertation, University of Colorado.
- Sun, Y. (2010). *Methods for estimating mediation effect in survival analysis: Does weight loss mediate the undernutrition-mortality relationship in the older adults?* Unpublished dissertation, The University of Alabama at Birmingham.
- Tchetgen Tchetgen, E. J. (2011). On causal mediation analysis with a survival outcome. *International Journal of Biostatistics, 7*, Art. 33, 38.
- Tchetgen Tchetgen, E. J. (2012a). *Formulae for causal mediation analysis in an odds ratio context without a normality assumption for the continuous mediator*. Unpublished manuscript, Harvard University.

Tchetgen Tchetgen, E. J. (2012b). *Inverse odds ratio-weighted estimation for causal mediation analysis*. Unpublished manuscript, Harvard University.

Tchetgen Tchetgen, E. J. (2013). A note on formulae for causal mediation analysis in an odds ratio context. *Epidemiologic Methods*, 2, 21-31.

Tein, J.-Y., & MacKinnon, D. P. (2003). Estimating mediated effects with survival data. In H. Yanai, A. Okada, K. Shigemasu, Y. Kano, & J. J. Meulman (Eds.), *New developments in psychometrics*. Tokyo: Springer-Verlag.

Valeri, L., & VanderWeele, T. J. (2013). Mediation analysis allowing for exposure-mediator interactions and causal interpretation: Theoretical assumptions and implementation with SAS and SPSS macros. *Psychological Methods*, 18, 137-150. [note: erratum in *PM*, 18(4)]

VanderWeele, T. J. (2011). Causal mediation analysis with survival data. *Epidemiology*, 22, 582-585.

Wang, L., & Zhang, Z. (2011). Estimating and testing mediation effects with censored data. *Structural Equation Modeling*, 18, 18-34.

Wang, W., & Albert, J. M. (2012). Estimation of mediation effects for zero-inflated regression models. *Statistics in Medicine*, 31, 3118-3132.

Xiao, Y. (2012). *Flexible marginal structural models for survival analysis*. Unpublished dissertation, McGill University.

Yuan, Y., & MacKinnon, D. P. (2014). Robust mediation analysis based on median regression. *Psychological Methods*, 19, 1-20.

Zhao, S. (2012). *Covariate measurement error correction methods in mediation analysis with failure time data*. Unpublished dissertation, University of Washington.

Zu, J., & Yuan, K.-H. (2010). Local influence and robust procedures for mediation analysis. *Multivariate Behavioral Research*, 45, 1-44.

American Journal of Epidemiology special issue

VanderWeele, T. J., & Vansteelandt, S. (2010a). Odds ratios for mediation analysis with a dichotomous outcome. *American Journal of Epidemiology*, 172, 1339-1348.

Kaufman, J. S. (2010). Decomposing with a lot of supposing. *American Journal of Epidemiology*, 172, 1349-1351.

Ten Have, T. (2010). Pushing the mediation envelope. *American Journal of Epidemiology*, 172, 1352-1354.

VanderWeele, T. J., & Vansteelandt, S. (2010b). Response to invited comments. *American Journal of Epidemiology*, 172, 1355-1356.

Journal of Consumer Psychology special issue

Iacobucci, D. (2012). Mediation analysis and categorical variables: The final frontier. *Journal of Consumer Psychology, 22*, 582-594.

Feinberg, F. M. (2012). Mediation analysis and categorical variables: Some further frontiers. *Journal of Consumer Psychology, 22*, 595-598.

Gilula, Z. (2012). Mediation with categorical variables: Consider ordinal models, empirical Bayes, and alternatives to R^2 . *Journal of Consumer Psychology, 22*, 599.

MacKinnon, D. P., & Cox, M. G. (2012). Commentary on "Mediation analysis and categorical variables: The final frontier" by Dawn Iacobucci. *Journal of Consumer Psychology, 22*, 600-602.

Iacobucci, D. (2012). Mediation with categorical variables complete. *Journal of Consumer Psychology, 22*, 603-604.

Mediation models for longitudinal data

Bentley, J. P. (2011). *An examination of statistical methods for longitudinal mediation modeling*. Unpublished dissertation, The University of Alabama at Birmingham.

Blood, E. A., Cabral, H., Heeren, T., & Cheng, D. M. (2010). Performance of mixed effects models in the analysis of mediated longitudinal data. *BMC Medical Research Methodology, 10*.

Blood, E. A., & Cheng, D. M. (2011). The use of mixed models for the analysis of mediated data with time-dependent predictors. *Journal of Environmental and Public Health*, Volume 2011, Article ID 435078.

Blood, E. A., & Cheng, D. M. (2012). Non-linear mixed models in the analysis of mediated longitudinal data with binary outcomes. *BMC Medical Research Methodology, 12*, 1-10.

Cheong, J. (2011). Accuracy of estimates and statistical power for testing mediation in latent growth curve modeling. *Structural Equation Modeling, 18*, 195-211.

Cheong, J., MacKinnon, D., & Khoo, S. T. (2001). A latent growth modeling approach to mediation analysis. In L. M. Collins & A. G. Sayer (Eds.), *New methods for the analysis of change* (pp. 390-392). Washington DC: American Psychological Association.

Cheong, J., MacKinnon, D. P., & Khoo, S. T. (2003). Investigation of mediational process using parallel process latent growth curve modeling. *Structural Equation Modeling, 10*, 238-262.

Cole, D. A., & Maxwell, S. E. (2003). Testing mediational models with longitudinal data: Questions and tips in the use of structural equation modeling. *Journal of Abnormal Psychology, 112*, 558-577.

Deboeck, P., & Preacher, K. J. (under review). *No need to be discrete: A method for continuous time mediation analysis*.

Fritz, M. S. (2007). *An exponential decay model for mediation*. Unpublished dissertation, Arizona State University.

Fritz, M. S. (in press). An exponential decay model for mediation. *Prevention Science*.

Gollob, H. F., & Reichardt, C. S. (1991). Interpreting and estimating indirect effects assuming time lags really matter. In L. M. Collins & J. L. Horn (Eds.), *Best methods for the analysis of change* (pp. 243-259). Washington, DC: American Psychological Association.

Gunzler, D. (2011). *A class of distribution-free models for longitudinal mediation analysis*. Unpublished dissertation, University of Rochester.

Liu, L. C., Flay, B. R., & Aban Aya Investigators (2009). Evaluating mediation in longitudinal multivariate data: Mediation effects for the Aban Aya Youth Project Drug Prevention Program. *Prevention Science, 10*, 197-207.

Maxwell, S. E., & Cole, D. A. (2007). Bias in cross-sectional analyses of longitudinal mediation. *Psychological Methods, 12*, 23-44.

Mitchell, M. A., & Maxwell, S. E. (2013). *Multivariate Behavioral Research, 48*, 301-339.

Pitariu, A. H., & Ployhart, R. E. (2010). Explaining change: Theorizing and testing dynamic mediated longitudinal relationships. *Journal of Management, 36*, 405-429.

Roth, D. L., & MacKinnon, D. P. (2012). Mediation analysis with longitudinal data. In Newsom, J. T., Jones, R. N., & Hofer, S. M. (Eds.), *Longitudinal data analysis: A practical guide for researchers in aging, health, and social sciences* (pp. 181-216). New York: Routledge.

Selig, J. P., & Preacher, K. J. (2009). Mediation models for longitudinal data in developmental research. *Research in Human Development, 6*, 144-164.

Trail, J. B., Timms, K., Piper, M. E., Collins, L. M., & Rivera, D. E. (2011). *Dynamic mediation analysis of intensive longitudinal data*. Paper presented at the Modern Modeling Methods (M3) Conference, Storrs, CT.

VanderWeele, T. J. (2010b). Direct and indirect effects for neighborhood-based clustered and longitudinal data. *Sociological Methods & Research, 38*, 515-544.

von Soest, T., & Hagtvet, K. A. (2011). Mediation analysis in a latent growth curve modeling framework. *Structural Equation Modeling, 18*, 289-314.

Wang, L., Zhang, Z., & Estabrook, R. (2009). Longitudinal mediation analysis of training intervention effects. In S.-M. Chow, E. Ferrer, & F. Hsieh (Eds.), *Statistical methods for modeling human dynamics: An interdisciplinary dialogue* (pp. 349-380). New Jersey: Lawrence Erlbaum Associates.

Multivariate Behavioral Research special issue

West, S. G. (2011). Editorial: Introduction to the special section on causal inference in cross sectional and longitudinal mediational models. *Multivariate Behavioral Research*, 46, 812-815.

Maxwell, S. E., Cole, D. A., & Mitchell, M. A. (2011). Bias in cross-sectional analyses of longitudinal mediation: Partial and complete mediation under an autoregressive model. *Multivariate Behavioral Research*, 46, 816-841.

Reichardt, C. S. (2011). Commentary: Are three waves of data sufficient for assessing mediation? *Multivariate Behavioral Research*, 46, 842-851.

Shrout, P. E. (2011). Commentary: Mediation analysis, causal process, and cross-sectional data. *Multivariate Behavioral Research*, 46, 852-860.

Imai, K., Jo, B., & Stuart, E. A. (2011). Commentary: Using potential outcomes to understand causal mediation analysis. *Multivariate Behavioral Research*, 46, 861-873.

Causal inference for indirect effects

Albert, J. M. (2008). Mediation analysis via potential outcomes models. *Statistics in Medicine*, 27, 1282-1304.

Albert, J. M., & Nelson, S. (2011). Generalized causal mediation analysis. *Biometrics*, 67, 1028-1038.

Bollen, K. A., & Pearl, J. (2013). Eight myths about causality and structural equation models. In S. L. Morgan (Ed.), *Handbook of causal analysis for social research* (pp. 301-328). Springer.

Bullock, J. G., Green, D. P., & Ha, S. E. (2010). Yes, but what's the mechanism? (Don't expect an easy answer). *Journal of Personality and Social Psychology*, 98, 550-558.

Chiba, Y. (2010a). Bias analysis for the principal stratum direct effect in the presence of confounded intermediate variables. *Journal of Biometrics and Biostatistics*, 1, 101.

Chiba, Y. (2010b). Bounds on controlled direct effects under monotonic assumptions about mediators and confounders. *Biometrical Journal*, 52, 628-637.

Chiba, Y., & Suzuki, E. (2013). Causal inference with intermediates: Simple methods for principal strata effects and natural direct effects. In A. J. Rodriguez-Morales (Ed.), *Current topics in public health* (pp. 37-60).

Chiba, Y. (2012). Monte-Carlo sensitivity analysis for controlled direct effects using marginal structural models in the presence of confounded mediators. *Communications in Statistics – Theory and Methods*, 41, 1739-1749.

- Coffman, D. L. (2011). Estimating causal effects in mediation analysis using propensity scores. *Structural Equation Modeling, 18*, 357-369.
- Coffman, D. L., & Zhong, W. (2012). Assessing mediation using marginal structural models in the presence of confounding and moderation. *Psychological Methods, 17*, 642-664.
- Daniel, R. M., De Stavola, B. L., & Cousens, S. N. (2011). gformula: Estimating causal effects in the presence of time-varying confounding or mediation using the g-computation formula. *The Stata Journal, 11*, 479-517.
- Daniels, M. J., Roy, J. A., Kim, C., Hogan, J. W., & Perri, M. G. (2012). Bayesian inference for the causal effect of mediation. *Biometrics, 68*, 1028-1036.
- Elliott, M. R., Raghunathan, T. E., & Li, Y. (2010). Bayesian inference for causal mediation effects using principal stratification with dichotomous mediators and outcomes. *Biostatistics, 11*, 353-372.
- Emsley, R., Dunn, G., & White, I. R. (2010). Mediation and moderation of treatment effects in randomised controlled trials of complex interventions. *Statistical Methods in Medical Research, 19*, 237-270.
- Erikson, R., Goldthorpe, J. H., Jackson, M., Yaish, M., & Cox, D. R. (2005). On class differentials in educational attainment. *Proceedings of the National Academy of Science, 102*, 9730-9733.
- Gallop, R., Small, D. S., Lin, J. Y., Elliott, M. R., Joffe, M., & Ten Have, T. R. (2009). Mediation analysis with principal stratification. *Statistics in Medicine, 28*, 1108-1130.
- Grotta, A. (2012). *Causal mediation analysis on survival data: An application on the National March Cohort*. University of Milano-Bicocca.
- Hafeman, D. M., & VanderWeele, T. J. (2011). Alternative assumptions for the identification of direct and indirect effects. *Epidemiology, 22*, 753-764.
- Hicks, R., & Tingley, D. (2011). Causal mediation analysis. *The Stata Journal, 11*, 609-615.
- Hogan, J. W., & Liu, T. (2008). Mediation analysis for intervention trials: Objectives, models, and inference. *Health Services and Outcomes Research Methodology, 8*, 77-79.
- Holland, P. W. (1986). Statistics and causal inference. *Journal of the American Statistical Association, 81*, 945-970.
- Holland, P. W. (1988). Causal inference, path analysis, and recursive structural equations models. *Sociological Methodology, 18*, 449-484.
- Imai, K., Jo, B., & Stuart, E. A. (2011). Commentary: Using potential outcomes to understand causal mediation analysis. *Multivariate Behavioral Research, 46*, 861-873.

- Imai, K., Keele, L., & Tingley, D. (2010). A general approach to causal mediation analysis. *Psychological Methods, 15*, 309-334.
- Imai, K., Keele, L., Tingley, D., & Yamamoto, T. (2010). Causal mediation analysis using R. In H. D. Vinod (Ed.), *Advances in social science research Using R* (pp. 129-154). New York: Springer.
- Imai, K., Keele, L., & Yamamoto, T. (2010). Identification, inference and sensitivity analysis for causal mediation effects. *Statistical Science, 25*, 51-71.
- Imai, K., Tingley, D., & Yamamoto, T. (2013). Experimental designs for identifying causal mechanisms. *Journal of the Royal Statistical Society, Series A (Statistics in Society), 176*, 5-51.
- Jin, H., & Rubin, D. B. (2008). *Journal of the American Statistical Association, 103*, 101-111.
- Jo, B. (2008). Causal inference in randomized experiments with mediational processes. *Psychological Methods, 13*, 314-336.
- Jo, B., Stuart, E. A., MacKinnon, D., & Vinokur, A. D. (2011). The use of propensity scores in mediation analysis. *Multivariate Behavioral Research, 46*, 425-452.
- Karlson, K. B., Holm, A., & Breen, R. (2010). *Total, direct, and indirect effects in logit models*. Centre for Strategic Research in Education Working Paper No. 0005.
- Karlson, K. B., Holm, A., & Breen, R. (2012). Comparing regression coefficients between same-sample nested models using logit and probit: A new method. *Sociological Methodology, 42*, 286-313.
- Kaufman, J. S., MacLehose, R. F., Kaufman, S., & Greenland, S. (2005). The mediation proportion. *Epidemiology, 16*, 710.
- Lange, T., Vansteelandt, S., & Bekaert, M. (2012). A simple unified approach for estimating natural direct and indirect effects. *American Journal of Epidemiology, 176*, 190-195.
- Loeys, T., Moerkerke, B., de Smet, O., Buysse, A., Steen, J., & Vansteelandt, S. (2013). Flexible mediation analysis in the presence of nonlinear relations: Beyond the mediation formula. *Multivariate Behavioral Research, 48*, 871-894.
- Lynch, K., Cary, M., Gallop, R., & Ten Have, T. (2008). Causal mediation analyses for randomized trials. *Health Services and Outcomes Research Methodology, 8*, 57-76.
- Muthén, B. (2011). *Applications of causally defined direct and indirect effects in mediation analysis using SEM in Mplus*. Unpublished manuscript.
- Muthén, B., & Asparouhov, T. (in press). Causal effects in mediation modeling: An introduction with applications to latent variables. *Structural Equation Modeling*.

- Ogburn, E. L. (2012). Commentary of "Mediation analysis without sequential ignorability: Using baseline covariates interacted with random assignment as instrumental variables." *Journal of Statistical Research*, 46, 105-111.
- Pearl, J. (2001). Direct and indirect effects. In *Proceedings of the Seventeenth Conference on Uncertainty in Artificial Intelligence* (pp. 411-420). San Francisco, CA: Morgan Kaufmann.
- Pearl, J. (2009). *Causality: Models, reasoning, and inference* (2nd ed.). New York: Cambridge University Press.
- Pearl, J. (2010). The foundations of causal inference. *Sociological Methodology*, 40, 75-149.
- Pearl, J. (2011a). The mathematics of causal relations. In P. E. Shrout (Ed.), *Causality and Psychopathology* (pp. 47-65). New York: Oxford University Press.
- Pearl, J. (2011b). The science and ethics of causal modeling. In A. T. Panter & S. K. Sterba (Eds.), *Handbook of Ethics in Quantitative Methodology* (pp. 383-414). New York: Taylor & Francis.
- Pearl, J. (2012a). *Interpretable conditions for identifying direct and indirect effects*. Technical Report R-389, Department of Computer Science, University of California, Los Angeles, CA.
- Pearl, J. (2012b) The causal mediation formula—A guide to the assessment of pathways and mechanisms. *Prevention Science*, 13, 426-436.
- Pearl, J. (2012c). The mediation formula: A guide to the assessment of causal pathways in nonlinear models. In C. Berzuini, P. Dawid, & L. Bernardinelli (Eds.), *Causality: Statistical perspectives and applications* (pp. 151-179). Chichester, UK: John Wiley & Sons.
- Pearl, J. (2014). Reply to commentary by Imai, Keele, Tingley, and Yamamoto, concerning causal mediation analysis. *Psychological Methods*.
- Pearl, J. (in press). Interpretation and identification of causal mediation. *Psychological Methods*.
- Richiardi, L., Bellocco, R., & Zugna, D. (2013). Mediation analysis in epidemiology: methods, interpretation and bias. *International Journal of Epidemiology*, 42, 1511-1519.
- Robins, J. M. (2003). Semantics of causal DAG models and the identification of direct and indirect effects. In P. J. Green, N. L. Hjort, & S. Richardson (Eds.), *Highly structured stochastic systems* (pp. 70-81). Oxford: Oxford Univ. Press.
- Robins, J. M., & Greenland, S. (1992). Identifiability and exchangeability for direct and indirect effects. *Epidemiology*, 3, 143-155.
- Rubin, D. B. (1974). Estimating causal effects of treatments in randomized and nonrandomized studies. *Journal of Educational Psychology*, 66, 688-701.
- Rubin, D. B. (2004). Direct and indirect causal effects via potential outcomes. *Scandinavian Journal of Statistics*, 31, 161-170.

Shadish, W. R., & Sullivan, K. J. (2012). Theories of causation in psychological science. In Cooper, H. (Ed.), *APA handbook of research methods in psychology, vol. 1: Foundations, planning, measures, and psychometrics* (pp. 23-52). Washington, DC: American Psychological Association.

Shpitser, I. (2013). Counterfactual graphical models for longitudinal mediation analysis with unobserved confounding. *Cognitive Science*, *37*, 1011-1035.

Sigall, H., & Mills, J. (1998). Measures of independent variables and mediators are useful in social psychology experiments: But are they necessary? *Personality and Social Psychology Review*, *2*, 218-226.

Small, D. S. (2012). Mediation analysis without sequential ignorability: Using baseline covariates interacted with random assignment as instrumental variables. *Journal of Statistical Research*, *46*, 91-103.

Smith, E. R. (1982). Beliefs, attributions, and evaluations: Nonhierarchical models of mediation in social cognition. *Journal of Personality and Social Psychology*, *43*, 248-259.

Smith, E. R. (2012). Editorial. *Journal of Personality and Social Psychology*, *102*, 1-3.

Sobel, M. E. (2008). Identification of causal parameters in randomized studies with mediating variables. *Journal of Educational and Behavioral Statistics*, *33*, 230-251.

Stone-Romero, E. F., & Rosopa, P. J. (2008). The relative validity of inferences about mediation as a function of research design characteristics. *Organizational Research Methods*, *11*, 326-352.

Stone-Romero, E. F., & Rosopa, P. J. (2010). Research design options for testing mediation models and their implications for facets of validity. *Journal of Managerial Psychology*, *25*, 697-712.

Stone-Romero, E. F., & Rosopa, P. J. (2011). Experimental tests of mediation models: Prospects, problems, and some solutions. *Organizational Research Methods*, *14*, 631-646.

Tchetgen Tchetgen, E. J. (2011). On causal mediation analysis with a survival outcome. *International Journal of Biostatistics*, *7*, Art. 33, 38.

Tchetgen Tchetgen, E. J. (2012a). *Formulae for causal mediation analysis in an odds ratio context without a normality assumption for the continuous mediator*. Unpublished manuscript, Harvard University.

Tchetgen Tchetgen, E. J. (2012b). *Inverse odds ratio-weighted estimation for causal mediation analysis*. Unpublished manuscript, Harvard University.

Tchetgen Tchetgen, E. J. (2013). A note on formulae for causal mediation analysis in an odds ratio context. *Epidemiologic Methods*, *2*, 21-31.

Tchetgen Tchetgen, E. J., & Lin, S. H. (2012). *Robust estimation of pure/natural direct effects with mediator measurement error*. Harvard University Biostatistics Working Paper 129. Available at <http://biostats.bepress.com/harvardbiostat/paper152>.

Tchetgen Tchetgen, E. J., & Shpitser, I. (2011). *Semiparametric estimation of models for natural direct and indirect effects*. Harvard University Biostatistics Working Paper 129. Available at <http://biostats.bepress.com/harvardbiostat/paper129>.

Tchetgen Tchetgen, E. J., & Shpitser, I. (2012). Semiparametric theory for causal mediation analysis: Efficiency bounds, multiple robustness and sensitivity analysis. *The Annals of Statistics*, 40, 1816-1845.

Tchetgen Tchetgen, E. J., & VanderWeele, T. J. (2012). *On identification of natural direct effects when a confounder of the mediator is directly affected by exposure*. Harvard University Biostatistics Working Paper 148. Available at <http://biostats.bepress.com/harvardbiostat/paper148>.

Ten Have, T. R., Joffe, M. M., Lynch, K. G., Brown, G. K., Maisto, S. A., Beck, A. T. (2007). Causal mediation analyses with rank preserving models. *Biometrics*, 63, 926-934.

Tingley, D., Yamamoto, T., Hirose, K., Keele, L., & Imai, K. (in press). mediation: R package for causal mediation analysis. *Journal of Statistical Software*.

Valeri, L., & VanderWeele, T. J. (2013). Mediation analysis allowing for exposure-mediator interactions and causal interpretation: Theoretical assumptions and implementation with SAS and SPSS macros. *Psychological Methods*, 18, 137-150. [note: erratum in *PM*, 18(4)]

van der Laan, M. J., & Petersen, M. L. (2004). *Estimation of direct and indirect causal effects in longitudinal studies*. U.C. Berkeley Division of Biostatistics Working Paper No. 155.

VanderWeele, T. J. (2009). Marginal structural models for the estimation of direct and indirect effects. *Epidemiology*, 20, 18-26.

VanderWeele, T. J. (2010a). Bias formulas for sensitivity analysis for direct and indirect effects. *Epidemiology*, 21, 540-551.

VanderWeele, T. J. (2010b). Direct and indirect effects for neighborhood-based clustered and longitudinal data. *Sociological Methods & Research*, 38, 515-544.

VanderWeele, T. J. (2011). Causal mediation analysis with survival data. *Epidemiology*, 22, 582-585.

VanderWeele, T. J. (2012). Confounding and effect modification: Distribution and measure. *Epidemiologic Methods*, 1, Article 4.

VanderWeele, T. J. (2013). A three-way decomposition of a total effect into direct, indirect, and interactive effects. *Epidemiology*, 24, 224-232.

VanderWeele, T. J., & Vansteelandt, S. (2009). Conceptual issues concerning mediation, interventions and composition. *Statistics and Its Interface*, 2, 457-468.

Vansteelandt, S. (2012). Estimation of direct and indirect effects. In C. Berzuini, P. Dawid, & L. Bernardinelli (Eds.), *Causal inference: Statistical perspectives and applications* (pp. 126-150). West Sussex, UK: Wiley.

Vansteelandt, S., Bekaert, M., & Lange, T. (2012). Imputation strategies for the estimation of natural direct and indirect effects. *Epidemiologic Methods*, 1, 131-158.

Vansteelandt, S., & VanderWeele, T. J. (2012) Natural direct and indirect effects on the exposed: Effect decomposition under weaker assumptions. *Biometrics*, 68, 1019-1027.

Journal of Research on Educational Effectiveness special issue

Hong, G. (2012). Editorial comments. *Journal of Research on Educational Effectiveness*, 5, 213-214.

Page, L. C. (2012a). Principal stratification as a framework for investigating mediational processes in experimental settings. *Journal of Research on Educational Effectiveness*, 5, 215-244.

VanderWeele, T. J. (2012). Comments: Should principal stratification be used to study mediational processes? *Journal of Research on Educational Effectiveness*, 5, 245-249.

Jo, B., & Stuart, E. A. (2012). Comments: Causal interpretations of mediation effects. *Journal of Research on Educational Effectiveness*, 5, 250-253.

Hill, J. (2012). Comments. *Journal of Research on Educational Effectiveness*, 5, 254-257.

Page, L. C. (2012b). Rejoinder. *Journal of Research on Educational Effectiveness*, 5, 258-260.

Hong, G., & Nomi, T. (2012a). Weighting methods for assessing policy effects mediated by peer change. *Journal of Research on Educational Effectiveness*, 5, 261-289.

Sobel, M. E., & Stuart, E. A. (2012). Comments. *Journal of Research on Educational Effectiveness*, 5, 290-292.

Imai, K. (2012). Comments: Improving weighting methods for causal mediation analysis. *Journal of Research on Educational Effectiveness*, 5, 293-295.

Steiner, P. M. (2012). Comments: Using design elements for increasing the severity of causal mediation tests. *Journal of Research on Educational Effectiveness*, 5, 296-298.

Hong, G., & Nomi, T. (2012b). Rejoinder. *Journal of Research on Educational Effectiveness*, 5, 299-302.

Raudenbush, S. W., Reardon, S. F., & Nomi, T. (2012a). Statistical analysis for multisite trials using instrumental variables with random coefficients. *Journal of Research on Educational Effectiveness*, *5*, 303-332.

Bloom, H. S. (2012). Comments: Statistical analysis for multisite trials. *Journal of Research on Educational Effectiveness*, *5*, 333-335.

Neal, D. (2012). Comments. *Journal of Research on Educational Effectiveness*, *5*, 336-337.

Seltzer, M. H. (2012). Comments. *Journal of Research on Educational Effectiveness*, *5*, 338-341.

Raudenbush, S. W., Reardon, S. F., & Nomi, T. (2012). Rejoinder: Probing assumptions, enriching analysis. *Journal of Research on Educational Effectiveness*, *5*, 342-344.

General + Miscellaneous

Bollen, K. A. (1987). Total, direct, and indirect effects in structural equation models. *Sociological Methodology*, *17*, 37-69.

Hayes, A. F., & Preacher, K. J. (in press). Statistical mediation analysis with a multicategorical independent variable. *British Journal of Mathematical & Statistical Psychology*.

MacKinnon, D. P. (2008). *Introduction to statistical mediation analysis*. Mahwah, NJ: Taylor & Francis.

MacKinnon, D. P., & Fairchild, A. J. (2009). Current directions in mediation analysis. *Current Directions in Psychological Science*, *18*, 16-20.

MacKinnon, D. P., Fairchild, A. J., & Fritz, M. S. (2007). Mediation analysis. *Annual Review of Psychology*, *58*, 593-614.

MacKinnon, D. P., Kisbu-Sakarya, Y., & Gottschall, A. C. (2013). Developments in mediation analysis. In T. D. Little (Ed.), *The Oxford handbook of quantitative methods, Vol. 2* (pp. 338-360). New York: Oxford University Press.

MacKinnon, D. P., Lockhart, G., Baraldi, A. N., & Gelfand, L. A. (2013). Evaluating treatment mediators and moderators. In J. S. Comer & P. C. Kendall (Eds.), *The Oxford handbook of research strategies for clinical psychology* (pp. 262-286). New York: Oxford University Press.

MacKinnon, D. P., Lockwood, C. M., Hoffman, J. M., West, S. G., & Sheets, V. (2002). A comparison of methods to test mediation and other intervening variable effects. *Psychological Methods*, *7*, 83-104.

MacKinnon, D. P., Lockwood, C. M., & Williams, J. (2004). Confidence limits for the indirect effect: Distribution of the product and resampling methods. *Multivariate Behavioral Research*, *39*, 99-128.

Stapleton, L. M., Pituch, K. A., & Dion, E. (in press). Standardized effect size measures for mediation analysis in cluster-randomized trials. *Journal of Experimental Education*.