

# manMCMedMiss: References

Ivan Jacob Agaloos Pesigan

## References

- Allison, P. (2002). *Missing data*. SAGE Publications, Inc. <https://doi.org/10.4135/9781412985079>
- Allison, P. D. (2000). Multiple imputation for missing data: A cautionary tale. *Sociological Methods & Research*, 28(3), 301–309. <https://doi.org/10.1177/0049124100028003003>
- Andrews, D. W. K. (2000). Inconsistency of the bootstrap when a parameter is on the boundary of the parameter space. *Econometrica*, 68(2), 399–405. <https://doi.org/10.1111/1468-0262.00114>
- Arbuckle, J. L. (1996). Full information estimation in the presence of incomplete data. In G. A. Marcoulides & R. E. Schumacker (Eds.), *Advanced structural equation modeling*. Psychology Press. <https://doi.org/10.4324/9781315827414>
- Arbuckle, J. L. (2014). *Amos 23.0 user's guide*. Chicago, IBM SPSS.
- Arbuckle, J. L. (2019). *Amos 26.0 user's guide*. Chicago, IBM SPSS.
- Arbuckle, J. L. (2020). *Amos 27.0 user's guide*. Chicago, IBM SPSS.
- Arbuckle, J. L. (2021). *Amos 28.0 user's guide*. Chicago, IBM SPSS.
- Aroian, L. A. (1947). The probability function of the product of two normally distributed variables. *The Annals of Mathematical Statistics*, 18(2), 265–271. <https://doi.org/10.1214/aoms/1177730442>
- Asparouhov, T., & Muthen, B. (2022). *Multiple imputation with Mplus* (tech. rep.). <http://www.statmodel.com/download/Imputations7.pdf>

- Azur, M. J., Stuart, E. A., Frangakis, C., & Leaf, P. J. (2011). Multiple imputation by chained equations: What is it and how does it work? *International Journal of Methods in Psychiatric Research*, 20(1), 40–49. <https://doi.org/10.1002/mpr.329>
- Barnard, G. A., Collins, J. R., Farewell, V. T., Field, C. A., Kalbfleisch, J. D., Nash, S. W., Parzen, E., Prentice, R. L., Reid, N., Sprott, D. A., Switzer, P., Warren, W. G., & Weldon, K. L. (1981). Nonparametric standard errors and confidence intervals: Discussion. *The Canadian Journal of Statistics / La Revue Canadienne de Statistique*, 9(2), 158–170. <https://doi.org/10.2307/3314609>
- Baron, R. M., & Kenny, D. A. (1986). The moderator-mediator variable distinction in social psychological research: Conceptual, strategic, and statistical considerations. *Journal of Personality and Social Psychology*, 51(6), 1173–1182. <https://doi.org/10.1037/0022-3514.51.6.1173>
- 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(2), 142–163. <https://doi.org/10.1037/1082-989x.11.2.142>
- Beasley, T. M. (2013). Tests of mediation: Paradoxical decline in statistical power as a function of mediator collinearity. *The Journal of Experimental Education*, 82(3), 283–306. <https://doi.org/10.1080/00220973.2013.813360>
- Beesley, L. J., & Taylor, J. M. G. (2020). A stacked approach for chained equations multiple imputation incorporating the substantive model. *Biometrics*, 77(4), 1342–1354. <https://doi.org/10.1111/biom.13372>
- Behrendt, S. (2014). *lm.beta: Add standardized regression coefficients to lm-objects*. <https://CRAN.R-project.org/package=lm.beta>
- Bentler, P. M. (2006). *EQS 6 structural equations program manual*. Encino, CA, Multivariate Software, Inc.
- Biesanz, J. C., Falk, C. F., & Savalei, V. (2010). Assessing mediational models: Testing and interval estimation for indirect effects. *Multivariate Behavioral Research*, 45(4), 661–701. <https://doi.org/10.1080/00273171.2010.498292>

- Blair, R. C. (1981). A reaction to “consequences of failure to meet assumptions underlying the fixed effects analysis of variance and covariance”. *Review of Educational Research*, 51(4), 499–507. <https://doi.org/10.3102/00346543051004499>
- Blanca, M. J., Arnau, J., López-Montiel, D., Bono, R., & Bendayan, R. (2013). Skewness and kurtosis in real data samples. *Methodology*, 9(2), 78–84. <https://doi.org/10.1027/1614-2241/a000057>
- Boettiger, C., & Eddelbuettel, D. (2017). An introduction to Rocker: Docker containers for R. *The R Journal*, 9(2), 527. <https://doi.org/10.32614/rj-2017-065>
- Bollen, K. A., & Stine, R. (1990). Direct and indirect effects: Classical and bootstrap estimates of variability. *Sociological Methodology*, 20, 115. <https://doi.org/10.2307/271084>
- Bono, R., Blanca, M. J., Arnau, J., & Gómez-Benito, J. (2017). Non-normal distributions commonly used in health, education, and social sciences: A systematic review. *Frontiers in Psychology*, 8. <https://doi.org/10.3389/fpsyg.2017.01602>
- Bradley, J. V. (1968). *Distribution free statistical tests*. Prentice-Hall.
- Bradley, J. V. (1978). Robustness? *British Journal of Mathematical and Statistical Psychology*, 31(2), 144–152. <https://doi.org/10.1111/j.2044-8317.1978.tb00581.x>
- Bradley, J. V. (1982). The insidious L-shaped distribution. *Bulletin of the Psychonomic Society*, 20(2), 85–88. <https://doi.org/10.3758/bf03330089>
- Canty, A., & Ripley, B. D. (2020). *boot: Bootstrap R (S-Plus) functions*. <https://CRAN.R-project.org/package=boot>
- Chang, W., Cheng, J., Allaire, J. J., Xie, Y., & McPherson, J. (2020). *shiny: Web application framework for R*. The R Foundation. <https://CRAN.R-project.org/package=shiny>
- Cheema, J. R. (2014). A review of missing data handling methods in education research. *Review of Educational Research*, 84(4), 487–508. <https://doi.org/10.3102/0034654314532697>
- Chernick, M. R. (2008). *Bootstrap methods: A guide for practitioners and researchers* (2nd ed.). Wiley-Interscience. <https://doi.org/10.1002/9780470192573>
- Chernick, M. R., & LaBudde, R. A. (2011). *An introduction to bootstrap methods with applications to R*. Wiley.

- Cheung, G. W., & Lau, R. S. (2007). Testing mediation and suppression effects of latent variables. *Organizational Research Methods*, 11(2), 296–325. <https://doi.org/10.1177/1094428107300343>
- Cheung, M. W.-L. (2007a). Comparison of approaches to constructing confidence intervals for mediating effects using structural equation models. *Structural Equation Modeling: A Multidisciplinary Journal*, 14(2), 227–246. <https://doi.org/10.1080/10705510709336745>
- Cheung, M. W.-L. (2007b). Comparison of approaches to constructing confidence intervals for mediating effects using structural equation models. *Structural Equation Modeling: A Multidisciplinary Journal*, 14(2), 227–246. <https://doi.org/10.1080/10705510709336745>
- Cheung, M. W.-L. (2009a). Comparison of methods for constructing confidence intervals of standardized indirect effects. *Behavior Research Methods*, 41(2), 425–438. <https://doi.org/10.3758/brm.41.2.425>
- Cheung, M. W.-L. (2009b). Comparison of methods for constructing confidence intervals of standardized indirect effects. *Behavior Research Methods*, 41(2), 425–438. <https://doi.org/10.3758/brm.41.2.425>
- Cheung, M. W.-L. (2009c). Constructing approximate confidence intervals for parameters with structural equation models. *Structural Equation Modeling: A Multidisciplinary Journal*, 16(2), 267–294. <https://doi.org/10.1080/10705510902751291>
- Cheung, M. W.-L. (2021). Synthesizing indirect effects in mediation models with meta-analytic methods. *Alcohol and Alcoholism*, 57(1), 5–15. <https://doi.org/10.1093/alcalc/agab044>
- Cheung, S. F., Pesigan, I. J. A., & Vong, W. N. (2022). DIY bootstrapping: Getting the non-parametric bootstrap confidence interval in SPSS for any statistics or function of statistics (when this bootstrapping is appropriate). *Behavior Research Methods*. <https://doi.org/10.3758/s13428-022-01808-5>
- Cochran, W. G. (1952). The  $\chi^2$  test of goodness of fit. *The Annals of Mathematical Statistics*, 23(3), 315–345. <https://doi.org/10.1214/aoms/1177729380>
- Cohen, J. (1988). *Statistical power analysis for the behavioral sciences* (2nd ed.). Routledge. <https://doi.org/10.4324/9780203771587>

- Collins, L. M., Schafer, J. L., & Kam, C.-M. (2001). A comparison of inclusive and restrictive strategies in modern missing data procedures. *Psychological Methods*, 6(4), 330–351. <https://doi.org/10.1037/1082-989x.6.4.330>
- Craig, C. C. (1936). On the frequency function of  $xy$ . *The Annals of Mathematical Statistics*, 7(1), 1–15. <https://doi.org/10.1214/aoms/1177732541>
- Davison, A. C., & Hinkley, D. V. (1997). *Bootstrap methods and their application*. Cambridge University Press. <https://doi.org/10.1017/CBO9780511802843>
- Du, H., & Bentler, P. M. (2021). Distributionally weighted least squares in structural equation modeling. *Psychological Methods*. <https://doi.org/10.1037/met0000388>
- Efron, B. (1979a). Bootstrap methods: Another look at the jackknife. *The Annals of Statistics*, 7(1). <https://doi.org/10.1214/aos/1176344552>
- Efron, B. (1979b). Computers and the theory of statistics: Thinking the unthinkable. *SIAM Review*, 21(4), 460–480. <https://doi.org/10.1137/1021092>
- Efron, B. (1981a). Nonparametric standard errors and confidence intervals. *Canadian Journal of Statistics / La Revue Canadienne de Statistique*, 9(2), 139–158. <https://doi.org/10.2307/3314608>
- Efron, B. (1981b). Nonparametric standard errors and confidence intervals: Rejoinder. *The Canadian Journal of Statistics / La Revue Canadienne de Statistique*, 9(2), 170–172. <https://doi.org/10.2307/3314610>
- Efron, B. (1982). *The jackknife, the bootstrap and other resampling plans*. Society for Industrial; Applied Mathematics. <https://doi.org/10.1137/1.9781611970319>
- Efron, B. (1987). Better bootstrap confidence intervals. *Journal of the American Statistical Association*, 82(397), 171–185. <https://doi.org/10.1080/01621459.1987.10478410>
- Efron, B. (1988). Bootstrap confidence intervals: Good or bad? *Psychological Bulletin*, 104(2), 293–296. <https://doi.org/10.1037/0033-2909.104.2.293>
- Efron, B. (2012). Bayesian inference and the parametric bootstrap. *The Annals of Applied Statistics*, 6(4). <https://doi.org/10.1214/12-aos571>

- Efron, B., & Hastie, T. (2016a). *Bootstrap confidence intervals*. In *Computer age statistical inference*. Cambridge University Press. <https://doi.org/10.1017/cbo9781316576533>
- Efron, B., & Hastie, T. (2016b). *The jackknife and the bootstrap*. In *Computer age statistical inference*. Cambridge University Press. <https://doi.org/10.1017/cbo9781316576533>
- Efron, B., & Tibshirani, R. J. (1993). *An introduction to the bootstrap*. Chapman & Hall. <https://doi.org/10.1201/9780429246593>
- Enders, C. K. (2001a). The impact of nonnormality on full information maximum-likelihood estimation for structural equation models with missing data. *Psychological Methods*, 6(4), 352–370. <https://doi.org/10.1037/1082-989x.6.4.352>
- Enders, C. K. (2001b). A primer on maximum likelihood algorithms available for use with missing data. *Structural Equation Modeling: A Multidisciplinary Journal*, 8(1), 128–141. [https://doi.org/10.1207/s15328007sem0801\\_7](https://doi.org/10.1207/s15328007sem0801_7)
- Enders, C. K. (2010). *Applied missing data analysis*. Guilford Publications.
- Fay, R. E. (1994). [multiple-imputation inferences with uncongenial sources of input]: Comment. *Statistical Science*, 9(4). <https://doi.org/10.1214/ss/1177010270>
- Fritz, M. S., & MacKinnon, D. P. (2007). Required sample size to detect the mediated effect. *Psychological Science*, 18(3), 233–239. <https://doi.org/10.1111/j.1467-9280.2007.01882.x>
- Fritz, M. S., Taylor, A. B., & MacKinnon, D. P. (2012). Explanation of two anomalous results in statistical mediation analysis. *Multivariate Behavioral Research*, 47(1), 61–87. <https://doi.org/10.1080/00273171.2012.640596>
- Fuller, W. A. (1987). *Measurement error models* (W. A. Fuller, Ed.). John Wiley & Sons, Inc. <https://doi.org/10.1002/9780470316665>
- Glass, G. V., Peckham, P. D., & Sanders, J. R. (1972). Consequences of failure to meet assumptions underlying the fixed effects analyses of variance and covariance. *Review of Educational Research*, 42(3), 237–288. <https://doi.org/10.3102/00346543042003237>
- Godfrey, L. (2009). *Bootstrap tests for regression models*. Palgrave Macmillan. <https://doi.org/10.1057/9780230233737>

- Good, P. I. (2005). *Permutation, parametric and bootstrap tests of hypotheses*. Springer. <https://doi.org/10.1007/b138696>
- Goodman, L. A. (1960). On the exact variance of products. *Journal of the American Statistical Association*, 55(292), 708–713. <https://doi.org/10.1080/01621459.1960.10483369>
- Graham, J. W. (2009). Missing data analysis: Making it work in the real world. *Annual Review of Psychology*, 60(1), 549–576. <https://doi.org/10.1146/annurev.psych.58.110405.085530>
- Graham, J. W. (2012). *Missing data*. Springer New York. <https://doi.org/10.1007/978-1-4614-4018-5>
- Graham, J. W., Olchowski, A. E., & Gilreath, T. D. (2007). How many imputations are really needed? some practical clarifications of multiple imputation theory. *Prevention Science*, 8(3), 206–213. <https://doi.org/10.1007/s11121-007-0070-9>
- Hall, P. (1992). *The bootstrap and Edgeworth expansion*. Springer-Verlag. <https://doi.org/10.1007/978-1-4612-4384-7>
- Harel, O., & Zhou, X.-H. (2007). Multiple imputation: Review of theory, implementation and software. *Statistics in Medicine*, 26(16), 3057–3077. <https://doi.org/10.1002/sim.2787>
- Hayes, A. F. (2009). Beyond Baron and Kenny: Statistical mediation analysis in the new millennium. *Communication Monographs*, 76(4), 408–420. <https://doi.org/10.1080/03637750903310360>
- Hayes, A. F. (2013). *Introduction to mediation, moderation, and conditional process analysis: A regression-based approach*. Guilford Publications.
- Hayes, A. F. (2018). *Introduction to mediation, moderation, and conditional process analysis: A regression-based approach* (2nd ed.). Guilford Publications.
- Hayes, A. F. (2022). *Introduction to mediation, moderation, and conditional process analysis: A regression-based approach* (3rd ed.). Guilford Publications.
- Hayes, A. F., & Scharkow, M. (2013a). The relative trustworthiness of inferential tests of the indirect effect in statistical mediation analysis. *Psychological Science*, 24(10), 1918–1927. <https://doi.org/10.1177/0956797613480187>

- Hayes, A. F., & Scharkow, M. (2013b). The relative trustworthiness of inferential tests of the indirect effect in statistical mediation analysis. *Psychological Science*, 24(10), 1918–1927. <https://doi.org/10.1177/0956797613480187>
- Heitjan, D. F., & Little, R. J. A. (1988). Multiple imputation for the fatal accident reporting system. *JSM Proceedings, Survey Research Methods Section*, 79–84. <http://www.asasrms.org/Proceedings/papers/1988.018.pdf>
- Hesterberg, T. C. (2014). What teachers should know about the bootstrap: Resampling in the undergraduate statistics curriculum. <https://arxiv.org/abs/1411.5279>
- Hesterberg, T. C. (2015). What teachers should know about the bootstrap: Resampling in the undergraduate statistics curriculum. *The American Statistician*, 69(4), 371–386. <https://doi.org/10.1080/00031305.2015.1089789>
- Hoogland, J. J., & Boosma, A. (1998). Robustness studies in covariance structure modeling. *Sociological Methods & Research*, 26(3), 329–367. <https://doi.org/10.1177/0049124198026003003>
- Hoyle, R. H., & Kenny, D. A. (1999). Sample size, reliability and tests of statistical mediation. In R. H. Hoyle (Ed.), *Statistical strategies for small sample research* (pp. 195–222). Sage Publications.
- James, L. R., & Brett, J. M. (1984). Mediators, moderators, and tests for mediation. *Journal of Applied Psychology*, 69(2), 307–321. <https://doi.org/10.1037/0021-9010.69.2.307>
- JASP Team. (2022). *JASP (Version 0.16.1)[Computer software]*. <https://jasp-stats.org/>
- Jorgensen, T. D., Pornprasertmanit, S., Schoemann, A. M., & Rosseel, Y. (2022). *semTools: Useful tools for structural equation modeling*. <https://CRAN.R-project.org/package=semTools>
- Jose, P. E. (2013). *Doing statistical mediation and moderation*. Guilford Publications.
- Judd, C. M., & Kenny, D. A. (1981). Process analysis. *Evaluation Review*, 5(5), 602–619. <https://doi.org/10.1177/0193841x8100500502>
- Kenny, D. A., & Judd, C. M. (2013). Power anomalies in testing mediation. *Psychological Science*, 25(2), 334–339. <https://doi.org/10.1177/0956797613502676>
- Kenward, M. G., & Carpenter, J. (2007). Multiple imputation: Current perspectives. *Statistical Methods in Medical Research*, 16(3), 199–218. <https://doi.org/10.1177/0962280206075304>



- Kim, J. K., & Shao, J. (2013). *Statistical methods for handling incomplete data*. Chapman; Hall/CRC.  
<https://doi.org/10.1201/b13981>
- King, G., Honaker, J., Joseph, A., & Scheve, K. (2001). Analyzing incomplete political science data: An alternative algorithm for multiple imputation. *American Political Science Review*, 95(1), 49–69. <https://doi.org/10.1017/s0003055401000235>
- Kisbu-Sakarya, Y., MacKinnon, D. P., & Miočević, M. (2014). The distribution of the product explains normal theory mediation confidence interval estimation. *Multivariate Behavioral Research*, 49(3), 261–268. <https://doi.org/10.1080/00273171.2014.903162>
- Koopman, J., Howe, M., & Hollenbeck, J. R. (2014). Pulling the Sobel test up by its bootstraps. In *More statistical and methodological myths and urban legends: Doctrine, verity and fable in organizational and social sciences* (pp. 224–243). Routledge/Taylor & Francis Group.  
<https://doi.org/10.4324/9780203775851>
- Koopman, J., Howe, M., Hollenbeck, J. R., & Sin, H.-P. (2015). Small sample mediation testing: Misplaced confidence in bootstrapped confidence intervals. *Journal of Applied Psychology*, 100(1), 194–202. <https://doi.org/10.1037/a0036635>
- Kropko, J., Goodrich, B., Gelman, A., & Hill, J. (2014). Multiple imputation for continuous and categorical data: Comparing joint multivariate normal and conditional approaches. *Political Analysis*, 22(4), 497–519. <https://doi.org/10.1093/pan/mpu007>
- Lall, R. (2016). How multiple imputation makes a difference. *Political Analysis*, 24(4), 414–433.  
<https://doi.org/10.1093/pan/mpw020>
- Li, K. H., Raghunathan, T. E., & Rubin, D. B. (1991). Large-sample significance levels from multiply imputed data using moment-based statistics and an  $F$  reference distribution. *Journal of the American Statistical Association*, 86(416), 1065–1073. <https://doi.org/10.1080/01621459.1991.10475152>
- Little, R. J. A., & Rubin, D. B. (2002). *Statistical analysis with missing data* (2nd ed.). John Wiley & Sons, Inc. <https://doi.org/10.1002/9781119013563>
- Little, R. J. A., & Rubin, D. B. (2019). *Statistical analysis with missing data* (3rd ed.). Wiley.  
<https://doi.org/10.1002/9781119482260>

- Liu, X. S. (2013). *Statistical power analysis for the social and behavioral sciences*. Routledge. <https://doi.org/10.4324/9780203127698>
- MacKinnon, D. P., Fritz, M. S., Williams, J., & Lockwood, C. M. (2007). Distribution of the product confidence limits for the indirect effect: Program PRODCLIN. *Behavior Research Methods*, 39(3), 384–389. <https://doi.org/10.3758/bf03193007>
- 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(1), 83–104. <https://doi.org/10.1037/1082-989x.7.1.83>
- MacKinnon, D. P., Lockwood, C. M., & Williams, J. (2004a). Confidence limits for the indirect effect: Distribution of the product and resampling methods. *Multivariate Behavioral Research*, 39(1), 99–128. [https://doi.org/10.1207/s15327906mbr3901\\_4](https://doi.org/10.1207/s15327906mbr3901_4)
- MacKinnon, D. P., Lockwood, C. M., & Williams, J. (2004b). Confidence limits for the indirect effect: Distribution of the product and resampling methods. *Multivariate Behavioral Research*, 39(1), 99–128. [https://doi.org/10.1207/s15327906mbr3901\\_4](https://doi.org/10.1207/s15327906mbr3901_4)
- MacKinnon, D. P. (2008). *Introduction to statistical mediation analysis*. Erlbaum Psych Press. <https://doi.org/10.4324/9780203809556>
- McKnight, P. E., McKnight, K. M., Sidani, S., & Figueredo, A. J. (2007). *Missing data: A gentle introduction*. Guilford Publications.
- Meng, X.-L. (1994a). [multiple-imputation inferences with uncongenial sources of input]: Rejoinder. *Statistical Science*, 9(4). <https://doi.org/10.1214/ss/1177010274>
- Meng, X.-L. (1994b). Multiple-imputation inferences with uncongenial sources of input. *Statistical Science*, 9(4). <https://doi.org/10.1214/ss/1177010269>
- Micceri, T. (1989). The unicorn, the normal curve, and other improbable creatures. *Psychological Bulletin*, 105(1), 156–166. <https://doi.org/10.1037/0033-2909.105.1.156>
- Molenberghs, G., Fitzmaurice, G., Kenward, M. G., & Tsiatis, A. (2014). *Handbook of missing data methodology*. Chapman; Hall/CRC. <https://doi.org/10.1201/b17622>

- Murphy, K. R., Myers, B., & Wolach, A. (2014). *Statistical power analysis: A simple and general model for traditional and modern hypothesis tests* (4th ed.). Routledge. <https://doi.org/10.4324/9781315773155>
- Muthén, L. K., & Muthén, B. O. (2017). *Mplus user's guide. Eighth edition*. Los Angeles, CA, Muthén & Muthén.
- Neale, M. C., Hunter, M. D., Pritikin, J. N., Zahery, M., Brick, T. R., Kirkpatrick, R. M., Estabrook, R., Bates, T. C., Maes, H. H., & Boker, S. M. (2015). OpenMx 2.0: Extended structural equation and statistical modeling. *Psychometrika*, 81(2), 535–549. <https://doi.org/10.1007/s11336-014-9435-8>
- Nielsen, S. F. (2007). Proper and improper multiple imputation. *International Statistical Review*, 71(3), 593–607. <https://doi.org/10.1111/j.1751-5823.2003.tb00214.x>
- Nüst, D., Eddelbuettel, D., Bennett, D., Cannoodt, R., Clark, D., Daróczi, G., Edmondson, M., Fay, C., Hughes, E., Kjeldgaard, L., Lopp, S., Marwick, B., Nolis, H., Nolis, J., Ooi, H., Ram, K., Ross, N., Shepherd, L., Sólymos, P., ... Xiao, N. (2020). The Rockerverse: Packages and applications for containerisation with R. *The R Journal*, 12(1), 437. <https://doi.org/10.32614/rj-2020-007>
- Pawitan, Y. (2013). *In all likelihood: Statistical modelling and inference using likelihood*. Oxford University Press.
- Pearson, E. S., & Please, N. W. (1975). Relation between the shape of population distribution and the robustness of four simple test statistics. *Biometrika*, 62(2), 223–241. <https://doi.org/10.1093/biomet/62.2.223>
- Pesigan, I. J. A., & Cheung, S. F. (2020a). SEM-based methods to form confidence intervals for indirect effect: Still applicable given nonnormality, under certain conditions. *Frontiers in Psychology*, 11. <https://doi.org/10.3389/fpsyg.2020.571928>
- Pesigan, I. J. A., & Cheung, S. F. (2020b). SEM-based methods to form confidence intervals for indirect effect: Still applicable given nonnormality, under certain conditions. *Frontiers in Psychology*, 11. <https://doi.org/10.3389/fpsyg.2020.571928>

- Pesigan, I. J. A., & Cheung, S. F. (2020c). SEM-based methods to form confidence intervals for indirect effect: Still applicable given nonnormality, under certain conditions. *Frontiers in Psychology*, 11. <https://doi.org/10.3389/fpsyg.2020.571928>
- Pesigan, I. J. A., & Cheung, S. F. (2023). Monte Carlo confidence intervals for the indirect effect with missing data. *Behavior Research Methods*. <https://doi.org/10.3758/s13428-023-02114-4>
- Peugh, J. L., & Enders, C. K. (2004). Missing data in educational research: A review of reporting practices and suggestions for improvement. *Review of Educational Research*, 74(4), 525–556. <https://doi.org/10.3102/00346543074004525>
- Preacher, K. J., & Hayes, A. F. (2004). SPSS and SAS procedures for estimating indirect effects in simple mediation models. *Behavior Research Methods, Instruments, & Computers*, 36(4), 717–731. <https://doi.org/10.3758/bf03206553>
- Preacher, K. J., & Hayes, A. F. (2008). Asymptotic and resampling strategies for assessing and comparing indirect effects in multiple mediator models. *Behavior Research Methods*, 40(3), 879–891. <https://doi.org/10.3758/brm.40.3.879>
- Preacher, K. J., & Selig, J. P. (2012). Advantages of Monte Carlo confidence intervals for indirect effects. *Communication Methods and Measures*, 6(2), 77–98. <https://doi.org/10.1080/19312458.2012.679848>
- R Core Team. (2021). *R: A language and environment for statistical computing*. R Foundation for Statistical Computing. Vienna, Austria. <https://www.R-project.org/>
- R Core Team. (2022). *R: A language and environment for statistical computing*. R Foundation for Statistical Computing. Vienna, Austria. <https://www.R-project.org/>
- R Core Team. (2023). *R: A language and environment for statistical computing*. R Foundation for Statistical Computing. Vienna, Austria. <https://www.R-project.org/>
- Raghunathan, T. E., Lepkowski, J. M., Hoewyk, J. V., & Solenberger, P. (2001). A multivariate technique for multiply imputing missing values using a sequence of regression models. *Survey Methodology*, 27(1), 85–95.
- Rasmussen, J. L. (1987). Estimating correlation coefficients: Bootstrap and parametric approaches. *Psychological Bulletin*, 101(1), 136–139. <https://doi.org/10.1037/0033-2909.101.1.136>

- Reiter, J. P., & Raghunathan, T. E. (2007). The multiple adaptations of multiple imputation. *Journal of the American Statistical Association*, 102(480), 1462–1471. <https://doi.org/10.1198/016214507000000932>
- Robey, R. R., & Barcikowski, R. S. (1992). Type I error and the number of iterations in Monte Carlo studies of robustness. *British Journal of Mathematical and Statistical Psychology*, 45(2), 283–288. <https://doi.org/10.1111/j.2044-8317.1992.tb00993.x>
- Rosseel, Y. (2012). lavaan: An R package for structural equation modeling. *Journal of Statistical Software*, 48(2). <https://doi.org/10.18637/jss.v048.i02>
- Rousselet, G. A., Pernet, C. R., & Wilcox, R. R. (2021). The percentile bootstrap: A primer with step-by-step instructions in R. *Advances in Methods and Practices in Psychological Science*, 4(1), 1–10. <https://doi.org/10.1177/2515245920911881>
- Royston, P. (2004). Multiple imputation of missing values. *The Stata Journal: Promoting communications on statistics and Stata*, 4(3), 227–241. <https://doi.org/10.1177/1536867x0400400301>
- Royston, P. (2005). Multiple imputation of missing values: Update. *The Stata Journal: Promoting communications on statistics and Stata*, 5(2), 188–201. <https://doi.org/10.1177/1536867x0500500204>
- Rubin, D. B. (1976). Inference and missing data. *Biometrika*, 63(3), 581–592. <https://doi.org/10.1093/biomet/63.3.581>
- Rubin, D. B. (1987a). *Multiple imputation for nonresponse in surveys*. John Wiley & Sons, Inc. <https://doi.org/10.1002/9780470316696>
- Rubin, D. B. (1987b). *Multiple imputation for nonresponse in surveys*. John Wiley & Sons, Inc. <https://doi.org/10.1002/9780470316696>
- Rubin, D. B. (1988). An overview of multiple imputation. *JSM Proceedings, Survey Research Methods Section*, 79–84. [http://www.asasrms.org/Proceedings/papers/1988\\_016.pdf](http://www.asasrms.org/Proceedings/papers/1988_016.pdf)
- Rubin, D. B. (1996). Multiple imputation after 18+ years. *Journal of the American Statistical Association*, 91(434), 473–489. <https://doi.org/10.1080/01621459.1996.10476908>

- Rubin, D. B., & Schenker, N. (1991). Multiple imputation in health-care databases: An overview and some applications. *Statistics in Medicine*, 10(4), 585–598. <https://doi.org/10.1002/sim.4780100410>
- Satorra, A., & Bentler, P. M. (1994). Corrections to test statistics and standard errors in covariance structure analysis. In von Eye A. & C. C. Clogg (Eds.), *Latent variables analysis: Applications for developmental research* (pp. 399–419).
- Satorra, A., & Bentler, P. M. (2001). A scaled difference chi-square test statistic for moment structure analysis. *Psychometrika*, 66(4), 507–514. <https://doi.org/10.1007/bf02296192>
- Savalei, V. (2014). Understanding robust corrections in structural equation modeling. *Structural Equation Modeling: A Multidisciplinary Journal*, 21(1), 149–160. <https://doi.org/10.1080/10705511.2013.824793>
- Savalei, V., & Rosseel, Y. (2021a). Computational options for standard errors and test statistics with incomplete normal and nonnormal data in SEM. *Structural Equation Modeling: A Multidisciplinary Journal*, 29(2), 163–181. <https://doi.org/10.1080/10705511.2021.1877548>
- Savalei, V., & Rosseel, Y. (2021b). Computational options for standard errors and test statistics with incomplete normal and nonnormal data in SEM. *Structural Equation Modeling: A Multidisciplinary Journal*, 29(2), 163–181. <https://doi.org/10.1080/10705511.2021.1877548>
- Sawilowsky, S. S., & Blair, R. C. (1992). A more realistic look at the robustness and Type II error properties of the t test to departures from population normality. *Psychological Bulletin*, 111(2), 352–360. <https://doi.org/10.1037/0033-2909.111.2.352>
- Schafer, J. L. (1994). [multiple-imputation inferences with uncongenial sources of input]: Comment. *Statistical Science*, 9(4). <https://doi.org/10.1214/ss/1177010271>
- Schafer, J. L. (1997). *Analysis of incomplete multivariate data*. Chapman; Hall/CRC. <https://doi.org/10.1201/9780367803025>
- Schafer, J. L. (1999). Multiple imputation: A primer. *Statistical Methods in Medical Research*, 8(1), 3–15. <https://doi.org/10.1177/096228029900800102>
- Schafer, J. L., & Graham, J. W. (2002). Missing data: Our view of the state of the art. *Psychological Methods*, 7(2), 147–177. <https://doi.org/10.1037/1082-989x.7.2.147>

- Schafer, J. L., & Olsen, M. K. (1998a). Multiple imputation for multivariate missing-data problems: A data analyst's perspective. *Multivariate Behavioral Research*, 33(4), 545–571. [https://doi.org/10.1207/s15327906mbr3304\\_5](https://doi.org/10.1207/s15327906mbr3304_5)
- Schafer, J. L., & Olsen, M. K. (1998b). Multiple imputation for multivariate missing-data problems: A data analyst's perspective. *Multivariate Behavioral Research*, 33(4), 545–571. [https://doi.org/10.1207/s15327906mbr3304\\_5](https://doi.org/10.1207/s15327906mbr3304_5)
- Schenker, N. (1987). Better bootstrap confidence intervals: Comment. *Journal of the American Statistical Association*, 82(397), 192. <https://doi.org/10.2307/2289150>
- Schenker, N., & Taylor, J. M. G. (1996). Partially parametric techniques for multiple imputation. *Computational Statistics & Data Analysis*, 22(4), 425–446. [https://doi.org/10.1016/0167-9473\(95\)00057-7](https://doi.org/10.1016/0167-9473(95)00057-7)
- Schenker, N., Treiman, D. J., & Weidman, L. (1988). Multiple imputation of industry and occupation codes for public-use files. *JSM Proceedings, Survey Research Methods Section*, 79–84. [http://www.asasrms.org/Proceedings/papers/1988\\_017.pdf](http://www.asasrms.org/Proceedings/papers/1988_017.pdf)
- Schouten, R. M., Lugtig, P., & Vink, G. (2018). Generating missing values for simulation purposes: A multivariate amputation procedure. *Journal of Statistical Computation and Simulation*, 88(15), 2909–2930. <https://doi.org/10.1080/00949655.2018.1491577>
- Schouten, R. M., & Vink, G. (2018). The dance of the mechanisms: How observed information influences the validity of missingness assumptions. *Sociological Methods & Research*, 50(3), 1243–1258. <https://doi.org/10.1177/0049124118799376>
- Selker, R., Love, J., & Dropmann, D. (2020). *jmv: The 'jamovi' analyses*. <https://CRAN.R-project.org/package=jmv>
- Serlin, R. C. (2000). Testing for robustness in Monte Carlo studies. *Psychological Methods*, 5(2), 230–240. <https://doi.org/10.1037/1082-989x.5.2.230>
- Serlin, R. C., & Lapsley, D. K. (1985). Rationality in psychological research: The good-enough principle. *American Psychologist*, 40(1), 73–83. <https://doi.org/10.1037/0003-066x.40.1.73>
- Shao, J., & Tu, D. (1995). *The jackknife and bootstrap*. Springer Verlag. <https://doi.org/10.1007/978-1-4612-0795-5>

- Shrout, P. E., & Bolger, N. (2002). Mediation in experimental and nonexperimental studies: New procedures and recommendations. *Psychological Methods*, 7(4), 422–445. <https://doi.org/10.1037/1082-989x.7.4.422>
- Sinharay, S., Stern, H. S., & Russell, D. (2001a). The use of multiple imputation for the analysis of missing data. *Psychological Methods*, 6(4), 317–329. <https://doi.org/10.1037/1082-989x.6.4.317>
- Sinharay, S., Stern, H. S., & Russell, D. (2001b). The use of multiple imputation for the analysis of missing data. *Psychological Methods*, 6(4), 317–329. <https://doi.org/10.1037/1082-989x.6.4.317>
- Skinner, C. (1994). [multiple-imputation inferences with uncongenial sources of input]: Comment. *Statistical Science*, 9(4). <https://doi.org/10.1214/ss/1177010272>
- Sobel, M. E. (1982). Asymptotic confidence intervals for indirect effects in structural equation models. *Sociological Methodology*, 13, 290. <https://doi.org/10.2307/270723>
- Sobel, M. E. (1986). Some new results on indirect effects and their standard errors in covariance structure models. *Sociological Methodology*, 16, 159. <https://doi.org/10.2307/270922>
- Sobel, M. E. (1987). Direct and indirect effects in linear structural equation models. *Sociological Methods & Research*, 16(1), 155–176. <https://doi.org/10.1177/0049124187016001006>
- Sterne, J. A. C., White, I. R., Carlin, J. B., Spratt, M., Royston, P., Kenward, M. G., Wood, A. M., & Carpenter, J. R. (2009). Multiple imputation for missing data in epidemiological and clinical research: Potential and pitfalls. *BMJ*, 338(jun29 1), b2393–b2393. <https://doi.org/10.1136/bmj.b2393>
- Taylor, A. B., & MacKinnon, D. P. (2012). Four applications of permutation methods to testing a single-mediator model. *Behavior Research Methods*, 44(3), 806–844. <https://doi.org/10.3758/s13428-011-0181-x>
- Taylor, A. B., MacKinnon, D. P., & Tein, J.-Y. (2007). Tests of the three-path mediated effect. *Organizational Research Methods*, 11(2), 241–269. <https://doi.org/10.1177/1094428107300344>
- Tibshirani, R., & Leisch, F. (2019). *bootstrap: Functions for the book “An introduction to the bootstrap”*. <https://CRAN.R-project.org/package=bootstrap>



- Tofighi, D., & Kelley, K. (2019). Indirect effects in sequential mediation models: Evaluating methods for hypothesis testing and confidence interval formation. *Multivariate Behavioral Research*, 55(2), 188–210. <https://doi.org/10.1080/00273171.2019.1618545>
- Tofighi, D., & Kelley, K. (2020). Improved inference in mediation analysis: Introducing the model-based constrained optimization procedure. *Psychological Methods*, 25, 496–515. <https://doi.org/10.1037/met0000259>
- Tofighi, D., & MacKinnon, D. P. (2015). Monte Carlo confidence intervals for complex functions of indirect effects. *Structural Equation Modeling: A Multidisciplinary Journal*, 23(2), 194–205. <https://doi.org/10.1080/10705511.2015.1057284>
- van Buuren, S. (2018). *Flexible imputation of missing data* (2nd ed.). Chapman; Hall/CRC. <https://doi.org/10.1201/9780429492259>
- van Buuren, S., Brand, J. P. L., Groothuis-Oudshoorn, C. G. M., & Rubin, D. B. (2006). Fully conditional specification in multivariate imputation. *Journal of Statistical Computation and Simulation*, 76(12), 1049–1064. <https://doi.org/10.1080/10629360600810434>
- van Buuren, S., & Groothuis-Oudshoorn, K. (2011). mice: Multivariate imputation by chained equations in R. *Journal of Statistical Software*, 45(3). <https://doi.org/10.18637/jss.v045.i03>
- Venables, W. N., & Ripley, B. D. (2002). *Modern applied statistics with S*. Springer New York. <https://doi.org/10.1007/978-0-387-21706-2>
- Venzon, D. J., & Moolgavkar, S. H. (1988). A method for computing profile-likelihood-based confidence intervals. *Applied Statistics*, 37(1), 87. <https://doi.org/10.2307/2347496>
- Verma, J. P., & Verma, P. (2020). *Determining sample size and power in research studies*. Springer Singapore. <https://doi.org/10.1007/978-981-15-5204-5>
- Waller, N. G. (2022). *fungible: Psychometric functions from the Waller Lab*. The R Foundation. <https://CRAN.R-project.org/package=fungible>
- West, S. G. (2001). New approaches to missing data in psychological research: Introduction to the special section. *Psychological Methods*, 6(4), 315–316. <https://doi.org/10.1037/1082-989x.6.4.315>

- White, I. R., Royston, P., & Wood, A. M. (2010). Multiple imputation using chained equations: Issues and guidance for practice. *Statistics in Medicine*, 30(4), 377–399. <https://doi.org/10.1002/sim.4067>
- Wu, W., & Jia, F. (2013). A new procedure to test mediation with missing data through nonparametric bootstrapping and multiple imputation. *Multivariate Behavioral Research*, 48(5), 663–691. <https://doi.org/10.1080/00273171.2013.816235>
- Yuan, K.-H., & Bentler, P. M. (2000). Three likelihood-based methods for mean and covariance structure analysis with nonnormal missing data. *Sociological Methodology*, 30(1), 165–200. <https://doi.org/10.1111/0081-1750.00078>
- Yzerbyt, V., Muller, D., Batailler, C., & Judd, C. M. (2018a). New recommendations for testing indirect effects in mediational models: The need to report and test component paths. *Journal of Personality and Social Psychology*, 115(6), 929–943. <https://doi.org/10.1037/pspa0000132>
- Yzerbyt, V., Muller, D., Batailler, C., & Judd, C. M. (2018b). New recommendations for testing indirect effects in mediational models: The need to report and test component paths. *Journal of Personality and Social Psychology*, 115(6), 929–943. <https://doi.org/10.1037/pspa0000132>
- Zaslavsky, A. M. (1994). [multiple-imputation inferences with uncongenial sources of input]: Comment: Using the full toolkit. *Statistical Science*, 9(4). <https://doi.org/10.1214/ss/1177010273>
- Zhang, P. (2007). Multiple imputation: Theory and method. *International Statistical Review*, 71(3), 581–592. <https://doi.org/10.1111/j.1751-5823.2003.tb00213.x>
- Zhang, Z., & Wang, L. (2012). Methods for mediation analysis with missing data. *Psychometrika*, 78(1), 154–184. <https://doi.org/10.1007/s11336-012-9301-5>
- Zhang, Z., Wang, L., & Tong, X. (2015). Mediation analysis with missing data through multiple imputation and bootstrap. In *Quantitative psychology research* (pp. 341–355). Springer International Publishing. [https://doi.org/10.1007/978-3-319-19977-1\\_24](https://doi.org/10.1007/978-3-319-19977-1_24)