Session Info

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Session

```
sessionInfo()

#> R version 4.4.1 (2024-06-14)
#> Platform: x86_64-pc-linux-gnu
#> Running under: Ubuntu 22.04.5 LTS
#>
#> Matrix products: default
#> BLAS:   /usr/lib/x86_64-linux-gnu/openblas-pthread/libblas.so.3
#> LAPACK: /usr/lib/x86_64-linux-gnu/openblas-pthread/libopenblasp-r0.3.20.so;  LAPACK version 3.10.
#>
#> locale:
#>  [1] LC_CTYPE=en_US.UTF-8       LC_NUMERIC=C
#>  [3] LC_TIME=en_US.UTF-8        LC_COLLATE=en_US.UTF-8
#>  [5] LC_MONETARY=en_US.UTF-8    LC_MESSAGES=en_US.UTF-8
#>  [7] LC_PAPER=en_US.UTF-8       LC_NAME=C
#>  [9] LC_ADDRESS=C               LC_TELEPHONE=C
#> [11] LC_MEASUREMENT=en_US.UTF-8 LC_IDENTIFICATION=C
#>
#> time zone: Etc/UTC
```

```
#> tzcode source: system (glibc)
#>
#> attached base packages:
#> [1] stats     graphics  grDevices utils     datasets  methods   base
#>
#> other attached packages:
#> [1] lavaan_0.6-19      semmcci_1.1.4.9000 rProject_0.0.14
#>
#> loaded via a namespace (and not attached):
#>  [1] httr_1.4.7       cli_3.6.3.9001   knitr_1.49       rlang_1.1.4
#>  [5] xfun_0.49        stringi_1.8.4    highr_0.11       generics_0.1.3
#>  [9] jsonlite_1.8.9   glue_1.8.0       backports_1.5.0  pbivnorm_0.6.0
#> [13] plyr_1.8.9       rprojroot_2.0.4  stats4_4.4.1     RefManageR_1.4.0
#> [17] quadprog_1.5-8   evaluate_1.0.1   lifecycle_1.0.4  stringr_1.5.1
#> [21] compiler_4.4.1   Rcpp_1.0.13-1    timechange_0.3.0 bibtex_0.5.1
#> [25] R6_2.5.1         parallel_4.4.1   mnormt_2.1.1     magrittr_2.0.3
#> [29] tools_4.4.1      lubridate_1.9.4  xml2_1.3.6
```

Packages

```
unname(installed.packages()[, 1])

#>   [1] "Amelia"            "bmemLavaan"        "mi"
#>   [4] "rProject"          "rsem"              "sem"
#>   [7] "semmcci"           "abind"             "arm"
#>  [10] "arrow"             "ash"               "AsioHeaders"
#>  [13] "askpass"           "assertthat"        "backports"
```

```
#>  [16] "base64enc"          "betaDelta"          "betaMC"
#>  [19] "betaNB"             "betaSandwich"       "BH"
#>  [22] "bibtex"             "BiocManager"        "bit"
#>  [25] "bit64"              "bitops"             "blob"
#>  [28] "brew"               "brio"               "broom"
#>  [31] "bslib"              "cachem"             "callr"
#>  [34] "car"                "caracas"            "carData"
#>  [37] "cellranger"         "cffr"               "checkmate"
#>  [40] "cli"                "clipr"              "clock"
#>  [43] "clusterGeneration" "coda"               "cOde"
#>  [46] "collections"        "colorspace"         "commonmark"
#>  [49] "conflicted"         "corpcor"            "covr"
#>  [52] "cowplot"            "cpp11"              "crayon"
#>  [55] "credentials"        "crosstalk"          "cTMed"
#>  [58] "ctsem"              "curl"               "cyclocomp"
#>  [61] "data.table"         "DBI"                "dbplyr"
#>  [64] "Deriv"              "desc"               "deSolve"
#>  [67] "devtools"           "diagram"            "dials"
#>  [70] "DiceDesign"         "diffobj"            "digest"
#>  [73] "distributional"     "distro"             "doBy"
#>  [76] "docopt"             "doFuture"           "downlit"
#>  [79] "dplyr"              "DT"                 "dtplyr"
#>  [82] "duckdb"             "dynr"               "dynUtils"
#>  [85] "ellipse"            "ellipsis"           "evaluate"
#>  [88] "expm"               "fansi"              "farver"
#>  [91] "fastDummies"        "fastmap"            "fclust"
#>  [94] "fda"                "fdrtool"            "fds"
```

```
#>  [97] "fitCTVARMx"        "fitDTVARMx"        "FNN"
#> [100] "fontawesome"       "forcats"           "foreach"
#> [103] "Formula"           "fs"                "fst"
#> [106] "fstcore"           "furrr"             "future"
#> [109] "future.apply"      "gargle"            "generics"
#> [112] "gert"              "ggplot2"           "ggrepel"
#> [115] "gh"                "gitcreds"          "glasso"
#> [118] "glmnet"            "globals"           "glue"
#> [121] "googledrive"       "googlesheets4"     "gower"
#> [124] "GPArotation"       "GPfit"             "graphicalVAR"
#> [127] "gridExtra"         "gsubfn"            "gtable"
#> [130] "gtools"            "hardhat"           "haven"
#> [133] "hdrcde"            "here"              "highr"
#> [136] "Hmisc"             "hms"               "htmlTable"
#> [139] "htmltools"         "htmlwidgets"       "httpgd"
#> [142] "httpuv"            "httr"              "httr2"
#> [145] "ids"               "ifaTools"          "igraph"
#> [148] "infer"             "ini"               "inline"
#> [151] "ipred"             "isoband"           "iterators"
#> [154] "jomo"              "jpeg"              "jquerylib"
#> [157] "jsonlite"          "jsonvalidate"      "kernlab"
#> [160] "knitr"             "ks"                "labeling"
#> [163] "Lahman"            "languageserver"    "later"
#> [166] "latex2exp"         "lava"              "lavaan"
#> [169] "lazyeval"          "lhs"               "lifecycle"
#> [172] "lintr"             "listenv"           "littler"
#> [175] "lme4"              "locfit"            "longMI"
```

```
#> [178] "loo"              "lubridate"        "magick"
#> [181] "magrittr"         "markdown"         "MatrixModels"
#> [184] "matrixStats"      "mclust"           "memoise"
#> [187] "metaSEM"          "metaVAR"          "mice"
#> [190] "microbenchmark"   "mime"             "miniUI"
#> [193] "minqa"            "mitml"            "mize"
#> [196] "mlVAR"            "mnormt"           "modeldata"
#> [199] "modelenv"         "modelr"           "MplusAutomation"
#> [202] "multicool"        "munsell"          "mvtnorm"
#> [205] "nloptr"           "numDeriv"         "nycflights13"
#> [208] "OpenMx"           "openssl"          "ordinal"
#> [211] "pan"              "pander"           "parallelly"
#> [214] "parsnip"          "patchwork"        "pbapply"
#> [217] "pbivnorm"         "pbkrtest"         "pcaPP"
#> [220] "pdftools"         "pillar"           "pkgbuild"
#> [223] "pkgconfig"        "pkgdown"          "pkgload"
#> [226] "plogr"            "plyr"             "png"
#> [229] "posterior"        "pracma"           "praise"
#> [232] "prettyunits"      "printr"           "processx"
#> [235] "prodlim"          "profvis"          "progress"
#> [238] "progressr"        "promises"         "proto"
#> [241] "ps"               "psych"            "purrr"
#> [244] "qgraph"           "qpdf"             "quadprog"
#> [247] "quantreg"         "quarto"           "QuickJSR"
#> [250] "R.cache"          "R.methodsS3"      "R.oo"
#> [253] "R.utils"          "R6"               "ragg"
#> [256] "rainbow"          "rappdirs"         "rbibutils"
```

```
#> [259] "rcmdcheck"         "RColorBrewer"      "Rcpp"
#> [262] "RcppArmadillo"     "RcppEigen"         "RcppGSL"
#> [265] "RcppParallel"      "RcppTOML"          "RCurl"
#> [268] "Rdpack"            "readr"             "readxl"
#> [271] "recipes"           "RefManageR"        "rematch"
#> [274] "rematch2"          "remotes"           "reprex"
#> [277] "reshape2"          "reticulate"        "rex"
#> [280] "rhub"              "rjags"             "rlang"
#> [283] "RMariaDB"          "rmarkdown"         "roxygen2"
#> [286] "rpf"               "RPostgres"         "rProject"
#> [289] "rprojroot"         "rsample"           "RSQLite"
#> [292] "rstan"             "rstantools"        "rstudioapi"
#> [295] "rversions"         "rvest"             "Ryacas"
#> [298] "sass"              "scales"            "selectr"
#> [301] "semlbci"           "semmcci"           "sessioninfo"
#> [304] "sfd"               "shape"             "shiny"
#> [307] "simStateSpace"     "slider"            "snow"
#> [310] "snowfall"          "sourcetools"       "SparseM"
#> [313] "SQUAREM"           "StanHeaders"       "statmod"
#> [316] "stringi"           "stringr"           "styler"
#> [319] "symSEM"            "sys"               "systemfonts"
#> [322] "tensorA"           "testthat"          "texreg"
#> [325] "textshaping"       "tibble"            "tidymodels"
#> [328] "tidyr"             "tidyselect"        "tidyverse"
#> [331] "timechange"        "timeDate"          "tinytex"
#> [334] "tune"              "tzdb"              "ucminf"
#> [337] "unigd"             "urlchecker"        "usethis"
```

```
#> [340] "utf8"            "uuid"            "V8"
#> [343] "vctrs"           "viridis"         "viridisLite"
#> [346] "vroom"           "waldo"           "warp"
#> [349] "whisker"         "whoami"          "withr"
#> [352] "workflows"       "workflowsets"    "xfun"
#> [355] "xml2"            "xmlparsedata"    "xopen"
#> [358] "xtable"          "yaml"            "yardstick"
#> [361] "zip"             "base"            "boot"
#> [364] "class"           "cluster"         "codetools"
#> [367] "compiler"        "datasets"        "foreign"
#> [370] "graphics"        "grDevices"       "grid"
#> [373] "KernSmooth"      "lattice"         "MASS"
#> [376] "Matrix"          "methods"         "mgcv"
#> [379] "nlme"            "nnet"            "parallel"
#> [382] "rpart"           "spatial"         "splines"
#> [385] "stats"           "stats4"          "survival"
#> [388] "tcltk"           "tools"           "utils"
```

References

Pesigan, I. J. A., & Cheung, S. F. (2023). Monte Carlo confidence intervals for the indirect effect with missing data. *Behavior Research Methods*, *56*(3), 1678–1696. https://doi.org/10.3758/s13428-023-02114-4

R Core Team. (2024). *R: A language and environment for statistical computing*. R Foundation for Statistical Computing. Vienna, Austria. https://www.R-project.org/