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 22.04.4 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] rProject_0.0.13
#>
#> loaded via a namespace (and not attached):
#>  [1] backports_1.5.0  R6_2.5.1         lubridate_1.9.3  xfun_0.45
#>  [5] magrittr_2.0.3   glue_1.7.0       stringr_1.5.1    knitr_1.47
#>  [9] timechange_0.3.0 generics_0.1.3   lifecycle_1.0.4  xml2_1.3.6
#> [13] cli_3.6.2.9000   bibtex_0.5.1     compiler_4.4.1   highr_0.11
#> [17] rprojroot_2.0.4  plyr_1.8.9       httr_1.4.7       tools_4.4.1
#> [21] evaluate_0.24.0  Rcpp_1.0.12      RefManageR_1.4.0 rlang_1.1.4
#> [25] jsonlite_1.8.8   stringi_1.8.4
```

Packages

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

```
#>   [1] "metaVAR"         "abind"           "arrow"           "ash"
#>   [5] "AsioHeaders"     "askpass"         "assertthat"      "backports"
#>   [9] "base64enc"       "betaDelta"       "betaMC"          "betaNB"
#>  [13] "betaSandwich"    "BH"              "bibtex"          "BiocManager"
#>  [17] "bit"             "bit64"           "bitops"          "blob"
#>  [21] "brew"            "brio"            "broom"           "bslib"
```

```
#>  [25] "cachem"          "callr"          "car"            "caracas"
#>  [29] "carData"         "cellranger"     "cffr"           "checkmate"
#>  [33] "cli"             "clipr"          "clock"          "coda"
#>  [37] "cOde"            "collections"    "colorspace"     "commonmark"
#>  [41] "conflicted"      "corpcor"        "covr"           "cowplot"
#>  [45] "cpp11"           "crayon"         "credentials"    "crosstalk"
#>  [49] "cTMed"           "ctsem"          "curl"           "cyclocomp"
#>  [53] "data.table"      "DBI"            "dbplyr"         "Deriv"
#>  [57] "desc"            "deSolve"        "devtools"       "diagram"
#>  [61] "dials"           "DiceDesign"     "diffobj"        "digest"
#>  [65] "distributional"  "distro"         "doBy"           "docopt"
#>  [69] "doFuture"        "downlit"        "dplyr"          "DT"
#>  [73] "dtplyr"          "duckdb"         "dynr"           "dynUtils"
#>  [77] "ellipse"         "ellipsis"       "evaluate"       "expm"
#>  [81] "fansi"           "farver"         "fastDummies"    "fastmap"
#>  [85] "fclust"          "fda"            "fdrtool"        "fds"
#>  [89] "FNN"             "fontawesome"    "forcats"        "foreach"
#>  [93] "Formula"         "fs"             "fst"            "fstcore"
#>  [97] "furrr"           "future"         "future.apply"   "gargle"
#> [101] "generics"        "gert"           "ggplot2"        "ggrepel"
#> [105] "gh"              "gitcreds"       "glasso"         "glmnet"
#> [109] "globals"         "glue"           "googledrive"    "googlesheets4"
#> [113] "gower"           "GPfit"          "gridExtra"      "gsubfn"
#> [117] "gtable"          "gtools"         "hardhat"        "haven"
#> [121] "hdrcde"          "here"           "highr"          "Hmisc"
#> [125] "hms"             "htmlTable"      "htmltools"      "htmlwidgets"
#> [129] "httpgd"          "httpuv"         "httr"           "httr2"
```

```
#> [133] "ids"             "ifaTools"        "igraph"          "infer"
#> [137] "ini"             "inline"          "ipred"           "isoband"
#> [141] "iterators"       "jomo"            "jpeg"            "jquerylib"
#> [145] "jsonlite"        "jsonvalidate"    "kernlab"         "knitr"
#> [149] "ks"              "labeling"        "Lahman"          "languageserver"
#> [153] "later"           "latex2exp"       "lava"            "lavaan"
#> [157] "lazyeval"        "lhs"             "lifecycle"       "lintr"
#> [161] "listenv"         "littler"         "lme4"            "locfit"
#> [165] "longMI"          "loo"             "lubridate"       "magick"
#> [169] "magrittr"        "markdown"        "MatrixModels"    "matrixStats"
#> [173] "mclust"          "memoise"         "metaSEM"         "mice"
#> [177] "microbenchmark"  "mime"            "miniUI"          "minqa"
#> [181] "mitml"           "mize"            "mnormt"          "modeldata"
#> [185] "modelenv"        "modelr"          "MplusAutomation" "multicool"
#> [189] "munsell"         "mvtnorm"         "nloptr"          "numDeriv"
#> [193] "nycflights13"    "OpenMx"          "openssl"         "ordinal"
#> [197] "pan"             "pander"          "parallelly"      "parsnip"
#> [201] "patchwork"       "pbapply"         "pbivnorm"        "pbkrtest"
#> [205] "pcaPP"           "pdftools"        "pillar"          "pkgbuild"
#> [209] "pkgconfig"       "pkgdown"         "pkgload"         "plogr"
#> [213] "plyr"            "png"             "posterior"       "pracma"
#> [217] "praise"          "prettyunits"     "printr"          "processx"
#> [221] "prodlim"         "profvis"         "progress"        "progressr"
#> [225] "promises"        "proto"           "ps"              "psych"
#> [229] "purrr"           "qgraph"          "qpdf"            "quadprog"
#> [233] "quantreg"        "quarto"          "QuickJSR"        "R.cache"
#> [237] "R.methodsS3"     "R.oo"            "R.utils"         "R6"
```

```
#> [241] "ragg"           "rainbow"        "rappdirs"       "rbibutils"
#> [245] "rcmdcheck"      "RColorBrewer"   "Rcpp"           "RcppArmadillo"
#> [249] "RcppEigen"      "RcppGSL"        "RcppParallel"   "RcppTOML"
#> [253] "RCurl"          "Rdpack"         "readr"          "readxl"
#> [257] "recipes"        "RefManageR"     "rematch"        "rematch2"
#> [261] "remotes"        "reprex"         "reshape2"       "reticulate"
#> [265] "rex"            "rhub"           "rlang"          "RMariaDB"
#> [269] "rmarkdown"      "roxygen2"       "rpf"            "RPostgres"
#> [273] "rProject"       "rprojroot"      "rsample"        "RSQLite"
#> [277] "rstan"          "rstantools"     "rstudioapi"     "rversions"
#> [281] "rvest"          "Ryacas"         "sass"           "scales"
#> [285] "selectr"        "semlbci"        "semmcci"        "sessioninfo"
#> [289] "shape"          "shiny"          "simStateSpace"  "slider"
#> [293] "snow"           "snowfall"       "sourcetools"    "SparseM"
#> [297] "SQUAREM"        "StanHeaders"    "statmod"        "stringi"
#> [301] "stringr"        "styler"         "symSEM"         "sys"
#> [305] "systemfonts"    "tensorA"        "testthat"       "texreg"
#> [309] "textshaping"    "tibble"         "tidymodels"     "tidyr"
#> [313] "tidyselect"     "tidyverse"      "timechange"     "timeDate"
#> [317] "tinytex"        "tune"           "tzdb"           "ucminf"
#> [321] "unigd"          "urlchecker"     "usethis"        "utf8"
#> [325] "uuid"           "V8"             "vctrs"          "viridis"
#> [329] "viridisLite"    "vroom"          "waldo"          "warp"
#> [333] "whisker"        "whoami"         "withr"          "workflows"
#> [337] "workflowsets"   "xfun"           "xml2"           "xmlparsedata"
#> [341] "xopen"          "xtable"         "yaml"           "yardstick"
#> [345] "zip"            "base"           "boot"           "class"
```

```
#> [349] "cluster"         "codetools"       "compiler"        "datasets"
#> [353] "foreign"         "graphics"        "grDevices"       "grid"
#> [357] "KernSmooth"      "lattice"         "MASS"            "Matrix"
#> [361] "methods"         "mgcv"            "nlme"            "nnet"
#> [365] "parallel"        "rpart"           "spatial"         "splines"
#> [369] "stats"           "stats4"          "survival"        "tcltk"
#> [373] "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*. https://doi.org/10.3758/s13428-023-02114-4

R Core Team. (2023). *R: A language and environment for statistical computing*. R Foundation for Statistical Computing. Vienna, Austria. https://www.R-project.org/