Session Info

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Session

```
sessionInfo()

#> R version 4.4.2 (2024-10-31)
#> Platform: x86_64-pc-linux-gnu
#> Running under: Ubuntu 24.04.1 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-r0.3.26.so;  LAPACK version 3.12.
#>
#> 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_0.0.17
#>
#> loaded via a namespace (and not attached):
#>  [1] backports_1.5.0  R6_2.5.1         lubridate_1.9.4  xfun_0.50
#>  [5] magrittr_2.0.3   glue_1.8.0       stringr_1.5.1    knitr_1.49
#>  [9] timechange_0.3.0 generics_0.1.3   lifecycle_1.0.4  xml2_1.3.6
#> [13] cli_3.6.3.9002   bibtex_0.5.1     compiler_4.4.2   highr_0.11
#> [17] rprojroot_2.0.4  plyr_1.8.9       httr_1.4.7       tools_4.4.2
#> [21] evaluate_1.0.3   Rcpp_1.0.13-1    RefManageR_1.4.0 rlang_1.1.4
#> [25] jsonlite_1.8.9   stringi_1.8.4
```

Packages

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

```
#>   [1] "betaDelta"         "abind"             "arm"
#>   [4] "arrow"             "ash"               "AsioHeaders"
#>   [7] "askpass"           "assertthat"        "backports"
#>  [10] "base64enc"         "betaDelta"         "betaMC"
#>  [13] "betaNB"            "betaSandwich"      "BH"
#>  [16] "bibtex"            "BiocManager"       "bit"
```

```
#>  [19] "bit64"             "bitops"            "blob"
#>  [22] "brew"              "brio"              "broom"
#>  [25] "bslib"             "cachem"            "callr"
#>  [28] "car"               "caracas"           "carData"
#>  [31] "cellranger"        "cffr"              "checkmate"
#>  [34] "cli"               "clipr"             "clock"
#>  [37] "clusterGeneration" "coda"              "cOde"
#>  [40] "collections"       "colorspace"        "commonmark"
#>  [43] "conflicted"        "corpcor"           "covr"
#>  [46] "cowplot"           "cpp11"             "crayon"
#>  [49] "credentials"       "crosstalk"         "cTMed"
#>  [52] "ctsem"             "curl"              "cyclocomp"
#>  [55] "data.table"        "DBI"               "dbplyr"
#>  [58] "Deriv"             "desc"              "deSolve"
#>  [61] "devtools"          "diagram"           "dials"
#>  [64] "DiceDesign"        "diffobj"           "digest"
#>  [67] "distributional"    "distro"            "doBy"
#>  [70] "docopt"            "doFuture"          "downlit"
#>  [73] "dplyr"             "DT"                "dtplyr"
#>  [76] "dynr"              "dynUtils"          "ellipse"
#>  [79] "ellipsis"          "evaluate"          "expm"
#>  [82] "fansi"             "farver"            "fastDummies"
#>  [85] "fastmap"           "fclust"            "fda"
#>  [88] "fdrtool"           "fds"               "fitCTVARMx"
#>  [91] "fitDTVARMx"        "FNN"               "fontawesome"
#>  [94] "forcats"           "foreach"           "Formula"
#>  [97] "fs"                "fst"               "fstcore"
```

```
#> [100] "furrr"            "future"           "future.apply"
#> [103] "gargle"           "generics"         "gert"
#> [106] "ggplot2"          "ggrepel"          "gh"
#> [109] "gitcreds"         "glasso"           "glmnet"
#> [112] "globals"          "glue"             "googledrive"
#> [115] "googlesheets4"    "gower"            "GPArotation"
#> [118] "GPfit"            "graphicalVAR"     "gridExtra"
#> [121] "gsubfn"           "gtable"           "gtools"
#> [124] "hardhat"          "haven"            "hdrcde"
#> [127] "here"             "highr"            "Hmisc"
#> [130] "hms"              "htmlTable"        "htmltools"
#> [133] "htmlwidgets"      "httpgd"           "httpuv"
#> [136] "httr"             "httr2"            "ids"
#> [139] "ifaTools"         "igraph"           "infer"
#> [142] "ini"              "inline"           "ipred"
#> [145] "isoband"          "iterators"        "jomo"
#> [148] "jpeg"             "jquerylib"        "jsonlite"
#> [151] "jsonvalidate"     "kernlab"          "knitr"
#> [154] "ks"               "labeling"         "Lahman"
#> [157] "languageserver"   "later"            "latex2exp"
#> [160] "lava"             "lavaan"           "lazyeval"
#> [163] "lhs"              "lifecycle"        "lintr"
#> [166] "listenv"          "littler"          "lme4"
#> [169] "locfit"           "longMI"           "loo"
#> [172] "lubridate"        "magick"           "magrittr"
#> [175] "markdown"         "MatrixModels"     "matrixStats"
#> [178] "mclust"           "memoise"          "metaSEM"
```

```
#> [181] "metaVAR"           "mice"              "microbenchmark"
#> [184] "mime"              "miniUI"            "minqa"
#> [187] "mitml"             "mize"              "mlVAR"
#> [190] "mnormt"            "modeldata"         "modelenv"
#> [193] "modelr"            "MplusAutomation"   "multicool"
#> [196] "munsell"           "mvtnorm"           "nloptr"
#> [199] "numDeriv"          "nycflights13"      "OpenMx"
#> [202] "openssl"           "ordinal"           "pan"
#> [205] "pander"            "parallelly"        "parsnip"
#> [208] "patchwork"         "pbapply"           "pbivnorm"
#> [211] "pbkrtest"          "pcaPP"             "pdftools"
#> [214] "pillar"            "pkgbuild"          "pkgconfig"
#> [217] "pkgdown"           "pkgload"           "plogr"
#> [220] "plyr"              "png"               "posterior"
#> [223] "pracma"            "praise"            "prettyunits"
#> [226] "printr"            "processx"          "prodlim"
#> [229] "profvis"           "progress"          "progressr"
#> [232] "promises"          "proto"             "ps"
#> [235] "psych"             "purrr"             "qgraph"
#> [238] "qpdf"              "quadprog"          "quantreg"
#> [241] "quarto"            "QuickJSR"          "R.cache"
#> [244] "R.methodsS3"       "R.oo"              "R.utils"
#> [247] "R6"                "ragg"              "rainbow"
#> [250] "rappdirs"          "rbibutils"         "rcmdcheck"
#> [253] "RColorBrewer"      "Rcpp"              "RcppArmadillo"
#> [256] "RcppEigen"         "RcppGSL"           "RcppParallel"
#> [259] "RcppTOML"          "RCurl"             "Rdpack"
```

```
#> [262] "readr"            "readxl"           "recipes"
#> [265] "RefManageR"       "reformulas"       "rematch"
#> [268] "rematch2"         "remotes"          "reprex"
#> [271] "reshape2"         "reticulate"       "rex"
#> [274] "rhub"             "rjags"            "rlang"
#> [277] "RMariaDB"         "rmarkdown"        "roxygen2"
#> [280] "rpf"              "RPostgres"        "rProject"
#> [283] "rprojroot"        "rsample"          "RSQLite"
#> [286] "rstan"            "rstantools"       "rstudioapi"
#> [289] "rversions"        "rvest"            "Ryacas"
#> [292] "sass"             "scales"           "selectr"
#> [295] "semlbci"          "semmcci"          "sessioninfo"
#> [298] "sfd"              "shape"            "shiny"
#> [301] "simStateSpace"    "slider"           "snow"
#> [304] "snowfall"         "sourcetools"      "SparseM"
#> [307] "SQUAREM"          "StanHeaders"      "statmod"
#> [310] "stringi"          "stringr"          "styler"
#> [313] "symSEM"           "sys"              "systemfonts"
#> [316] "tensorA"          "testthat"         "texreg"
#> [319] "textshaping"      "tibble"           "tidymodels"
#> [322] "tidyr"            "tidyselect"       "tidyverse"
#> [325] "timechange"       "timeDate"         "tinytex"
#> [328] "tune"             "tzdb"             "ucminf"
#> [331] "unigd"            "urlchecker"       "usethis"
#> [334] "utf8"             "uuid"             "V8"
#> [337] "vctrs"            "viridis"          "viridisLite"
#> [340] "vroom"            "waldo"            "warp"
```

```
#> [343] "whisker"           "whoami"            "withr"
#> [346] "workflows"         "workflowsets"      "xfun"
#> [349] "xml2"              "xmlparsedata"      "xopen"
#> [352] "xtable"            "yaml"              "yardstick"
#> [355] "zip"               "base"              "boot"
#> [358] "class"             "cluster"           "codetools"
#> [361] "compiler"          "datasets"          "foreign"
#> [364] "graphics"          "grDevices"         "grid"
#> [367] "KernSmooth"        "lattice"           "MASS"
#> [370] "Matrix"            "methods"           "mgcv"
#> [373] "nlme"              "nnet"              "parallel"
#> [376] "rpart"             "spatial"           "splines"
#> [379] "stats"             "stats4"            "survival"
#> [382] "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/