Session Info

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Session

```
sessionInfo()

#> R version 4.4.0 (2024-04-24)
#> 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_4.4.0   highr_0.11
#> [17] rprojroot_2.0.4  plyr_1.8.9       httr_1.4.7       tools_4.4.0
#> [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] "cli"             "cTMed"           "downlit"         "evaluate"
#>   [5] "rlang"           "rProject"        "tinytex"         "xfun"
#>   [9] "abind"           "arrow"           "ash"             "AsioHeaders"
#>  [13] "askpass"         "assertthat"      "backports"       "base64enc"
#>  [17] "betaDelta"       "betaMC"          "betaNB"          "betaSandwich"
#>  [21] "BH"              "bibtex"          "BiocManager"     "bit"
```

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#>  [25] "bit64"          "bitops"          "blob"            "brew"
#>  [29] "brio"           "broom"           "bslib"           "cachem"
#>  [33] "callr"          "car"             "caracas"         "carData"
#>  [37] "cellranger"     "cffr"            "checkmate"       "cli"
#>  [41] "clipr"          "clock"           "coda"            "cOde"
#>  [45] "collections"    "colorspace"      "commonmark"      "conflicted"
#>  [49] "corpcor"        "covr"            "cowplot"         "cpp11"
#>  [53] "crayon"         "credentials"     "crosstalk"       "cTMed"
#>  [57] "ctsem"          "curl"            "cyclocomp"       "data.table"
#>  [61] "DBI"            "dbplyr"          "Deriv"           "desc"
#>  [65] "deSolve"        "devtools"        "diagram"         "dials"
#>  [69] "DiceDesign"     "diffobj"         "digest"          "distributional"
#>  [73] "distro"         "doBy"            "docopt"          "doFuture"
#>  [77] "downlit"        "dplyr"           "DT"              "dtplyr"
#>  [81] "duckdb"         "dynr"            "dynUtils"        "ellipse"
#>  [85] "ellipsis"       "evaluate"        "expm"            "fansi"
#>  [89] "farver"         "fastDummies"     "fastmap"         "fclust"
#>  [93] "fda"            "fdrtool"         "fds"             "FNN"
#>  [97] "fontawesome"    "forcats"         "foreach"         "Formula"
#> [101] "fs"             "fst"             "fstcore"         "furrr"
#> [105] "future"         "future.apply"    "gargle"          "generics"
#> [109] "gert"           "ggplot2"         "ggrepel"         "gh"
#> [113] "gitcreds"       "glasso"          "glmnet"          "globals"
#> [117] "glue"           "googledrive"     "googlesheets4"   "gower"
#> [121] "GPfit"          "gridExtra"       "gsubfn"          "gtable"
#> [125] "gtools"         "hardhat"         "haven"           "hdrcde"
#> [129] "here"           "highr"           "Hmisc"           "hms"
```

```
#> [133] "htmlTable"       "htmltools"       "htmlwidgets"     "httpgd"
#> [137] "httpuv"          "httr"            "httr2"           "ids"
#> [141] "ifaTools"        "igraph"          "infer"           "ini"
#> [145] "inline"          "ipred"           "isoband"         "iterators"
#> [149] "jomo"            "jpeg"            "jquerylib"       "jsonlite"
#> [153] "jsonvalidate"    "kernlab"         "knitr"           "ks"
#> [157] "labeling"        "Lahman"          "languageserver"  "later"
#> [161] "latex2exp"       "lava"            "lavaan"          "lazyeval"
#> [165] "lhs"             "lifecycle"       "lintr"           "listenv"
#> [169] "littler"         "lme4"            "locfit"          "longMI"
#> [173] "loo"             "lubridate"       "magick"          "magrittr"
#> [177] "markdown"        "MatrixModels"    "matrixStats"     "mclust"
#> [181] "memoise"         "metaSEM"         "mice"            "microbenchmark"
#> [185] "mime"            "miniUI"          "minqa"           "mitml"
#> [189] "mize"            "mnormt"          "modeldata"       "modelenv"
#> [193] "modelr"          "MplusAutomation" "multicool"       "munsell"
#> [197] "mvtnorm"         "nloptr"          "numDeriv"        "nycflights13"
#> [201] "OpenMx"          "openssl"         "ordinal"         "pan"
#> [205] "pander"          "parallelly"      "parsnip"         "patchwork"
#> [209] "pbapply"         "pbivnorm"        "pbkrtest"        "pcaPP"
#> [213] "pdftools"        "pillar"          "pkgbuild"        "pkgconfig"
#> [217] "pkgdown"         "pkgload"         "plogr"           "plyr"
#> [221] "png"             "posterior"       "pracma"          "praise"
#> [225] "prettyunits"     "printr"          "processx"        "prodlim"
#> [229] "profvis"         "progress"        "progressr"       "promises"
#> [233] "proto"           "ps"              "psych"           "purrr"
#> [237] "qgraph"          "qpdf"            "quadprog"        "quantreg"
```

```
#> [241] "quarto"          "QuickJSR"        "R.cache"         "R.methodsS3"
#> [245] "R.oo"            "R.utils"         "R6"              "ragg"
#> [249] "rainbow"         "rappdirs"        "rbibutils"       "rcmdcheck"
#> [253] "RColorBrewer"    "Rcpp"            "RcppArmadillo"   "RcppEigen"
#> [257] "RcppGSL"         "RcppParallel"    "RcppTOML"        "RCurl"
#> [261] "Rdpack"          "readr"           "readxl"          "recipes"
#> [265] "RefManageR"      "rematch"         "rematch2"        "remotes"
#> [269] "reprex"          "reshape2"        "reticulate"      "rex"
#> [273] "rhub"            "rlang"           "RMariaDB"        "rmarkdown"
#> [277] "roxygen2"        "rpf"             "RPostgres"       "rProject"
#> [281] "rprojroot"       "rsample"         "RSQLite"         "rstan"
#> [285] "rstantools"      "rstudioapi"      "rversions"       "rvest"
#> [289] "Ryacas"          "sass"            "scales"          "selectr"
#> [293] "semlbci"         "semmcci"         "sessioninfo"     "shape"
#> [297] "shiny"           "simStateSpace"   "slider"          "snow"
#> [301] "snowfall"        "sourcetools"     "SparseM"         "SQUAREM"
#> [305] "StanHeaders"     "statmod"         "stringi"         "stringr"
#> [309] "styler"          "symSEM"          "sys"             "systemfonts"
#> [313] "tensorA"         "testthat"        "texreg"          "textshaping"
#> [317] "tibble"          "tidymodels"      "tidyr"           "tidyselect"
#> [321] "tidyverse"       "timechange"      "timeDate"        "tinytex"
#> [325] "tune"            "tzdb"            "ucminf"          "unigd"
#> [329] "urlchecker"      "usethis"         "utf8"            "uuid"
#> [333] "V8"              "vctrs"           "viridis"         "viridisLite"
#> [337] "vroom"           "waldo"           "warp"            "whisker"
#> [341] "whoami"          "withr"           "workflows"       "workflowsets"
#> [345] "xfun"            "xml2"            "xmlparsedata"    "xopen"
```

```
#> [349] "xtable"          "yaml"            "yardstick"       "zip"
#> [353] "base"            "boot"            "class"           "cluster"
#> [357] "codetools"       "compiler"        "datasets"        "foreign"
#> [361] "graphics"        "grDevices"       "grid"            "KernSmooth"
#> [365] "lattice"         "MASS"            "Matrix"          "methods"
#> [369] "mgcv"            "nlme"            "nnet"            "parallel"
#> [373] "rpart"           "spatial"         "splines"         "stats"
#> [377] "stats4"          "survival"        "tcltk"           "tools"
#> [381] "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/