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_3.6.3.9000   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] "betaSandwich"    "pkgload"         "ps"              "roxygen2"
#>   [5] "rProject"        "tinytex"         "yaml"            "abind"
#>   [9] "arrow"           "ash"             "AsioHeaders"     "askpass"
#>  [13] "assertthat"      "backports"       "base64enc"       "betaDelta"
#>  [17] "betaMC"          "betaNB"          "betaSandwich"    "BH"
#>  [21] "bibtex"          "BiocManager"     "bit"             "bit64"
```

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

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

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

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