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_0.0.18
#>
#> 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_1.0.14      RefManageR_1.4.0 rlang_1.1.5
#> [25] jsonlite_1.8.9   stringi_1.8.4
```

Packages

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

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

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

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

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

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

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