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 22.04.5 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_0.0.14
#>
#> loaded via a namespace (and not attached):
#>  [1] backports_1.5.0  R6_2.5.1         lubridate_1.9.4  xfun_0.49
#>  [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_3.6.3.9001   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_1.0.1   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] "cTMed"             "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] "duckdb"            "dynr"              "dynUtils"
#>  [79] "ellipse"           "ellipsis"          "evaluate"
#>  [82] "expm"              "fansi"             "farver"
#>  [85] "fastDummies"       "fastmap"           "fclust"
#>  [88] "fda"               "fdrtool"           "fds"
#>  [91] "fitCTVARMx"        "fitDTVARMx"        "FNN"
#>  [94] "fontawesome"       "forcats"           "foreach"
#>  [97] "Formula"           "fs"                "fst"
```

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

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

```
#> [262] "Rdpack"           "readr"           "readxl"
#> [265] "recipes"          "RefManageR"      "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/