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_0.0.14
#>
#> loaded via a namespace (and not attached):
#>  [1] backports_1.5.0  R6_2.5.1         lubridate_1.9.3  xfun_0.47
#>  [5] magrittr_2.0.3   glue_1.7.0       stringr_1.5.1    knitr_1.48
#>  [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_1.0.13      RefManageR_1.4.0 rlang_1.1.4
#> [25] jsonlite_1.8.8   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] "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/