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_0.48
#>  [5] magrittr_2.0.3   glue_1.8.0       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_1.0.1   Rcpp_1.0.13      RefManageR_1.4.0 rlang_1.1.4
#> [25] jsonlite_1.8.9   stringi_1.8.4
```

Packages

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

#>   [1] "Amelia"            "askpass"           "betaMC"
#>   [4] "cli"               "commonmark"        "credentials"
#>   [7] "curl"              "devtools"          "evaluate"
#>  [10] "gert"              "glue"              "httr2"
#>  [13] "jsonlite"          "openssl"           "pkgdown"
#>  [16] "profvis"           "ps"                "rProject"
```

```
#>  [19] "rstudioapi"        "sys"               "tinytex"
#>  [22] "V8"                "xfun"              "abind"
#>  [25] "arm"               "arrow"             "ash"
#>  [28] "AsioHeaders"       "askpass"           "assertthat"
#>  [31] "backports"         "base64enc"         "betaDelta"
#>  [34] "betaMC"            "betaNB"            "betaSandwich"
#>  [37] "BH"                "bibtex"            "BiocManager"
#>  [40] "bit"               "bit64"             "bitops"
#>  [43] "blob"              "brew"              "brio"
#>  [46] "broom"             "bslib"             "cachem"
#>  [49] "callr"             "car"               "caracas"
#>  [52] "carData"           "cellranger"        "cffr"
#>  [55] "checkmate"         "cli"               "clipr"
#>  [58] "clock"             "clusterGeneration" "coda"
#>  [61] "cOde"              "collections"       "colorspace"
#>  [64] "commonmark"        "conflicted"        "corpcor"
#>  [67] "covr"              "cowplot"           "cpp11"
#>  [70] "crayon"            "credentials"       "crosstalk"
#>  [73] "cTMed"             "ctsem"             "curl"
#>  [76] "cyclocomp"         "data.table"        "DBI"
#>  [79] "dbplyr"            "Deriv"             "desc"
#>  [82] "deSolve"           "devtools"          "diagram"
#>  [85] "dials"             "DiceDesign"        "diffobj"
#>  [88] "digest"            "distributional"    "distro"
#>  [91] "doBy"              "docopt"            "doFuture"
#>  [94] "downlit"           "dplyr"             "DT"
#>  [97] "dtplyr"            "duckdb"            "dynr"
```

```
#> [100] "dynUtils"          "ellipse"           "ellipsis"
#> [103] "evaluate"          "expm"              "fansi"
#> [106] "farver"            "fastDummies"       "fastmap"
#> [109] "fclust"            "fda"               "fdrtool"
#> [112] "fds"               "fitCTVARMx"        "fitDTVARMx"
#> [115] "FNN"               "fontawesome"       "forcats"
#> [118] "foreach"           "Formula"           "fs"
#> [121] "fst"               "fstcore"           "furrr"
#> [124] "future"            "future.apply"      "gargle"
#> [127] "generics"          "gert"              "ggplot2"
#> [130] "ggrepel"           "gh"                "gitcreds"
#> [133] "glasso"            "glmnet"            "globals"
#> [136] "glue"              "googledrive"       "googlesheets4"
#> [139] "gower"             "GPArotation"       "GPfit"
#> [142] "graphicalVAR"      "gridExtra"         "gsubfn"
#> [145] "gtable"            "gtools"            "hardhat"
#> [148] "haven"             "hdrcde"            "here"
#> [151] "highr"             "Hmisc"             "hms"
#> [154] "htmlTable"         "htmltools"         "htmlwidgets"
#> [157] "httpgd"            "httpuv"            "httr"
#> [160] "httr2"             "ids"               "ifaTools"
#> [163] "igraph"            "infer"             "ini"
#> [166] "inline"            "ipred"             "isoband"
#> [169] "iterators"         "jomo"              "jpeg"
#> [172] "jquerylib"         "jsonlite"          "jsonvalidate"
#> [175] "kernlab"           "knitr"             "ks"
#> [178] "labeling"          "Lahman"            "languageserver"
```

```
#> [181] "later"             "latex2exp"         "lava"
#> [184] "lavaan"            "lazyeval"          "lhs"
#> [187] "lifecycle"         "lintr"             "listenv"
#> [190] "littler"           "lme4"              "locfit"
#> [193] "longMI"            "loo"               "lubridate"
#> [196] "magick"            "magrittr"          "markdown"
#> [199] "MatrixModels"      "matrixStats"       "mclust"
#> [202] "memoise"           "metaSEM"           "metaVAR"
#> [205] "mice"              "microbenchmark"    "mime"
#> [208] "miniUI"            "minqa"             "mitml"
#> [211] "mize"              "mlVAR"             "mnormt"
#> [214] "modeldata"         "modelenv"          "modelr"
#> [217] "MplusAutomation"   "multicool"         "munsell"
#> [220] "mvtnorm"           "nloptr"            "numDeriv"
#> [223] "nycflights13"      "OpenMx"            "openssl"
#> [226] "ordinal"           "pan"               "pander"
#> [229] "parallelly"        "parsnip"           "patchwork"
#> [232] "pbapply"           "pbivnorm"          "pbkrtest"
#> [235] "pcaPP"             "pdftools"          "pillar"
#> [238] "pkgbuild"          "pkgconfig"         "pkgdown"
#> [241] "pkgload"           "plogr"             "plyr"
#> [244] "png"               "posterior"         "pracma"
#> [247] "praise"            "prettyunits"       "printr"
#> [250] "processx"          "prodlim"           "profvis"
#> [253] "progress"          "progressr"         "promises"
#> [256] "proto"             "ps"                "psych"
#> [259] "purrr"             "qgraph"            "qpdf"
```

```
#> [262] "quadprog"          "quantreg"          "quarto"
#> [265] "QuickJSR"          "R.cache"           "R.methodsS3"
#> [268] "R.oo"              "R.utils"           "R6"
#> [271] "ragg"              "rainbow"           "rappdirs"
#> [274] "rbibutils"         "rcmdcheck"         "RColorBrewer"
#> [277] "Rcpp"              "RcppArmadillo"     "RcppEigen"
#> [280] "RcppGSL"           "RcppParallel"      "RcppTOML"
#> [283] "RCurl"             "Rdpack"            "readr"
#> [286] "readxl"            "recipes"           "RefManageR"
#> [289] "rematch"           "rematch2"          "remotes"
#> [292] "reprex"            "reshape2"          "reticulate"
#> [295] "rex"               "rhub"              "rjags"
#> [298] "rlang"             "RMariaDB"          "rmarkdown"
#> [301] "roxygen2"          "rpf"               "RPostgres"
#> [304] "rProject"          "rprojroot"         "rsample"
#> [307] "RSQLite"           "rstan"             "rstantools"
#> [310] "rstudioapi"        "rversions"         "rvest"
#> [313] "Ryacas"            "sass"              "scales"
#> [316] "selectr"           "semlbci"           "semmcci"
#> [319] "sessioninfo"       "sfd"               "shape"
#> [322] "shiny"             "simStateSpace"     "slider"
#> [325] "snow"              "snowfall"          "sourcetools"
#> [328] "SparseM"           "SQUAREM"           "StanHeaders"
#> [331] "statmod"           "stringi"           "stringr"
#> [334] "styler"            "symSEM"            "sys"
#> [337] "systemfonts"       "tensorA"           "testthat"
#> [340] "texreg"            "textshaping"       "tibble"
```

```
#> [343] "tidymodels"        "tidyr"             "tidyselect"
#> [346] "tidyverse"         "timechange"        "timeDate"
#> [349] "tinytex"           "tune"              "tzdb"
#> [352] "ucminf"            "unigd"             "urlchecker"
#> [355] "usethis"           "utf8"              "uuid"
#> [358] "V8"                "vctrs"             "viridis"
#> [361] "viridisLite"       "vroom"             "waldo"
#> [364] "warp"              "whisker"           "whoami"
#> [367] "withr"             "workflows"         "workflowsets"
#> [370] "xfun"              "xml2"              "xmlparsedata"
#> [373] "xopen"             "xtable"            "yaml"
#> [376] "yardstick"         "zip"               "base"
#> [379] "boot"              "class"             "cluster"
#> [382] "codetools"         "compiler"          "datasets"
#> [385] "foreign"           "graphics"          "grDevices"
#> [388] "grid"              "KernSmooth"        "lattice"
#> [391] "MASS"              "Matrix"            "methods"
#> [394] "mgcv"              "nlme"              "nnet"
#> [397] "parallel"          "rpart"             "spatial"
#> [400] "splines"           "stats"             "stats4"
#> [403] "survival"          "tcltk"             "tools"
#> [406] "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/