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_0.0.17
#>
#> 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_1.0.13-1    RefManageR_1.4.0 rlang_1.1.4
#> [25] jsonlite_1.8.9   stringi_1.8.4
```

Packages

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

#>   [1] "Amelia"            "betaMC"            "abind"
#>   [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"             "brew"             "brio"
#>  [25] "broom"            "bslib"            "cachem"
#>  [28] "callr"            "car"              "caracas"
#>  [31] "carData"          "cellranger"       "cffr"
#>  [34] "checkmate"        "cli"              "clipr"
#>  [37] "clock"            "clusterGeneration" "coda"
#>  [40] "cOde"             "collections"      "colorspace"
#>  [43] "commonmark"       "conflicted"       "corpcor"
#>  [46] "covr"             "cowplot"          "cpp11"
#>  [49] "crayon"           "credentials"      "crosstalk"
#>  [52] "cTMed"            "ctsem"            "curl"
#>  [55] "cyclocomp"        "data.table"       "DBI"
#>  [58] "dbplyr"           "Deriv"            "desc"
#>  [61] "deSolve"          "devtools"         "diagram"
#>  [64] "dials"            "DiceDesign"       "diffobj"
#>  [67] "digest"           "distributional"   "distro"
#>  [70] "doBy"             "docopt"           "doFuture"
#>  [73] "downlit"          "dplyr"            "DT"
#>  [76] "dtplyr"           "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"       "reformulas"
#> [268] "rematch"          "rematch2"         "remotes"
#> [271] "reprex"           "reshape2"         "reticulate"
#> [274] "rex"              "rhub"             "rjags"
#> [277] "rlang"            "RMariaDB"         "rmarkdown"
#> [280] "roxygen2"         "rpf"              "RPostgres"
#> [283] "rProject"         "rprojroot"        "rsample"
#> [286] "RSQLite"          "rstan"            "rstantools"
#> [289] "rstudioapi"       "rversions"        "rvest"
#> [292] "Ryacas"           "sass"             "scales"
#> [295] "selectr"          "semlbci"          "semmcci"
#> [298] "sessioninfo"      "sfd"              "shape"
#> [301] "shiny"            "simStateSpace"    "slider"
#> [304] "snow"             "snowfall"         "sourcetools"
#> [307] "SparseM"          "SQUAREM"          "StanHeaders"
#> [310] "statmod"          "stringi"          "stringr"
#> [313] "styler"           "symSEM"           "sys"
#> [316] "systemfonts"      "tensorA"          "testthat"
#> [319] "texreg"           "textshaping"      "tibble"
#> [322] "tidymodels"       "tidyr"            "tidyselect"
#> [325] "tidyverse"        "timechange"       "timeDate"
#> [328] "tinytex"          "tune"             "tzdb"
#> [331] "ucminf"           "unigd"            "urlchecker"
#> [334] "usethis"          "utf8"             "uuid"
#> [337] "V8"               "vctrs"            "viridis"
#> [340] "viridisLite"      "vroom"            "waldo"
```

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