Session Info

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Session

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

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

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

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

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

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