

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/libopenblas-p0.3.26.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
```

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#> 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

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Packages

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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"

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#> [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"

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#> [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"

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#> [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"

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#> [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"

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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/>