

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 3.12.0  
#>  
#> 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_0.0.17
#>
#> 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

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Packages

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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"

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#> [19] "bit"           "bit64"         "bitops"
#> [22] "blob"          "brew"          "brio"
#> [25] "broom"         "bslib"         "cachem"
#> [28] "callr"         "car"           "caracas"
#> [31] "carData"       "cellranger"    "cfrfr"
#> [34] "checkmate"     "cli"           "clipr"
#> [37] "clock"         "clusterGeneration" "coda"
#> [40] "c0de"          "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"          "fansib"        "farver"
#> [85] "fastDummies"   "fastmap"       "fclust"
#> [88] "fda"           "fdrtool"       "fds"
#> [91] "fitCTVARMx"    "fitDTVARMx"    "FNN"
#> [94] "fontawesome"   "forcats"       "foreach"
#> [97] "Formula"       "fs"            "fst"

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#> [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] "hdcrcde"          "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"

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#> [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"          "rapports"          "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"

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#> [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/>