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
          / 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_0.0.14
#>
#> 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_3.6.3.9001 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_1.0.1 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] "betaDelta"
                              "abind"
                                                   "arm"
#>
    [4] "arrow"
                              "ash"
                                                   "AsioHeaders"
     [7] "askpass"
                              "assertthat"
                                                   "backports"
#>
    [10] "base64enc"
                                                   "betaMC"
                              "betaDelta"
    [13] "betaNB"
                              "betaSandwich"
                                                   "BH"
    [16] "bibtex"
                              "BiocManager"
                                                   "bit"
```

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

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

#>	[181]	"metaVAR"	"mice"	"microbenchmark"
#>	[184]	"mime"	"miniUI"	"minqa"
#>	[187]	"mitml"	"mize"	"mlVAR"
#>	[190]	"mnormt"	"modeldata"	"modelenv"
#>	[193]	"modelr"	"MplusAutomation"	"multicool"
#>	[196]	"munsell"	"mvtnorm"	"nloptr"
#>	[199]	"numDeriv"	"nycflights13"	"OpenMx"
#>	[202]	"openss1"	"ordinal"	"pan"
#>	[205]	"pander"	"parallelly"	"parsnip"
#>	[208]	"patchwork"	"pbapply"	"pbivnorm"
#>	[211]	"pbkrtest"	"pcaPP"	"pdftools"
#>	[214]	"pillar"	"pkgbuild"	"pkgconfig"
#>	[217]	"pkgdown"	"pkgload"	"plogr"
#>	[220]	"plyr"	"png"	"posterior"
#>	[223]	"pracma"	"praise"	"prettyunits"
#>	[226]	"printr"	"processx"	"prodlim"
#>	[229]	"profvis"	"progress"	"progressr"
#>	[232]	"promises"	"proto"	"ps"
#>	[235]	"psych"	"purrr"	"qgraph"
#>	[238]	"qpdf"	"quadprog"	"quantreg"
#>	[241]	"quarto"	"QuickJSR"	"R.cache"
#>	[244]	"R.methodsS3"	"R.00"	"R.utils"
#>	[247]	"R6"	"ragg"	"rainbow"
#>	[250]	"rappdirs"	"rbibutils"	"rcmdcheck"
#>	[253]	"RColorBrewer"	"Rcpp"	"RcppArmadillo"
#>	[256]	"RcppEigen"	"RcppGSL"	"RcppParallel"
#>	[259]	"RcppTOML"	"RCurl"	"Rdpack"

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

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

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