Session Info

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Session

```
sessionInfo()
#> R version 4.4.1 (2024-06-14)
#> Platform: x86_64-pc-linux-gnu
#> Running under: Ubuntu 22.04.4 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-r0.3.20.so; LAPACK version 3.10
#>
#> 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_0.0.13
#>
#> loaded via a namespace (and not attached):
#> [1] backports_1.5.0 R6_2.5.1
                                       lubridate_1.9.3 xfun_0.45
#> [5] magrittr_2.0.3 glue_1.7.0
                                        stringr_1.5.1 knitr_1.47
#> [9] timechange_0.3.0 generics_0.1.3
                                       lifecycle_1.0.4 xml2_1.3.6
#> [13] cli_3.6.3.9000 bibtex_0.5.1
                                        compiler_4.4.1 highr_0.11
#> [17] rprojroot_2.0.4 plyr_1.8.9
                                        httr_1.4.7
                                                        tools_4.4.1
#> [21] evaluate_0.24.0 Rcpp_1.0.12
                                        RefManageR_1.4.0 rlang_1.1.4
#> [25] jsonlite_1.8.8 stringi_1.8.4
```

Packages

```
unname(installed.packages()[, 1])
     [1] "Amelia"
                                               "pkgload"
                                                                  "ps"
#>
                            "betaMC"
     [5] "roxygen2"
                            "rProject"
                                               "tinytex"
                                                                  "yaml"
     [9] "abind"
                            "arrow"
                                               "ash"
                                                                  "AsioHeaders"
#>
    [13] "askpass"
                                               "backports"
                                                                  "base64enc"
                            "assertthat"
    [17] "betaDelta"
                            "betaMC"
                                               "betaNB"
                                                                  "betaSandwich"
    [21] "BH"
                            "bibtex"
                                               "BiocManager"
                                                                  "bit"
```

#>	[25]	"bit64"	"bitops"	"blob"	"brew"
#>	[29]	"brio"	"broom"	"bslib"	"cachem"
#>	[33]	"callr"	"car"	"caracas"	"carData"
#>	[37]	"cellranger"	"cffr"	"checkmate"	"cli"
#>	[41]	"clipr"	"clock"	"coda"	"cOde"
#>	[45]	"collections"	"colorspace"	"commonmark"	"conflicted"
#>	[49]	"corpcor"	"covr"	"cowplot"	"cpp11"
#>	[53]	"crayon"	"credentials"	"crosstalk"	"cTMed"
#>	[57]	"ctsem"	"curl"	"cyclocomp"	"data.table"
#>	[61]	"DBI"	"dbplyr"	"Deriv"	"desc"
#>	[65]	"deSolve"	"devtools"	"diagram"	"dials"
#>	[69]	"DiceDesign"	"diffobj"	"digest"	"distributional"
#>	[73]	"distro"	"doBy"	"docopt"	"doFuture"
#>	[77]	"downlit"	"dplyr"	"DT"	"dtplyr"
#>	[81]	"duckdb"	"dynr"	"dynUtils"	"ellipse"
#>	[85]	"ellipsis"	"evaluate"	"expm"	"fansi"
#>	[89]	"farver"	"fastDummies"	"fastmap"	"fclust"
#>	[93]	"fda"	"fdrtool"	"fds"	"FNN"
#>	[97]	"fontawesome"	"forcats"	"foreach"	"Formula"
#>	[101]	"fs"	"fst"	"fstcore"	"furrr"
#>	[105]	"future"	"future.apply"	"gargle"	"generics"
#>	[109]	"gert"	"ggplot2"	"ggrepel"	"gh"
#>	[113]	"gitcreds"	"glasso"	"glmnet"	"globals"
#>	[117]	"glue"	"googledrive"	"googlesheets4"	"gower"
#>	[121]	"GPfit"	"gridExtra"	"gsubfn"	"gtable"
#>	[125]	"gtools"	"hardhat"	"haven"	"hdrcde"
#>	[129]	"here"	"highr"	"Hmisc"	"hms"

#>	[133]	"htmlTable"	"htmltools"	"htmlwidgets"	"httpgd"
#>	[137]	"httpuv"	"httr"	"httr2"	"ids"
#>	[141]	"ifaTools"	"igraph"	"infer"	"ini"
#>	[145]	"inline"	"ipred"	"isoband"	"iterators"
#>	[149]	"jomo"	"jpeg"	"jquerylib"	"jsonlite"
#>	[153]	"jsonvalidate"	"kernlab"	"knitr"	"ks"
#>	[157]	"labeling"	"Lahman"	"languageserver"	"later"
#>	[161]	"latex2exp"	"lava"	"lavaan"	"lazyeval"
#>	[165]	"lhs"	"lifecycle"	"lintr"	"listenv"
#>	[169]	"littler"	"lme4"	"locfit"	"longMI"
#>	[173]	"loo"	"lubridate"	"magick"	"magrittr"
#>	[177]	"markdown"	"MatrixModels"	"matrixStats"	"mclust"
#>	[181]	"memoise"	"metaSEM"	"mice"	"microbenchmark"
#>	[185]	"mime"	"miniUI"	"minqa"	"mitml"
#>	[189]	"mize"	"mnormt"	"modeldata"	"modelenv"
#>	[193]	"modelr"	"MplusAutomation"	"multicool"	"munsell"
#>	[197]	"mvtnorm"	"nloptr"	"numDeriv"	"nycflights13"
#>	[201]	"OpenMx"	"openssl"	"ordinal"	"pan"
#>	[205]	"pander"	"parallelly"	"parsnip"	"patchwork"
#>	[209]	"pbapply"	"pbivnorm"	"pbkrtest"	"pcaPP"
#>	[213]	"pdftools"	"pillar"	"pkgbuild"	"pkgconfig"
#>	[217]	"pkgdown"	"pkgload"	"plogr"	"plyr"
#>	[221]	"png"	"posterior"	"pracma"	"praise"
#>	[225]	"prettyunits"	"printr"	"processx"	"prodlim"
#>	[229]	"profvis"	"progress"	"progressr"	"promises"
#>	[233]	"proto"	"ps"	"psych"	"purrr"
#>	[237]	"qgraph"	"qpdf"	"quadprog"	"quantreg"

#>	[241]	"quarto"	"QuickJSR"	"R.cache"	"R.methodsS3"
#>	[245]	"R.00"	"R.utils"	"R6"	"ragg"
#>	[249]	"rainbow"	"rappdirs"	"rbibutils"	"rcmdcheck"
#>	[253]	"RColorBrewer"	"Rcpp"	"RcppArmadillo"	"RcppEigen"
#>	[257]	"RcppGSL"	"RcppParallel"	"RcppTOML"	"RCurl"
#>	[261]	"Rdpack"	"readr"	"readxl"	"recipes"
#>	[265]	"RefManageR"	"rematch"	"rematch2"	"remotes"
#>	[269]	"reprex"	"reshape2"	"reticulate"	"rex"
#>	[273]	"rhub"	"rlang"	"RMariaDB"	"rmarkdown"
#>	[277]	"roxygen2"	"rpf"	"RPostgres"	"rProject"
#>	[281]	"rprojroot"	"rsample"	"RSQLite"	"rstan"
#>	[285]	"rstantools"	"rstudioapi"	"rversions"	"rvest"
#>	[289]	"Ryacas"	"sass"	"scales"	"selectr"
#>	[293]	"semlbci"	"semmcci"	"sessioninfo"	"shape"
#>	[297]	"shiny"	"simStateSpace"	"slider"	"snow"
#>	[301]	"snowfall"	"sourcetools"	"SparseM"	"SQUAREM"
#>	[305]	"StanHeaders"	"statmod"	"stringi"	"stringr"
#>	[309]	"styler"	"symSEM"	"sys"	"systemfonts"
#>	[313]	"tensorA"	"testthat"	"texreg"	"textshaping"
#>	[317]	"tibble"	"tidymodels"	"tidyr"	"tidyselect"
#>	[321]	"tidyverse"	"timechange"	"timeDate"	"tinytex"
#>	[325]	"tune"	"tzdb"	"ucminf"	"unigd"
#>	[329]	"urlchecker"	"usethis"	"utf8"	"uuid"
#>	[333]	"V8"	"vctrs"	"viridis"	"viridisLite"
#>	[337]	"vroom"	"waldo"	"warp"	"whisker"
#>	[341]	"whoami"	"withr"	"workflows"	"workflowsets"
#>	[345]	"xfun"	"xm12"	"xmlparsedata"	"xopen"

#>	[349] "xtable	ya: "ya:	ml"	"yardstick"	"zip"
#>	[353] "base"	"bo	ot"	"class"	"cluster"
#>	[357] "codeto	ools" "co	mpiler"	"datasets"	"foreign"
#>	[361] "graphi	.cs" "gr	Devices"	"grid"	"KernSmooth"
#>	[365] "lattic	ce" "MA	SS"	"Matrix"	"methods"
#>	[369] "mgcv"	"nl:	me"	"nnet"	"parallel"
#>	[373] "rpart"	"sp	atial"	"splines"	"stats"
#>	[377] "stats4	l" "su	rvival"	"tcltk"	"tools"
#>	[381] "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/