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] lavaan_0.6-18
                      semmcci_1.1.4.9000 rProject_0.0.14
#>
#> loaded via a namespace (and not attached):
#> [1] httr_1.4.7
                     cli_3.6.3.9000 knitr_1.48
                                                     rlang_1.1.4
#> [5] xfun_0.48
                     stringi_1.8.4
                                       highr_0.11
                                                       generics_0.1.3
#> [9] jsonlite_1.8.9 glue_1.8.0
                                       backports_1.5.0 pbivnorm_0.6.0
#> [13] plyr_1.8.9
                      rprojroot_2.0.4 stats4_4.4.1
                                                       RefManageR_1.4.0
#> [17] quadprog_1.5-8 evaluate_1.0.1
                                       lifecycle_1.0.4 stringr_1.5.1
#> [21] compiler_4.4.1 Rcpp_1.0.13
                                      timechange_0.3.0 bibtex_0.5.1
#> [25] R6_2.5.1
                       parallel_4.4.1 mnormt_2.1.1
                                                       magrittr_2.0.3
#> [29] tools_4.4.1 lubridate_1.9.3 xml2_1.3.6
```

Packages

```
unname(installed.packages()[, 1])
     [1] "Amelia"
#>
                              "askpass"
                                                   "bmemLavaan"
    [4] "cli"
                              "commonmark"
                                                   "credentials"
#>
                              "devtools"
     [7] "curl"
                                                   "evaluate"
    [10] "gert"
                              "glue"
                                                   "httr2"
                              "mi"
    [13] "jsonlite"
                                                   "openssl"
```

#>	[16] "pkgdown"	"profvis"	"ps"
#>	[19] "rProject"	"rsem"	"rstudioapi"
#>	[22] "sem"	"semmcci"	"sys"
#>	[25] "tinytex"	"Λ8"	"xfun"
#>	[28] "abind"	"arm"	"arrow"
#>	[31] "ash"	"AsioHeaders"	"askpass"
#>	[34] "assertthat"	"backports"	"base64enc"
#>	[37] "betaDelta"	"betaMC"	"betaNB"
#>	[40] "betaSandwich"	"BH"	"bibtex"
#>	[43] "BiocManager"	"bit"	"bit64"
#>	[46] "bitops"	"blob"	"brew"
#>	[49] "brio"	"broom"	"bslib"
#>	[52] "cachem"	"callr"	"car"
#>	[55] "caracas"	"carData"	"cellranger"
#>	[58] "cffr"	"checkmate"	"cli"
#>	[61] "clipr"	"clock"	"clusterGeneration"
#>	[64] "coda"	"cOde"	"collections"
#>	[67] "colorspace"	"commonmark"	"conflicted"
#>	[70] "corpcor"	"covr"	"cowplot"
#>	[73] "cpp11"	"crayon"	"credentials"
#>	[76] "crosstalk"	"cTMed"	"ctsem"
#>	[79] "curl"	"cyclocomp"	"data.table"
#>	[82] "DBI"	"dbplyr"	"Deriv"
#>	[85] "desc"	"deSolve"	"devtools"
#>	[88] "diagram"	"dials"	"DiceDesign"
#>	[91] "diffobj"	"digest"	"distributional"
#>	[94] "distro"	"doBy"	"docopt"

#>	[97]	"doFuture"	"downlit"	"dplyr"
#>	[100]	"DT"	"dtplyr"	"duckdb"
#>	[103]	"dynr"	"dynUtils"	"ellipse"
#>	[106]	"ellipsis"	"evaluate"	"expm"
#>	[109]	"fansi"	"farver"	"fastDummies"
#>	[112]	"fastmap"	"fclust"	"fda"
#>	[115]	"fdrtool"	"fds"	"fitCTVARMx"
#>	[118]	"fitDTVARMx"	"FNN"	"fontawesome"
#>	[121]	"forcats"	"foreach"	"Formula"
#>	[124]	"fs"	"fst"	"fstcore"
#>	[127]	"furrr"	"future"	"future.apply"
#>	[130]	"gargle"	"generics"	"gert"
#>	[133]	"ggplot2"	"ggrepel"	"gh"
#>	[136]	"gitcreds"	"glasso"	"glmnet"
#>	[139]	"globals"	"glue"	"googledrive"
#>	[142]	"googlesheets4"	"gower"	"GPArotation"
#>	[145]	"GPfit"	"graphicalVAR"	"gridExtra"
#>	[148]	"gsubfn"	"gtable"	"gtools"
#>	[151]	"hardhat"	"haven"	"hdrcde"
#>	[154]	"here"	"highr"	"Hmisc"
#>	[157]	"hms"	"htmlTable"	"htmltools"
#>	[160]	"htmlwidgets"	"httpgd"	"httpuv"
#>	[163]	"httr"	"httr2"	"ids"
#>	[166]	"ifaTools"	"igraph"	"infer"
#>	[169]	"ini"	"inline"	"ipred"
#>	[172]	"isoband"	"iterators"	"jomo"
#>	[175]	"jpeg"	"jquerylib"	"jsonlite"

#>	[178]	"jsonvalidate"	"kernlab"	"knitr"
#>	[181]	"ks"	"labeling"	"Lahman"
#>	[184]	"languageserver"	"later"	"latex2exp"
#>	[187]	"lava"	"lavaan"	"lazyeval"
#>	[190]	"lhs"	"lifecycle"	"lintr"
#>	[193]	"listenv"	"littler"	"lme4"
#>	[196]	"locfit"	"longMI"	"loo"
#>	[199]	"lubridate"	"magick"	"magrittr"
#>	[202]	"markdown"	"MatrixModels"	"matrixStats"
#>	[205]	"mclust"	"memoise"	"metaSEM"
#>	[208]	"metaVAR"	"mice"	"microbenchmark"
#>	[211]	"mime"	"miniUI"	"minqa"
#>	[214]	"mitml"	"mize"	"mlVAR"
#>	[217]	"mnormt"	"modeldata"	"modelenv"
#>	[220]	"modelr"	"MplusAutomation"	"multicool"
		"modelr" "munsell"	"MplusAutomation" "mvtnorm"	"multicool" "nloptr"
#>	[223]		_	
#> #>	[223] [226]	"munsell"	"mvtnorm"	"nloptr"
#> #> #>	[223] [226] [229]	"munsell" "numDeriv"	"mvtnorm" "nycflights13"	"nloptr" "OpenMx"
#> #> #>	[223] [226] [229] [232]	"munsell" "numDeriv" "openssl"	"mvtnorm" "nycflights13" "ordinal"	"nloptr" "OpenMx" "pan"
#> #> #> #>	[223] [226] [229] [232] [235]	"munsell" "numDeriv" "openssl" "pander"	"mvtnorm" "nycflights13" "ordinal" "parallelly"	"nloptr" "OpenMx" "pan" "parsnip"
#> #> #> #> #>	[223] [226] [229] [232] [235] [238]	"munsell" "numDeriv" "openssl" "pander" "patchwork"	"mvtnorm" "nycflights13" "ordinal" "parallelly" "pbapply"	"nloptr" "OpenMx" "pan" "parsnip" "pbivnorm"
#> #> #> #> #>	[223] [226] [229] [232] [235] [238] [241]	"munsell" "numDeriv" "openssl" "pander" "patchwork" "pbkrtest"	"mvtnorm" "nycflights13" "ordinal" "parallelly" "pbapply" "pcaPP"	"nloptr" "OpenMx" "pan" "parsnip" "pbivnorm" "pdftools"
#> #> #> #> #> #>	[223] [226] [229] [232] [235] [238] [241] [244]	"munsell" "numDeriv" "openssl" "pander" "patchwork" "pbkrtest" "pillar"	"mvtnorm" "nycflights13" "ordinal" "parallelly" "pbapply" "pcaPP" "pkgbuild"	"nloptr" "OpenMx" "pan" "parsnip" "pbivnorm" "pdftools" "pkgconfig"
#> #> #> #> #> #>	[223] [226] [229] [232] [235] [238] [241] [244] [244]	"munsell" "numDeriv" "openssl" "pander" "patchwork" "pbkrtest" "pillar" "pkgdown"	"mvtnorm" "nycflights13" "ordinal" "parallelly" "pbapply" "pcaPP" "pkgbuild" "pkgload"	"nloptr" "OpenMx" "pan" "parsnip" "pbivnorm" "pdftools" "pkgconfig" "plogr"
#> #> #> #> #> #> #> #>	[223] [226] [229] [232] [235] [238] [241] [244] [247] [250]	"munsell" "numDeriv" "openssl" "pander" "patchwork" "pbkrtest" "pillar" "pkgdown" "plyr"	"mvtnorm" "nycflights13" "ordinal" "parallelly" "pbapply" "pcaPP" "pkgbuild" "pkgload" "png"	"nloptr" "OpenMx" "pan" "parsnip" "pbivnorm" "pdftools" "pkgconfig" "plogr" "posterior"
#> #> #> #> #> #> #> #> #>	[223] [226] [229] [232] [235] [238] [241] [244] [247] [250] [253]	"munsell" "numDeriv" "openssl" "pander" "patchwork" "pbkrtest" "pillar" "pkgdown" "plyr" "pracma"	"mvtnorm" "nycflights13" "ordinal" "parallelly" "pbapply" "pcaPP" "pkgbuild" "pkgload" "png" "praise"	"nloptr" "OpenMx" "pan" "parsnip" "pbivnorm" "pdftools" "pkgconfig" "plogr" "posterior" "prettyunits"

#> [259] "promises"	"proto"	"ps"
#> [262] "psych"	"purrr"	"qgraph"
#> [265] "qpdf"	"quadprog"	"quantreg"
#> [268] "quarto"	"QuickJSR"	"R.cache"
#> [271] "R.methodsS3"	"R.00"	"R.utils"
#> [274] "R6"	"ragg"	"rainbow"
#> [277] "rappdirs"	"rbibutils"	"rcmdcheck"
#> [280] "RColorBrewer"	"Rcpp"	"RcppArmadillo"
#> [283] "RcppEigen"	"RcppGSL"	"RcppParallel"
#> [286] "RcppTOML"	"RCurl"	"Rdpack"
#> [289] "readr"	"readx1"	"recipes"
#> [292] "RefManageR"	"rematch"	"rematch2"
#> [295] "remotes"	"reprex"	"reshape2"
#> [298] "reticulate"	"rex"	"rhub"
#> [301] "rjags"	"rlang"	"RMariaDB"
#> [304] "rmarkdown"	"roxygen2"	"rpf"
#> [307] "RPostgres"	"rProject"	"rprojroot"
#> [310] "rsample"	"RSQLite"	"rstan"
#> [313] "rstantools"	"rstudioapi"	"rversions"
#> [316] "rvest"	"Ryacas"	"sass"
#> [319] "scales"	"selectr"	"semlbci"
#> [322] "semmcci"	"sessioninfo"	"sfd"
#> [325] "shape"	"shiny"	"simStateSpace"
#> [328] "slider"	"snow"	"snowfall"
<pre>#> [331] "sourcetools"</pre>	"SparseM"	"SQUAREM"
#> [334] "StanHeaders"	"statmod"	"stringi"
#> [337] "stringr"	"styler"	"symSEM"

#> [340] "sys"	"systemfonts"	"tensorA"
#> [343] "testthat"	"texreg"	"textshaping"
#> [346] "tibble"	"tidymodels"	"tidyr"
#> [349] "tidyselect"	"tidyverse"	"timechange"
#> [352] "timeDate"	"tinytex"	"tune"
#> [355] "tzdb"	"ucminf"	"unigd"
#> [358] "urlchecker"	"usethis"	"utf8"
#> [361] "uuid"	"γ8"	"vctrs"
#> [364] "viridis"	"viridisLite"	"vroom"
#> [367] "waldo"	"warp"	"whisker"
#> [370] "whoami"	"withr"	"workflows"
#> [373] "workflowsets"	"xfun"	"xm12"
#> [376] "xmlparsedata"	"xopen"	"xtable"
#> [379] "yam1"	"yardstick"	"zip"
#> [382] "base"	"boot"	"class"
#> [385] "cluster"	"codetools"	"compiler"
#> [388] "datasets"	"foreign"	"graphics"
#> [391] "grDevices"	"grid"	"KernSmooth"
#> [394] "lattice"	"MASS"	"Matrix"
#> [397] "methods"	"mgcv"	"nlme"
#> [400] "nnet"	"parallel"	"rpart"
#> [403] "spatial"	"splines"	"stats"
#> [406] "stats4"	"survival"	"tcltk"
#> [409] "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/