# 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_1.0.0 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"	"sem"
#>	[22]	"semmcci"	"sys"	"tinytex"
#>	[25]	"V8"	"xfun"	"abind"
#>	[28]	"arm"	"arrow"	"ash"
#>	[31]	"AsioHeaders"	"askpass"	"assertthat"
#>	[34]	"backports"	"base64enc"	"betaDelta"
#>	[37]	"betaMC"	"betaNB"	"betaSandwich"
#>	[40]	"BH"	"bibtex"	"BiocManager"
#>	[43]	"bit"	"bit64"	"bitops"
#>	[46]	"blob"	"brew"	"brio"
#>	[49]	"broom"	"bslib"	"cachem"
#>	[52]	"callr"	"car"	"caracas"
#>	[55]	"carData"	"cellranger"	"cffr"
#>	[58]	"checkmate"	"cli"	"clipr"
#>	[61]	"clock"	"clusterGeneration"	"coda"
#>	[64]	"cOde"	"collections"	"colorspace"
#>	[67]	"commonmark"	"conflicted"	"corpcor"
#>	[70]	"covr"	"cowplot"	"cpp11"
#>	[73]	"crayon"	"credentials"	"crosstalk"
#>	[76]	"cTMed"	"ctsem"	"curl"
#>	[79]	"cyclocomp"	"data.table"	"DBI"
#>	[82]	"dbplyr"	"Deriv"	"desc"
#>	[85]	"deSolve"	"devtools"	"diagram"
#>	[88]	"dials"	"DiceDesign"	"diffobj"
#>	[91]	"digest"	"distributional"	"distro"
#>	[94]	"doBy"	"docopt"	"doFuture"

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

#> [178] "kernlab"	"knitr"	"ks"
#> [181] "labeling"	"Lahman"	"languageserver"
#> [184] "later"	"latex2exp"	"lava"
#> [187] "lavaan"	"lazyeval"	"lhs"
#> [190] "lifecycle"	"lintr"	"listenv"
#> [193] "littler"	"lme4"	"locfit"
#> [196] "longMI"	"loo"	"lubridate"
#> [199] "magick"	"magrittr"	"markdown"
<pre>#&gt; [202] "MatrixModels"</pre>	"matrixStats"	"mclust"
#> [205] "memoise"	"metaSEM"	"metaVAR"
#> [208] "mice"	"microbenchmark"	"mime"
#> [211] "miniUI"	"minqa"	"mitml"
#> [214] "mize"	"mlVAR"	"mnormt"
#> [217] "modeldata"	"modelenv"	"modelr"
<pre>#&gt; [220] "MplusAutomation"</pre>	"multicool"	"munsell"
#> [223] "mvtnorm"	"nloptr"	"numDeriv"
#> [226] "nycflights13"	"OpenMx"	"openss1"
#> [229] "ordinal"	"pan"	"pander"
#> [232] "parallelly"	"parsnip"	"patchwork"
#> [235] "pbapply"	"pbivnorm"	"pbkrtest"
#> [238] "pcaPP"	"pdftools"	"pillar"
#> [241] "pkgbuild"	"pkgconfig"	"pkgdown"
#> [244] "pkgload"	"plogr"	"plyr"
#> [247] "png"	"posterior"	"pracma"
#> [250] "praise"	"prettyunits"	"printr"
	1 3	
#> [253] "processx"	"prodlim"	"profvis"
<pre>#&gt; [253] "processx" #&gt; [256] "progress"</pre>		"profvis" "promises"

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

#> [34	40] "systemfonts"	"tensorA"	"testthat"
#> [34	43] "texreg"	"textshaping"	"tibble"
#> [34	46] "tidymodels"	"tidyr"	"tidyselect"
#> [34	49] "tidyverse"	"timechange"	"timeDate"
#> [35	52] "tinytex"	"tune"	"tzdb"
#> [35	55] "ucminf"	"unigd"	"urlchecker"
#> [35	58] "usethis"	"utf8"	"uuid"
#> [36	61] "V8"	"vctrs"	"viridis"
#> [36	64] "viridisLite"	"vroom"	"waldo"
#> [36	67] "warp"	"whisker"	"whoami"
#> [37	70] "withr"	"workflows"	"workflowsets"
#> [37	73] "xfun"	"xm12"	"xmlparsedata"
#> [37	76] "xopen"	"xtable"	"yaml"
#> [37	79] "yardstick"	"zip"	"base"
#> [38	32] "boot"	"class"	"cluster"
#> [38	35] "codetools"	"compiler"	"datasets"
#> [38	88] "foreign"	"graphics"	"grDevices"
#> [39	91] "grid"	"KernSmooth"	"lattice"
#> [39	94] "MASS"	"Matrix"	"methods"
#> [39	97] "mgcv"	"nlme"	"nnet"
#> [40	00] "parallel"	"rpart"	"spatial"
#> [40	03] "splines"	"stats"	"stats4"
#> [40	06] "survival"	"tcltk"	"tools"
#> [40	09] "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/