

Session Info

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Session

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sessionInfo()
```

```
#> R version 4.5.1 (2025-06-13)
#> Platform: x86_64-pc-linux-gnu
#> Running under: Ubuntu 24.04.3 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-p-r0.3.26.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
#> tzcode source: system (glibc)
#>
#> attached base packages:
#> [1] stats      graphics  grDevices  utils      datasets  methods    base
#>
#> other attached packages:
#> [1] rProject_0.0.21
#>
#> loaded via a namespace (and not attached):
#>  [1] backports_1.5.0  R6_2.6.1         lubridate_1.9.4  xfun_0.53
#>  [5] magrittr_2.0.4   glue_1.8.0       stringr_1.5.2    knitr_1.50
#>  [9] timechange_0.3.0 generics_0.1.4    lifecycle_1.0.4  xml2_1.4.0
#> [13] cli_3.6.5.9000   bibtex_0.5.1     compiler_4.5.1   highr_0.11
#> [17] rprojroot_2.1.1  plyr_1.8.9       httr_1.4.7       tools_4.5.1
#> [21] evaluate_1.0.5   Rcpp_1.1.0       RefManageR_1.4.0 rlang_1.1.6
```

```
#> [25] jsonlite_2.0.0 stringi_1.8.7
```

Packages

```
unnname(installed.packages()[, 1])
```

```
#> [1] "bootStateSpace" "rProject" "abind"
#> [4] "Amelia" "arm" "arrow"
#> [7] "ash" "askpass" "assertthat"
#> [10] "backports" "base64enc" "betaDelta"
#> [13] "betaMC" "betaNB" "betaSandwich"
#> [16] "BH" "bibtex" "BiocManager"
#> [19] "bit" "bit64" "bitops"
#> [22] "blob" "bootStateSpace" "brew"
#> [25] "brio" "broom" "bslib"
#> [28] "cachem" "callr" "car"
#> [31] "caracas" "carData" "cellranger"
#> [34] "cfr" "checkmate" "cli"
#> [37] "clipr" "clock" "clusterGeneration"
#> [40] "coda" "cOde" "collections"
#> [43] "colorspace" "commonmark" "conflicted"
#> [46] "corpcor" "covr" "cowplot"
#> [49] "cpp11" "crayon" "credentials"
#> [52] "crosstalk" "cTMed" "ctsem"
#> [55] "curl" "data.table" "DBI"
#> [58] "dbplyr" "Deriv" "desc"
#> [61] "deSolve" "devtools" "diagram"
#> [64] "dials" "DiceDesign" "diffobj"
#> [67] "digest" "distributional" "distro"
#> [70] "doBy" "docopt" "downlit"
#> [73] "dplyr" "DT" "dtplyr"
#> [76] "duckdb" "dynr" "dynUtils"
#> [79] "ellipse" "ellipsis" "evaluate"
#> [82] "expm" "fans" "farver"
#> [85] "fastDummies" "fastmap" "fclust"
#> [88] "fda" "fdrtool" "fds"
#> [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"	"hdcrcde"
#> [127]	"here"	"highr"	"Hmisc"
#> [130]	"hms"	"htmlTable"	"htmltools"
#> [133]	"htmlwidgets"	"httpuv"	"httr"
#> [136]	"httr2"	"ids"	"ifaTools"
#> [139]	"igraph"	"infer"	"ini"
#> [142]	"inline"	"ipred"	"isoband"
#> [145]	"iterators"	"jomo"	"jpeg"
#> [148]	"jquerylib"	"jsonlite"	"jsonvalidate"
#> [151]	"kernlab"	"knitr"	"ks"
#> [154]	"labeling"	"Lahman"	"languageserver"
#> [157]	"later"	"latex2exp"	"lava"
#> [160]	"lavaan"	"lazyeval"	"lhs"
#> [163]	"lifecycle"	"lintr"	"listenv"
#> [166]	"litedown"	"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]	"mvtnorm"	"nloptr"	"numDeriv"
#> [199]	"nycflights13"	"OpenMx"	"openssl"
#> [202]	"ordinal"	"pan"	"pander"
#> [205]	"parallelly"	"parsnip"	"patchwork"
#> [208]	"pbapply"	"pbivnorm"	"pbkrtest"
#> [211]	"pcaPP"	"pdftools"	"pillar"
#> [214]	"pkgbuild"	"pkgconfig"	"pkgdown"
#> [217]	"pkgload"	"plogr"	"plyr"
#> [220]	"png"	"posterior"	"pracma"
#> [223]	"praise"	"prettyunits"	"printr"
#> [226]	"processx"	"prodlim"	"profvis"
#> [229]	"progress"	"progressr"	"promises"
#> [232]	"proto"	"ps"	"psych"
#> [235]	"purrr"	"qgraph"	"qpdf"
#> [238]	"quadprog"	"quantreg"	"quarto"
#> [241]	"QuickJSR"	"R.cache"	"R.methodsS3"
#> [244]	"R.oo"	"R.utils"	"R2jags"

#> [247]	"R2WinBUGS"	"R6"	"ragg"
#> [250]	"rainbow"	"rappdirs"	"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"	"S7"	"sass"
#> [295]	"scales"	"selectr"	"semlbci"
#> [298]	"semmccci"	"sessioninfo"	"sfd"
#> [301]	"shape"	"shiny"	"simStateSpace"
#> [304]	"slider"	"snow"	"snowfall"
#> [307]	"sourcetools"	"SparseM"	"sparsevctrs"
#> [310]	"SQUAREM"	"StanHeaders"	"stringi"
#> [313]	"stringr"	"styler"	"symSEM"
#> [316]	"sys"	"systemfonts"	"tailor"
#> [319]	"tensorA"	"testthat"	"texreg"
#> [322]	"textshaping"	"tibble"	"tidymodels"
#> [325]	"tidyr"	"tidyselect"	"tidyverse"
#> [328]	"timechange"	"timeDate"	"tinytex"
#> [331]	"tune"	"tzdb"	"ucminf"
#> [334]	"urlchecker"	"usethis"	"utf8"
#> [337]	"uuid"	"V8"	"vctrs"
#> [340]	"viridis"	"viridisLite"	"vroom"
#> [343]	"waldo"	"warp"	"whisker"
#> [346]	"whoami"	"withr"	"workflows"
#> [349]	"workflowsets"	"xfun"	"xml2"
#> [352]	"xmlparsedata"	"xopen"	"xtable"
#> [355]	"yaml"	"yardstick"	"zip"
#> [358]	"base"	"boot"	"class"
#> [361]	"cluster"	"codetools"	"compiler"
#> [364]	"datasets"	"foreign"	"graphics"
#> [367]	"grDevices"	"grid"	"KernSmooth"
#> [370]	"lattice"	"MASS"	"Matrix"
#> [373]	"methods"	"mgcv"	"nlme"
#> [376]	"nnet"	"parallel"	"rpart"
#> [379]	"spatial"	"splines"	"stats"

```
#> [382] "stats4"          "survival"        "tcltk"
#> [385] "tools"           "utils"
```

References

- Pesigan, I. J. A., Russell, M. A., & Chow, S.-M. (2025). Inferences and effect sizes for direct, indirect, and total effects in continuous-time mediation models. *Psychological Methods*. <https://doi.org/10.1037/met0000779>
- R Core Team. (2025). *R: A language and environment for statistical computing*. R Foundation for Statistical Computing. Vienna, Austria. <https://www.R-project.org/>