

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
```

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

Packages

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

```
#> [1] "simStateSpace"      "abind"              "Amelia"
#> [4] "arm"                "arrow"              "ash"
#> [7] "askpass"            "assertthat"         "backports"
#> [10] "base64enc"          "betaDelta"          "betaMC"
#> [13] "betaNB"             "betaSandwich"       "BH"
#> [16] "bibtex"             "BiocManager"        "bit"
#> [19] "bit64"              "bitops"             "blob"
#> [22] "bootStateSpace"     "brew"               "brio"
#> [25] "broom"              "bslib"              "cachem"
#> [28] "callr"              "car"                "caracas"
#> [31] "carData"            "cellranger"         "cfr"
#> [34] "checkmate"          "cli"                "clipr"
#> [37] "clock"              "clusterGeneration"  "coda"
#> [40] "c0de"               "collections"        "colorspace"
#> [43] "commonmark"         "conflicted"         "corpcor"
#> [46] "covr"               "cowplot"            "cpp11"
#> [49] "crayon"             "credentials"         "crosstalk"
#> [52] "cTMed"              "ctsem"              "curl"
#> [55] "data.table"         "DBI"                "dbplyr"
#> [58] "Deriv"              "desc"               "deSolve"
#> [61] "devtools"           "diagram"            "dials"
#> [64] "DiceDesign"         "diffobj"            "digest"
#> [67] "distributional"     "distrib"            "doBy"
#> [70] "docopt"             "downlit"            "dplyr"
#> [73] "DT"                 "dtplyr"             "duckdb"
#> [76] "dynr"               "dynUtils"           "ellipse"
#> [79] "ellipses"           "evaluate"           "expm"
#> [82] "fansi"              "farver"             "fastDummies"
#> [85] "fastmap"            "fclust"             "fda"
#> [88] "fdrtool"            "fds"                "fitDTVARm"
#> [91] "FNN"                "fontawesome"        "forcats"
#> [94] "foreach"           "Formula"            "fs"
#> [97] "fst"                "fstcore"            "frr"
#> [100] "future"             "future.apply"       "gargle"
#> [103] "generics"           "gert"               "ggplot2"
#> [106] "ggrepel"            "gh"                 "gitcreds"
#> [109] "glasso"             "glmnet"             "globals"
```

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#> [112] "glue" "googledrive" "googlesheets4"
#> [115] "gower" "GPArotation" "GPfit"
#> [118] "graphicalVAR" "gridExtra" "gsubfn"
#> [121] "gtable" "gtools" "hardhat"
#> [124] "haven" "hdcrcde" "here"
#> [127] "highr" "Hmisc" "hms"
#> [130] "htmlTable" "htmltools" "htmlwidgets"
#> [133] "httpuv" "httr" "httr2"
#> [136] "ids" "ifaTools" "igraph"
#> [139] "infer" "ini" "inline"
#> [142] "ipred" "isoband" "iterators"
#> [145] "jomo" "jpeg" "jquerylib"
#> [148] "jsonlite" "jsonvalidate" "kernlab"
#> [151] "knitr" "ks" "labeling"
#> [154] "Lahman" "languageserver" "later"
#> [157] "latex2exp" "lava" "lavaan"
#> [160] "lazyeval" "lhs" "lifecycle"
#> [163] "lintr" "listenv" "litedown"
#> [166] "littler" "lme4" "locfit"
#> [169] "longMI" "loo" "lubridate"
#> [172] "magick" "magrittr" "markdown"
#> [175] "MatrixModels" "matrixStats" "mclust"
#> [178] "memoise" "metaSEM" "metaVAR"
#> [181] "mice" "microbenchmark" "mime"
#> [184] "miniUI" "minqa" "mitml"
#> [187] "mize" "mlVAR" "mnormt"
#> [190] "modeldata" "modelenv" "modelr"
#> [193] "MplusAutomation" "multicool" "mvtnorm"
#> [196] "nloptr" "numDeriv" "nycflights13"
#> [199] "OpenMx" "openssl" "ordinal"
#> [202] "pan" "pander" "parallelly"
#> [205] "parsnip" "patchwork" "pbapply"
#> [208] "pbivnorm" "pbkrtest" "pcaPP"
#> [211] "pdftools" "pillar" "pkgbuild"
#> [214] "pkgconfig" "pkgdown" "pkgload"
#> [217] "plogr" "plyr" "png"
#> [220] "posterior" "pracma" "praise"
#> [223] "prettyunits" "printr" "processx"
#> [226] "prodlim" "profvis" "progress"
#> [229] "progressr" "promises" "proto"
#> [232] "ps" "psych" "purrr"
#> [235] "qgraph" "qpdf" "quadprog"
#> [238] "quantreg" "quarto" "QuickJSR"
#> [241] "R.cache" "R.methodsS3" "R.oo"
#> [244] "R.utils" "R2jags" "R2WinBUGS"

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#> [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"	"reformulas"	"rematch"
#> [268]	"rematch2"	"remotes"	"reprex"
#> [271]	"reshape2"	"reticulate"	"rex"
#> [274]	"rhub"	"rjags"	"rlang"
#> [277]	"RMariaDB"	"rmarkdown"	"roxygen2"
#> [280]	"rpf"	"RPostgres"	"rProject"
#> [283]	"rprojroot"	"rsample"	"RSQLite"
#> [286]	"rstan"	"rstantools"	"rstudioapi"
#> [289]	"rversions"	"rvest"	"Ryacas"
#> [292]	"S7"	"sass"	"scales"
#> [295]	"selectr"	"semlbci"	"semmcci"
#> [298]	"sessioninfo"	"sfd"	"shape"
#> [301]	"shiny"	"simStateSpace"	"slider"
#> [304]	"snow"	"snowfall"	"sourcetools"
#> [307]	"SparseM"	"sparsevctrs"	"SQUAREM"
#> [310]	"StanHeaders"	"stringi"	"stringr"
#> [313]	"styler"	"symSEM"	"sys"
#> [316]	"systemfonts"	"tailor"	"tensorA"
#> [319]	"testthat"	"texreg"	"textshaping"
#> [322]	"tibble"	"tidymodels"	"tidyr"
#> [325]	"tidyselect"	"tidyverse"	"timechange"
#> [328]	"timeDate"	"tinytex"	"tune"
#> [331]	"tzdb"	"ucminf"	"urlchecker"
#> [334]	"usethis"	"utf8"	"uuid"
#> [337]	"V8"	"vctrs"	"viridisLite"
#> [340]	"vroom"	"waldo"	"warp"
#> [343]	"whisker"	"whoami"	"withr"
#> [346]	"workflows"	"workflowsets"	"xfun"
#> [349]	"xml2"	"xmlparsedata"	"xopen"
#> [352]	"xtable"	"yaml"	"yardstick"
#> [355]	"zip"	"base"	"boot"
#> [358]	"class"	"cluster"	"codetools"
#> [361]	"compiler"	"datasets"	"foreign"
#> [364]	"graphics"	"grDevices"	"grid"
#> [367]	"KernSmooth"	"lattice"	"MASS"
#> [370]	"Matrix"	"methods"	"mgcv"
#> [373]	"nlme"	"nnet"	"parallel"
#> [376]	"rpart"	"spatial"	"splines"
#> [379]	"stats"	"stats4"	"survival"

```
#> [382] "tcltk"          "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/>