

# Session Info

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## Session

```
sessionInfo()
```

```
#> R version 4.5.2 (2025-10-31)
#> 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_0.0.23
#>
#> loaded via a namespace (and not attached):
#>  [1] backports_1.5.0  R6_2.6.1         lubridate_1.9.4  xfun_0.55
#>  [5] magrittr_2.0.4   glue_1.8.0       stringr_1.6.0    knitr_1.51
#>  [9] timechange_0.3.0 generics_0.1.4    lifecycle_1.0.4  xml2_1.5.1
#> [13] cli_3.6.5.9000   bibtex_0.5.1     compiler_4.5.2   plyr_1.8.9
#> [17] highr_0.11       rprojroot_2.1.1  httr_1.4.7       tools_4.5.2
#> [21] evaluate_1.0.5   Rcpp_1.1.0       RefManageR_1.4.0 otel_0.2.0
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#> [25] rlang_1.1.6      jsonlite_2.0.0    stringi_1.8.7
```

## Packages

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

```
#> [1] "simStateSpace"      "abind"              "Amelia"
#> [4] "arm"                "arrow"              "ash"
#> [7] "AsioHeaders"        "askpass"            "assertthat"
#> [10] "backports"          "base64enc"          "betaDelta"
#> [13] "betaMC"             "betaNB"             "betaSandwich"
#> [16] "BH"                 "bibtex"             "BiocManager"
#> [19] "BiocVersion"        "bit"                "bit64"
#> [22] "bitops"             "blob"               "bootStateSpace"
#> [25] "brew"              "brio"               "broom"
#> [28] "bslib"              "cachem"             "callr"
#> [31] "car"                "caracas"            "carData"
#> [34] "cellranger"         "cfrfr"              "checkmate"
#> [37] "cli"                "clipr"              "clock"
#> [40] "clusterGeneration" "coda"               "c0de"
#> [43] "collections"        "colorspace"         "commonmark"
#> [46] "conflicted"         "corpcor"            "covr"
#> [49] "cowplot"            "cpp11"              "crayon"
#> [52] "credentials"        "crosstalk"          "cTMed"
#> [55] "ctsem"              "curl"               "data.table"
#> [58] "DBI"                "dbplyr"             "Deriv"
#> [61] "desc"               "deSolve"            "devtools"
#> [64] "diagram"            "dials"              "DiceDesign"
#> [67] "diffobj"            "digest"             "distributional"
#> [70] "distrib"            "doBy"               "docopt"
#> [73] "downlit"            "dplyr"              "DT"
#> [76] "dtplyr"             "duckdb"             "dynr"
#> [79] "dynUtils"           "ellipse"            "ellipsis"
#> [82] "evaluate"           "expm"               "fans"
#> [85] "farver"             "fastDummies"        "fastmap"
#> [88] "fclust"             "fda"                "fdrtool"
#> [91] "fdr"               "fitDTVARmID"        "FNN"
#> [94] "fontawesome"        "forcats"            "foreach"
#> [97] "forecast"           "Formula"            "fracdiff"
#> [100] "fs"                 "fst"                "fstcore"
#> [103] "furrr"              "future"             "future.apply"
#> [106] "gargle"             "generics"           "gert"
#> [109] "ggplot2"            "ggrepel"            "gh"
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#> [112] "gitcreds"          "glasso"            "glmnet"
#> [115] "globals"          "glue"              "googledrive"
#> [118] "googlesheets4"    "gower"             "GPArotation"
#> [121] "GPfit"            "graphicalVAR"      "gridExtra"
#> [124] "gsubfn"           "gtable"            "gtools"
#> [127] "hardhat"          "haven"             "hdrcde"
#> [130] "here"             "highr"             "Hmisc"
#> [133] "hms"              "htmlTable"         "htmltools"
#> [136] "htmlwidgets"      "httpgd"            "httpuv"
#> [139] "httr"             "httr2"             "ids"
#> [142] "ifaTools"         "igraph"            "infer"
#> [145] "ini"              "inline"            "ipred"
#> [148] "isoband"          "iterators"         "jomo"
#> [151] "jpeg"             "jquerylib"         "jsonlite"
#> [154] "jsonvalidate"     "kernlab"           "knitr"
#> [157] "ks"               "labeling"          "Lahman"
#> [160] "languageserver"   "later"             "latex2exp"
#> [163] "lava"             "lavaan"            "lazyeval"
#> [166] "lhs"              "lifecycle"         "lintr"
#> [169] "listenv"          "litedown"          "littler"
#> [172] "lme4"             "lmtest"            "locfit"
#> [175] "longMI"           "loo"               "lubridate"
#> [178] "magick"           "magrittr"          "markdown"
#> [181] "MatrixModels"     "matrixStats"       "mclust"
#> [184] "memoise"          "metaSEM"           "metaVAR"
#> [187] "mice"             "microbenchmark"    "mime"
#> [190] "miniUI"           "minqa"             "mitml"
#> [193] "mize"             "mlVAR"             "mnormt"
#> [196] "modeldata"        "modelenv"          "modelr"
#> [199] "MplusAutomation" "multicool"         "mvtnorm"
#> [202] "nloptr"           "numDeriv"          "nycflights13"
#> [205] "OpenMx"           "openssl"           "ordinal"
#> [208] "otel"             "pan"               "pander"
#> [211] "parallelly"       "parsnip"           "patchwork"
#> [214] "pbapply"          "pbivnorm"          "pbkrtest"
#> [217] "pcaPP"            "pdftools"          "pillar"
#> [220] "pkgbuild"         "pkgconfig"         "pkgdown"
#> [223] "pkgload"          "plogr"             "plyr"
#> [226] "png"              "posterior"         "pracma"
#> [229] "praise"           "prettyunits"       "printr"
#> [232] "processx"         "prodlim"           "profvis"
#> [235] "progress"         "progressr"         "promises"
#> [238] "proto"            "ps"                "psych"
#> [241] "purrr"            "qgraph"            "qpdf"
#> [244] "quadprog"         "quantmod"          "quantreg"

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#> [247] "quarto" "QuickJSR" "R.cache"
#> [250] "R.methodsS3" "R.oo" "R.utils"
#> [253] "R2jags" "R2WinBUGS" "R6"
#> [256] "ragg" "rainbow" "rappdirs"
#> [259] "rbibutils" "rcmdcheck" "RColorBrewer"
#> [262] "Rcpp" "RcppArmadillo" "RcppEigen"
#> [265] "RcppGSL" "RcppParallel" "RcppTOML"
#> [268] "RCurl" "Rdpack" "readr"
#> [271] "readxl" "recipes" "RefManageR"
#> [274] "reformulas" "rematch" "rematch2"
#> [277] "remotes" "reprex" "reshape2"
#> [280] "reticulate" "rex" "rhdf5"
#> [283] "rhdf5filters" "Rhdf5lib" "rhub"
#> [286] "rjags" "rlang" "RMariaDB"
#> [289] "rmarkdown" "roxygen2" "rpf"
#> [292] "RPostgres" "rProject" "rprojroot"
#> [295] "rsample" "RSQLite" "rstan"
#> [298] "rstantools" "rstudioapi" "rversions"
#> [301] "rvest" "Ryacas" "S7"
#> [304] "sass" "scales" "selectr"
#> [307] "semlbci" "semmccci" "sessioninfo"
#> [310] "sfd" "shape" "shiny"
#> [313] "simStateSpace" "slider" "snow"
#> [316] "snowfall" "sourcetools" "SparseM"
#> [319] "sparsevctrs" "SQUAREM" "StanHeaders"
#> [322] "stringi" "stringr" "styler"
#> [325] "symSEM" "sys" "systemfonts"
#> [328] "tailor" "tensorA" "testthat"
#> [331] "texreg" "textshaping" "tibble"
#> [334] "tidymodels" "tidyr" "tidyselect"
#> [337] "tidyverse" "timechange" "timeDate"
#> [340] "tinytex" "tseries" "TTR"
#> [343] "tune" "tzdb" "ucminf"
#> [346] "unigd" "urca" "urlchecker"
#> [349] "usethis" "utf8" "uuid"
#> [352] "V8" "vctrs" "viridisLite"
#> [355] "vroom" "waldo" "warp"
#> [358] "whisker" "whoami" "withr"
#> [361] "workflows" "workflowsets" "xfun"
#> [364] "xml2" "xmlparsedata" "xopen"
#> [367] "xtable" "xts" "yaml"
#> [370] "yardstick" "zip" "zoo"
#> [373] "base" "boot" "class"
#> [376] "cluster" "codetools" "compiler"
#> [379] "datasets" "foreign" "graphics"

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```
#> [382] "grDevices"      "grid"           "KernSmooth"
#> [385] "lattice"        "MASS"           "Matrix"
#> [388] "methods"        "mgcv"           "nlme"
#> [391] "nnet"           "parallel"       "rpart"
#> [394] "spatial"        "splines"        "stats"
#> [397] "stats4"         "survival"       "tcltk"
#> [400] "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/>