Session Info

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Session

```r
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/libopenblasp-r0.3.26.so;  LAPACK version 3.12.
#>
#> 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_1.50
#>  [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   highr_0.11
#> [17] rprojroot_2.1.1  plyr_1.8.9       httr_1.4.7       tools_4.5.2
#> [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

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

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

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

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

```
#> [382] "foreign"          "graphics"          "grDevices"
#> [385] "grid"             "KernSmooth"        "lattice"
#> [388] "MASS"             "Matrix"            "methods"
#> [391] "mgcv"             "nlme"              "nnet"
#> [394] "parallel"         "rpart"             "spatial"
#> [397] "splines"          "stats"             "stats4"
#> [400] "survival"         "tcltk"             "tools"
#> [403] "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/