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/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_1.51
#>  [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

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

```
#>   [1] "devtools"          "rProject"          "simStateSpace"
#>   [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"
```

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#> [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/