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_1.51
#>  [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
```

```
#> [25] rlang_1.1.6      jsonlite_2.0.0   stringi_1.8.7
```

Packages

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

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

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

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

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