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_0.56
#>  [5] magrittr_2.0.4   glue_1.8.0        stringr_1.6.0    knitr_1.51
#>  [9] timechange_0.4.0 generics_0.1.4   lifecycle_1.0.5  xml2_1.5.2
#> [13] cli_3.6.5.9000   bibtex_0.5.2     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_1.1.1       RefManageR_1.4.0 otel_0.2.0
```

```
#> [25] rlang_1.1.7      jsonlite_2.0.0   stringi_1.8.7
```

Packages

```r
unname(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"         "cffr"            "checkmate"
#>  [37] "cli"                "clipr"           "clock"
#>  [40] "clusterGeneration"  "coda"            "cOde"
#>  [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] "distro"             "doBy"            "docopt"
#>  [73] "downlit"            "dplyr"           "DT"
#>  [76] "dtplyr"             "duckdb"          "dynr"
#>  [79] "dynUtils"           "ellipse"         "ellipsis"
#>  [82] "evaluate"           "expm"            "fansi"
#>  [85] "farver"             "fastDummies"     "fastmap"
#>  [88] "fclust"             "fda"             "fdrtool"
#>  [91] "fds"                "fitDTVARMxID"    "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"
```

```
#> [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"         "metaDyn"          "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/