Session Info

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Session

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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_1.0.5  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_1.1.1       RefManageR_1.4.0 otel_0.2.0
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#> [25] rlang_1.1.7      jsonlite_2.0.0   stringi_1.8.7
```

Packages

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

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

```
#> [112] "future.apply"      "gargle"            "generics"
#> [115] "gert"              "ggplot2"           "ggrepel"
#> [118] "gh"                "gitcreds"          "glasso"
#> [121] "glmnet"            "globals"           "glue"
#> [124] "googledrive"       "googlesheets4"     "gower"
#> [127] "GPArotation"       "GPfit"             "graphicalVAR"
#> [130] "gridExtra"         "gsubfn"            "gtable"
#> [133] "gtools"            "hardhat"           "haven"
#> [136] "hdrcde"            "here"              "highr"
#> [139] "Hmisc"             "hms"               "htmlTable"
#> [142] "htmltools"         "htmlwidgets"       "httpgd"
#> [145] "httpuv"            "httr"              "httr2"
#> [148] "ids"               "ifaTools"          "igraph"
#> [151] "infer"             "ini"               "inline"
#> [154] "ipred"             "isoband"           "iterators"
#> [157] "jomo"              "jpeg"              "jquerylib"
#> [160] "jsonlite"          "jsonvalidate"      "kernlab"
#> [163] "knitr"             "ks"                "labeling"
#> [166] "Lahman"            "languageserver"    "later"
#> [169] "latex2exp"         "lava"              "lavaan"
#> [172] "lazyeval"          "lhs"               "lifecycle"
#> [175] "lintr"             "listenv"           "litedown"
#> [178] "littler"           "lme4"              "lmtest"
#> [181] "locfit"            "longMI"            "loo"
#> [184] "lubridate"         "magick"            "magrittr"
#> [187] "markdown"          "MatrixModels"      "matrixStats"
#> [190] "mclust"            "memoise"           "metaSEM"
#> [193] "metaVAR"           "mice"              "microbenchmark"
#> [196] "mime"              "miniUI"            "minqa"
#> [199] "mitml"             "mize"              "mlVAR"
#> [202] "mnormt"            "modeldata"         "modelenv"
#> [205] "modelr"            "MplusAutomation"   "multicool"
#> [208] "mvtnorm"           "nloptr"            "numDeriv"
#> [211] "nycflights13"      "OpenMx"            "openssl"
#> [214] "ordinal"           "otel"              "pan"
#> [217] "pander"            "parallelly"        "parsnip"
#> [220] "patchwork"         "pbapply"           "pbivnorm"
#> [223] "pbkrtest"          "pcaPP"             "pdftools"
#> [226] "pillar"            "pkgbuild"          "pkgconfig"
#> [229] "pkgdown"           "pkgload"           "plogr"
#> [232] "plyr"              "png"               "posterior"
#> [235] "pracma"            "praise"            "prettyunits"
#> [238] "printr"            "processx"          "prodlim"
#> [241] "profvis"           "progress"          "progressr"
#> [244] "promises"          "proto"             "ps"
```

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

```
#> [382] "class"             "cluster"           "codetools"
#> [385] "compiler"          "datasets"          "foreign"
#> [388] "graphics"          "grDevices"         "grid"
#> [391] "KernSmooth"        "lattice"           "MASS"
#> [394] "Matrix"            "methods"           "mgcv"
#> [397] "nlme"              "nnet"              "parallel"
#> [400] "rpart"             "spatial"           "splines"
#> [403] "stats"             "stats4"            "survival"
#> [406] "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/