

Session Info

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Session

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sessionInfo()

#> R version 4.5.1 (2025-06-13)
#> 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 3.12.0
#>
#> 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
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#> tzcode source: system (glibc)
#>
#> attached base packages:
#> [1] stats      graphics  grDevices  utils      datasets  methods   base
#>
#> other attached packages:
#> [1] lavaan_0.6-20   semmcci_1.1.5   rProject_0.0.21
#>
#> loaded via a namespace (and not attached):
#> [1] httr_1.4.7      cli_3.6.5.9000  knitr_1.50      rlang_1.1.6
#> [5] xfun_0.53       stringi_1.8.7   highr_0.11      generics_0.1.4
#> [9] jsonlite_2.0.0  glue_1.8.0      backports_1.5.0 pbivnorm_0.6.0
#> [13] plyr_1.8.9      rprojroot_2.1.1 stats4_4.5.1     RefManageR_1.4.0
#> [17] quadprog_1.5-8  evaluate_1.0.5  lifecycle_1.0.4 stringr_1.5.2
#> [21] compiler_4.5.1  Rcpp_1.1.0      timechange_0.3.0 bibtex_0.5.1
#> [25] R6_2.6.1        parallel_4.5.1  mnormt_2.1.1    magrittr_2.0.4
#> [29] tools_4.5.1     lubridate_1.9.4 xml2_1.4.0

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Packages

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

#> [1] "bmemLavaan"      "mi"             "rsem"
#> [4] "sem"             "semmcci"        "abind"
#> [7] "Amelia"          "arm"            "arrow"
#> [10] "ash"             "askpass"        "assertthat"
#> [13] "backports"       "base64enc"      "betaDelta"

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#> [16] "betaMC"          "betaNB"          "betaSandwich"
#> [19] "BH"              "bibtex"          "BiocManager"
#> [22] "bit"             "bit64"           "bitops"
#> [25] "blob"            "bootStateSpace"  "brew"
#> [28] "brio"            "broom"           "bslib"
#> [31] "cachem"          "callr"           "car"
#> [34] "caracas"         "carData"         "cellranger"
#> [37] "cfr"             "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] "fitDTVARmX"      "FNN"             "fontawesome"

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#> [97] "forcats"      "foreach"      "Formula"
#> [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"        "hdcrcde"
#> [130] "here"         "highr"        "Hmisc"
#> [133] "hms"          "htmlTable"    "htmltools"
#> [136] "htmlwidgets" "httpuv"       "httr"
#> [139] "httr2"        "ids"          "ifaTools"
#> [142] "igraph"       "infer"        "ini"
#> [145] "inline"       "ipred"        "isoband"
#> [148] "iterators"    "jomo"         "jpeg"
#> [151] "jquerylib"    "jsonlite"     "jsonvalidate"
#> [154] "kernlab"      "knitr"        "ks"
#> [157] "labeling"     "Lahman"       "languageserver"
#> [160] "later"        "latex2exp"    "lava"
#> [163] "lavaan"       "lazyeval"     "lhs"
#> [166] "lifecycle"    "lintr"        "listenv"
#> [169] "litedown"     "littler"      "lme4"
#> [172] "locfit"       "longMI"       "loo"
#> [175] "lubridate"    "magick"       "magrittr"

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#> [178]	"markdown"	"MatrixModels"	"matrixStats"
#> [181]	"mclust"	"memoise"	"metaSEM"
#> [184]	"metaVAR"	"mice"	"microbenchmark"
#> [187]	"mime"	"miniUI"	"minqa"
#> [190]	"mitml"	"mize"	"mlVAR"
#> [193]	"mnormt"	"modeldata"	"modelenv"
#> [196]	"modelr"	"MplusAutomation"	"multicool"
#> [199]	"mvtnorm"	"nloptr"	"numDeriv"
#> [202]	"nycflights13"	"OpenMx"	"openssl"
#> [205]	"ordinal"	"pan"	"pander"
#> [208]	"parallelly"	"parsnip"	"patchwork"
#> [211]	"pbapply"	"pbivnorm"	"pbkrtest"
#> [214]	"pcaPP"	"pdftools"	"pillar"
#> [217]	"pkgbuild"	"pkgconfig"	"pkgdown"
#> [220]	"pkgload"	"plogr"	"plyr"
#> [223]	"png"	"posterior"	"pracma"
#> [226]	"praise"	"prettyunits"	"printr"
#> [229]	"processx"	"prodlim"	"profvis"
#> [232]	"progress"	"progressr"	"promises"
#> [235]	"proto"	"ps"	"psych"
#> [238]	"purrr"	"qgraph"	"qpdf"
#> [241]	"quadprog"	"quantreg"	"quarto"
#> [244]	"QuickJSR"	"R.cache"	"R.methodsS3"
#> [247]	"R.oo"	"R.utils"	"R2jags"
#> [250]	"R2WinBUGS"	"R6"	"ragg"
#> [253]	"rainbow"	"rappdirs"	"rbibutils"
#> [256]	"rcmdcheck"	"RColorBrewer"	"Rcpp"

#> [259]	"RcppArmadillo"	"RcppEigen"	"RcppGSL"
#> [262]	"RcppParallel"	"RcppTOML"	"RCurl"
#> [265]	"Rdpack"	"readr"	"readxl"
#> [268]	"recipes"	"RefManageR"	"reformulas"
#> [271]	"rematch"	"rematch2"	"remotes"
#> [274]	"reprex"	"reshape2"	"reticulate"
#> [277]	"rex"	"rhub"	"rjags"
#> [280]	"rlang"	"RMariaDB"	"rmarkdown"
#> [283]	"roxygen2"	"rpf"	"RPostgres"
#> [286]	"rProject"	"rprojroot"	"rsample"
#> [289]	"RSQLite"	"rstan"	"rstantools"
#> [292]	"rstudioapi"	"rversions"	"rvest"
#> [295]	"Ryacas"	"S7"	"sass"
#> [298]	"scales"	"selectr"	"semlbci"
#> [301]	"semmccci"	"sessioninfo"	"sfd"
#> [304]	"shape"	"shiny"	"simStateSpace"
#> [307]	"slider"	"snow"	"snowfall"
#> [310]	"sourcetools"	"SparseM"	"sparsevctrs"
#> [313]	"SQUAREM"	"StanHeaders"	"stringi"
#> [316]	"stringr"	"styler"	"symSEM"
#> [319]	"sys"	"systemfonts"	"tailor"
#> [322]	"tensorA"	"testthat"	"texreg"
#> [325]	"textshaping"	"tibble"	"tidymodels"
#> [328]	"tidyr"	"tidyselect"	"tidyverse"
#> [331]	"timechange"	"timeDate"	"tinytex"
#> [334]	"tune"	"tzdb"	"ucminf"
#> [337]	"urlchecker"	"usethis"	"utf8"

```

#> [340] "uuid"          "V8"          "vctrs"
#> [343] "viridisLite"   "vroom"       "waldo"
#> [346] "warp"          "whisker"     "whoami"
#> [349] "withr"         "workflows"   "workflowsets"
#> [352] "xfun"          "xml2"        "xmlparsedata"
#> [355] "xopen"         "xtable"      "yaml"
#> [358] "yardstick"     "zip"         "base"
#> [361] "boot"          "class"       "cluster"
#> [364] "codetools"     "compiler"    "datasets"
#> [367] "foreign"       "graphics"    "grDevices"
#> [370] "grid"          "KernSmooth" "lattice"
#> [373] "MASS"          "Matrix"      "methods"
#> [376] "mgcv"          "nlme"        "nnet"
#> [379] "parallel"      "rpart"       "spatial"
#> [382] "splines"       "stats"       "stats4"
#> [385] "survival"      "tcltk"       "tools"
#> [388] "utils"

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References

- Pesigan, I. J. A., & Cheung, S. F. (2024). Monte Carlo confidence intervals for the indirect effect with missing data. *Behavior Research Methods*, 56(3), 1678–1696. <https://doi.org/10.3758/s13428-023-02114-4>
- R Core Team. (2025). *R: A language and environment for statistical computing*. R Foundation for Statistical Computing. Vienna, Austria. <https://www.R-project.org/>