

# Session Info

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## Session

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sessionInfo()

#> R version 4.4.1 (2024-06-14)
#> Platform: x86_64-pc-linux-gnu
#> Running under: Ubuntu 22.04.4 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/libopenblas-p0.3.20.so; LAPACK version 3.10.3
#>
#> 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_0.6-18      semmcci_1.1.4.9000 rProject_0.0.14
#>
#> loaded via a namespace (and not attached):
#> [1] httr_1.4.7      cli_3.6.3.9000   knitr_1.48      rlang_1.1.4
#> [5] xfun_0.47       stringi_1.8.4    highr_0.11      generics_0.1.3
#> [9] jsonlite_1.8.8  glue_1.7.0       backports_1.5.0 pbivnorm_0.6.0
#> [13] plyr_1.8.9      rprojroot_2.0.4  stats4_4.4.1    RefManageR_1.4.0
#> [17] quadprog_1.5-8  evaluate_0.24.0  lifecycle_1.0.4 stringr_1.5.1
#> [21] compiler_4.4.1  Rcpp_1.0.13      timechange_0.3.0 bibtex_0.5.1
#> [25] R6_2.5.1        parallel_4.4.1   mnormt_2.1.1    magrittr_2.0.3
#> [29] tools_4.4.1     lubridate_1.9.3  xml2_1.3.6

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## Packages

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

#> [1] "Amelia"      "bmemLavaan"    "cfr"
#> [4] "gert"        "mi"            "openssl"
#> [7] "rmarkdown"   "rProject"      "rsem"
#> [10] "sem"         "semmcci"       "V8"
#> [13] "xfun"        "abind"         "arm"

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#> [16] "arrow"          "ash"            "AsioHeaders"
#> [19] "askpass"        "assertthat"     "backports"
#> [22] "base64enc"      "betaDelta"      "betaMC"
#> [25] "betaNB"         "betaSandwich"   "BH"
#> [28] "bibtex"         "BiocManager"    "bit"
#> [31] "bit64"          "bitops"         "blob"
#> [34] "brew"           "brio"           "broom"
#> [37] "bslib"          "cachem"         "callr"
#> [40] "car"            "caracas"        "carData"
#> [43] "cellranger"     "cfrfr"          "checkmate"
#> [46] "cli"            "clipr"          "clock"
#> [49] "clusterGeneration" "coda"          "c0de"
#> [52] "collections"    "colorspace"     "commonmark"
#> [55] "conflicted"     "corpcor"        "covr"
#> [58] "cowplot"        "cpp11"          "crayon"
#> [61] "credentials"    "crosstalk"      "cTMed"
#> [64] "ctsem"          "curl"           "cyclocomp"
#> [67] "data.table"     "DBI"            "dbplyr"
#> [70] "Deriv"          "desc"           "deSolve"
#> [73] "devtools"       "diagram"        "dials"
#> [76] "DiceDesign"     "diffobj"        "digest"
#> [79] "distributional" "distro"         "doBy"
#> [82] "docopt"         "doFuture"       "downlit"
#> [85] "dplyr"          "DT"             "dtplyr"
#> [88] "duckdb"         "dynr"           "dynUtils"
#> [91] "ellipse"        "ellipsis"       "evaluate"
#> [94] "expm"           "fansI"          "farver"

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#> [97] "fastDummies"      "fastmap"          "fclust"
#> [100] "fda"              "fdrtool"          "fds"
#> [103] "fitCTVARMx"       "fitDTVARMx"       "FNN"
#> [106] "fontawesome"      "forcats"          "foreach"
#> [109] "Formula"          "fs"                "fst"
#> [112] "fstcore"          "frrrr"             "future"
#> [115] "future.apply"     "gargle"            "generics"
#> [118] "gert"              "ggplot2"           "ggrepel"
#> [121] "gh"                "gitcreds"          "glasso"
#> [124] "glmnet"            "globals"           "glue"
#> [127] "googledrive"      "googlesheets4"    "gower"
#> [130] "GPArotation"      "GPfit"             "graphicalVAR"
#> [133] "gridExtra"        "gsubfn"            "gtable"
#> [136] "gtools"            "hardhat"           "haven"
#> [139] "hdcrcde"          "here"              "highr"
#> [142] "Hmisc"             "hms"               "htmlTable"
#> [145] "htmltools"         "htmlwidgets"       "httpgd"
#> [148] "httpuv"            "httr"              "httr2"
#> [151] "ids"               "ifaTools"          "igraph"
#> [154] "infer"             "ini"                "inline"
#> [157] "ipred"             "isoband"           "iterators"
#> [160] "jomo"              "jpeg"              "jquerylib"
#> [163] "jsonlite"          "jsonvalidate"       "kernlab"
#> [166] "knitr"             "ks"                 "labeling"
#> [169] "Lahman"            "languageserver"    "later"
#> [172] "latex2exp"         "lava"              "lavaan"
#> [175] "lazyeval"          "lhs"                "lifecycle"

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#> [178] "lintr"           "listenv"         "littler"
#> [181] "lme4"            "locfit"          "longMI"
#> [184] "loo"             "lubridate"       "magick"
#> [187] "magrittr"        "markdown"        "MatrixModels"
#> [190] "matrixStats"     "mclust"          "memoise"
#> [193] "metaSEM"         "metaVAR"         "mice"
#> [196] "microbenchmark" "mime"            "miniUI"
#> [199] "minqa"           "mitml"           "mize"
#> [202] "mlVAR"           "mnormt"          "modeldata"
#> [205] "modelenv"        "modelr"          "MplusAutomation"
#> [208] "multicool"       "munsell"         "mvtnorm"
#> [211] "nloptr"          "numDeriv"        "nycflights13"
#> [214] "OpenMx"          "openssl"         "ordinal"
#> [217] "pan"             "pander"          "parallelly"
#> [220] "parsnip"         "patchwork"       "pbapply"
#> [223] "pbivnorm"        "pbkrtest"        "pcaPP"
#> [226] "pdftools"        "pillar"          "pkgbuild"
#> [229] "pkgconfig"       "pkgdown"         "pkgload"
#> [232] "plogr"           "plyr"            "png"
#> [235] "posterior"       "pracma"          "praise"
#> [238] "prettyunits"     "printr"          "processx"
#> [241] "prodlm"          "profvis"         "progress"
#> [244] "progressr"       "promises"        "proto"
#> [247] "ps"              "psych"           "purrr"
#> [250] "qgraph"          "qpdf"            "quadprog"
#> [253] "quantreg"        "quarto"          "QuickJSR"
#> [256] "R.cache"         "R.methodsS3"     "R.oo"

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#> [259] "R.utils"      "R6"           "ragg"
#> [262] "rainbow"      "rappdirs"     "rbibutils"
#> [265] "rcmdcheck"    "RColorBrewer" "Rcpp"
#> [268] "RcppArmadillo" "RcppEigen"    "RcppGSL"
#> [271] "RcppParallel" "RcppTOML"     "RCurl"
#> [274] "Rdpack"       "readr"        "readxl"
#> [277] "recipes"      "RefManageR"   "rematch"
#> [280] "rematch2"     "remotes"      "reprex"
#> [283] "reshape2"     "reticulate"   "rex"
#> [286] "rhub"         "rlang"        "RMariaDB"
#> [289] "rmarkdown"    "roxygen2"     "rpf"
#> [292] "RPostgres"    "rProject"     "rprojroot"
#> [295] "rsample"      "RSQLite"      "rstan"
#> [298] "rstantools"   "rstudioapi"   "rversions"
#> [301] "rvest"        "Ryacas"       "sass"
#> [304] "scales"       "selectr"      "semlbci"
#> [307] "semmcci"      "sessioninfo"  "sfd"
#> [310] "shape"        "shiny"        "simStateSpace"
#> [313] "slider"       "snow"         "snowfall"
#> [316] "sourcetools"  "SparseM"      "SQUAREM"
#> [319] "StanHeaders"  "statmod"      "stringi"
#> [322] "stringr"      "styler"       "symSEM"
#> [325] "sys"          "systemfonts"  "tensorA"
#> [328] "testthat"     "texreg"       "textshaping"
#> [331] "tibble"       "tidymodels"   "tidyr"
#> [334] "tidyselect"   "tidyverse"    "timechange"
#> [337] "timeDate"     "tinytex"      "tune"

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#> [340] "tzdb"          "ucminf"        "unigd"
#> [343] "urlchecker"    "usethis"       "utf8"
#> [346] "uuid"          "V8"            "vctrs"
#> [349] "viridis"       "viridisLite"   "vroom"
#> [352] "waldo"         "warp"          "whisker"
#> [355] "whoami"        "withr"         "workflows"
#> [358] "workflowsets"  "xfun"          "xml2"
#> [361] "xmlparsedata"  "xopen"         "xtable"
#> [364] "yaml"          "yardstick"     "zip"
#> [367] "base"          "boot"          "class"
#> [370] "cluster"       "codetools"     "compiler"
#> [373] "datasets"      "foreign"       "graphics"
#> [376] "grDevices"     "grid"          "KernSmooth"
#> [379] "lattice"       "MASS"          "Matrix"
#> [382] "methods"       "mgcv"          "nlme"
#> [385] "nnet"          "parallel"      "rpart"
#> [388] "spatial"       "splines"       "stats"
#> [391] "stats4"        "survival"      "tcltk"
#> [394] "tools"         "utils"

```

## References

- Pesigan, I. J. A., & Cheung, S. F. (2023). 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. (2024). *R: A language and environment for statistical computing*. R Foundation for Statistical Computing. Vienna, Austria. <https://www.R-project.org/>