

# Session Info

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## Session

```
sessionInfo()  
  
#> R version 4.4.0 (2024-04-24)  
#> 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_0.6-17      semmcci_1.1.4.9000 rProject_0.0.10
#>
#> loaded via a namespace (and not attached):
#> [1] httr_1.4.7          cli_3.6.2.9000     knitr_1.46         rlang_1.1.3
#> [5] xfun_0.43           stringi_1.8.3      highr_0.10         generics_0.1.3
#> [9] jsonlite_1.8.8      glue_1.7.0         backports_1.4.1    pbivnorm_0.6.0
#> [13] plyr_1.8.9          rprojroot_2.0.4    stats4_4.4.0       RefManageR_1.4.0
#> [17] quadprog_1.5-8      evaluate_0.23      lifecycle_1.0.4    stringr_1.5.1
#> [21] compiler_4.4.0      Rcpp_1.0.12        timechange_0.3.0    bibtex_0.5.1
#> [25] rstudioapi_0.16.0   R6_2.5.1           parallel_4.4.0     mnormt_2.1.1
#> [29] magrittr_2.0.3      tools_4.4.0        lubridate_1.9.3     xml2_1.3.6

```

## Packages

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unname(installed.packages()[, 1])
#> [1] "Amelia"          "arm"              "betaDelta"        "betaMC"
#> [5] "betaNB"          "betaSandwich"     "bmemLavaan"        "cli"
#> [9] "coda"            "mi"               "rProject"          "rsem"
#> [13] "sem"             "semmcci"          "simStateSpace"     "abind"
#> [17] "arrow"           "ash"              "AsioHeaders"       "askpass"

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#> [21] "assertthat"      "backports"      "base64enc"      "betaDelta"
#> [25] "betaMC"          "betaNB"         "betaSandwich"   "BH"
#> [29] "bibtex"          "BiocManager"    "bit"            "bit64"
#> [33] "bitops"          "blob"           "brew"           "brio"
#> [37] "broom"           "bslib"          "cachem"         "callr"
#> [41] "car"             "caracas"        "carData"        "cellranger"
#> [45] "cfr"            "checkmate"      "cli"            "clipr"
#> [49] "clock"           "cOde"           "collections"    "colorspace"
#> [53] "commonmark"     "conflicted"     "corpcor"        "covr"
#> [57] "cpp11"           "crayon"         "credentials"     "crosstalk"
#> [61] "cTMed"           "ctsem"          "curl"           "cyclocomp"
#> [65] "data.table"     "DBI"            "dbplyr"         "Deriv"
#> [69] "desc"           "deSolve"        "devtools"       "diagram"
#> [73] "dials"          "DiceDesign"     "diffobj"        "digest"
#> [77] "distributional" "distro"         "doBy"           "docopt"
#> [81] "doFuture"       "downlit"        "dplyr"          "DT"
#> [85] "dtplyr"         "duckdb"         "dynr"           "dynUtils"
#> [89] "ellipse"        "ellipsis"       "evaluate"       "expm"
#> [93] "fans"          "farver"         "fastmap"        "fclust"
#> [97] "fda"           "fdrtool"        "fds"            "FNN"
#> [101] "fontawesome"    "forcats"        "foreach"        "Formula"
#> [105] "fs"            "fst"           "fstcore"        "furrr"
#> [109] "future"         "future.apply"   "gargle"         "generics"
#> [113] "gert"           "ggplot2"        "ggrepel"        "gh"
#> [117] "gitcreds"       "glasso"         "glmnet"         "globals"
#> [121] "glue"           "googledrive"    "googlesheets4"  "gower"
#> [125] "GPfit"          "gridExtra"      "gtable"         "gtools"

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#> [129] "hardhat"      "haven"      "hrcde"      "here"
#> [133] "highr"        "Hmisc"      "hms"        "htmlTable"
#> [137] "htmltools"    "htmlwidgets" "httpgd"     "httpuv"
#> [141] "httr"         "httr2"      "ids"        "ifTools"
#> [145] "igraph"       "infer"      "ini"        "inline"
#> [149] "ipred"        "isoband"    "iterators"  "jomo"
#> [153] "jpeg"         "jquerylib"  "jsonlite"   "jsonvalidate"
#> [157] "kernlab"      "knitr"      "ks"         "labeling"
#> [161] "Lahman"       "languageserver" "later"      "latex2exp"
#> [165] "lava"         "lavaan"     "lazyeval"   "lhs"
#> [169] "lifecycle"    "lintr"      "listenv"    "littler"
#> [173] "lme4"         "locfit"     "longMI"     "loo"
#> [177] "lubridate"    "magick"     "magrittr"   "markdown"
#> [181] "MatrixModels" "matrixStats" "mclust"     "memoise"
#> [185] "metaSEM"      "mice"       "microbenchmark" "mime"
#> [189] "miniUI"       "minqa"      "mitml"      "mize"
#> [193] "mnormt"       "modeldata"  "modelenv"   "modelr"
#> [197] "multicool"    "munsell"    "mvtnorm"    "nloptr"
#> [201] "numDeriv"     "nycflights13" "OpenMx"     "openssl"
#> [205] "ordinal"      "pan"        "parallelly" "parsnip"
#> [209] "patchwork"    "pbapply"    "pbivnorm"   "pbkrtest"
#> [213] "pcaPP"        "pdftools"   "pillar"     "pkgbuild"
#> [217] "pkgconfig"    "pkgdown"    "pkgload"    "plogr"
#> [221] "plyr"         "png"        "posterior"  "pracma"
#> [225] "praise"       "prettyunits" "printr"     "processx"
#> [229] "prodlim"      "profvis"    "progress"   "progressr"
#> [233] "promises"     "ps"         "psych"      "purrr"

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#> [237] "qgraph"          "qpdf"            "quadprog"        "quantreg"
#> [241] "quarto"          "QuickJSR"        "R.cache"          "R.methodsS3"
#> [245] "R.oo"            "R.utils"         "R6"               "ragg"
#> [249] "rainbow"         "rappdirs"        "rbibutils"        "rcmdcheck"
#> [253] "RColorBrewer"    "Rcpp"            "RcppArmadillo"    "RcppEigen"
#> [257] "RcppGSL"         "RcppParallel"    "RcppTOML"         "RCurl"
#> [261] "Rdpack"          "readr"           "readxl"           "recipes"
#> [265] "RefManagerR"     "rematch"         "rematch2"         "remotes"
#> [269] "reprex"          "reshape2"        "reticulate"       "rex"
#> [273] "rhub"            "rlang"           "RMariaDB"         "rmarkdown"
#> [277] "roxygen2"        "rpf"             "RPostgres"        "rProject"
#> [281] "rprojroot"       "rsample"         "RSQLite"          "rstan"
#> [285] "rstantools"      "rstudioapi"      "rversions"        "rvest"
#> [289] "Ryacas"          "sass"            "scales"           "selectr"
#> [293] "semlbci"         "semmcci"         "sessioninfo"      "shape"
#> [297] "shiny"           "simStateSpace"   "slider"           "snow"
#> [301] "snowfall"        "sourcetools"     "SparseM"          "SQUAREM"
#> [305] "StanHeaders"     "stringi"         "stringr"          "styler"
#> [309] "symSEM"          "sys"             "systemfonts"      "tensorA"
#> [313] "testthat"        "textshaping"     "tibble"           "tidymodels"
#> [317] "tidyr"           "tidyselect"      "tidyverse"        "timechange"
#> [321] "timeDate"        "tinytex"         "tune"             "tzdb"
#> [325] "ucminf"          "unigd"           "urlchecker"       "usethis"
#> [329] "utf8"           "uuid"            "V8"               "vctrs"
#> [333] "viridis"         "viridisLite"     "vroom"            "waldo"
#> [337] "warp"           "whisker"         "whoami"           "withr"
#> [341] "workflows"       "workflowsets"    "xfun"             "xml2"

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```

#> [345] "xmlparsedata" "xopen"      "xtable"      "yaml"
#> [349] "yardstick"    "zip"        "base"        "boot"
#> [353] "class"        "cluster"    "codetools"   "compiler"
#> [357] "datasets"     "foreign"    "graphics"    "grDevices"
#> [361] "grid"         "KernSmooth" "lattice"     "MASS"
#> [365] "Matrix"       "methods"    "mgcv"        "nlme"
#> [369] "nnet"         "parallel"   "rpart"       "spatial"
#> [373] "splines"      "stats"      "stats4"      "survival"
#> [377] "tcltk"        "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*. <https://doi.org/10.3758/s13428-023-02114-4>
- R Core Team. (2023). *R: A language and environment for statistical computing*. R Foundation for Statistical Computing. Vienna, Austria. <https://www.R-project.org/>