

# 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_0.0.13
#>
#> loaded via a namespace (and not attached):
#> [1] httr_1.4.7      cli_3.6.2.9000   knitr_1.47      rlang_1.1.4
#> [5] xfun_0.45       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_4.4.0    RefManageR_1.4.0
#> [17] quadprog_1.5-8  evaluate_0.24.0  lifecycle_1.0.4 stringr_1.5.1
#> [21] compiler_4.4.0  Rcpp_1.0.12      timechange_0.3.0 bibtex_0.5.1
#> [25] R6_2.5.1        parallel_4.4.0   mnormt_2.1.1    magrittr_2.0.3
#> [29] tools_4.4.0     lubridate_1.9.3  xml2_1.3.6

```

## Packages

```

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

#> [1] "Amelia"      "arm"          "bmemLavaan"   "cli"
#> [5] "downlit"     "evaluate"     "mi"           "rlang"
#> [9] "rProject"    "rsem"         "sem"          "semmcci"
#> [13] "tinytex"     "xfun"         "abind"        "arrow"
#> [17] "ash"         "AsioHeaders"  "askpass"      "assertthat"

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#> [21] "backports"      "base64enc"      "betaDelta"      "betaMC"
#> [25] "betaNB"         "betaSandwich"   "BH"              "bibtex"
#> [29] "BiocManager"    "bit"            "bit64"           "bitops"
#> [33] "blob"           "brew"           "brio"            "broom"
#> [37] "bslib"          "cachem"         "callr"           "car"
#> [41] "caracas"        "carData"        "cellranger"      "cfrfr"
#> [45] "checkmate"      "cli"            "clipr"           "clock"
#> [49] "coda"           "c0de"           "collections"     "colorspace"
#> [53] "commonmark"     "conflicted"     "corpcor"         "covr"
#> [57] "cowplot"        "cpp11"          "crayon"          "credentials"
#> [61] "crosstalk"      "cTMed"          "ctsem"           "curl"
#> [65] "cyclocomp"      "data.table"     "DBI"             "dbplyr"
#> [69] "Deriv"          "desc"           "deSolve"         "devtools"
#> [73] "diagram"        "dials"          "DiceDesign"      "diffobj"
#> [77] "digest"         "distributional" "distro"          "doBy"
#> [81] "docopt"         "doFuture"       "downlit"         "dplyr"
#> [85] "DT"             "dtplyr"         "duckdb"          "dynr"
#> [89] "dynUtils"       "ellipse"        "ellipsis"        "evaluate"
#> [93] "expm"           "fansI"          "farver"          "fastDummies"
#> [97] "fastmap"        "fclust"         "fda"             "fdrtool"
#> [101] "fds"           "FNN"            "fontawesome"     "forcats"
#> [105] "foreach"        "Formula"        "fs"              "fst"
#> [109] "fstcore"        "furry"          "future"          "future.apply"
#> [113] "gargle"         "generics"       "gert"            "ggplot2"
#> [117] "ggrepel"        "gh"             "gitcreds"        "glasso"
#> [121] "glmnet"         "globals"        "glue"            "googledrive"
#> [125] "googlesheets4" "gower"          "GPfit"           "gridExtra"

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

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

#> [345]	"warp"	"whisker"	"whoami"	"withr"
#> [349]	"workflows"	"workflowsets"	"xfun"	"xml2"
#> [353]	"xmlparsedata"	"xopen"	"xtable"	"yaml"
#> [357]	"yardstick"	"zip"	"base"	"boot"
#> [361]	"class"	"cluster"	"codetools"	"compiler"
#> [365]	"datasets"	"foreign"	"graphics"	"grDevices"
#> [369]	"grid"	"KernSmooth"	"lattice"	"MASS"
#> [373]	"Matrix"	"methods"	"mgcv"	"nlme"
#> [377]	"nnet"	"parallel"	"rpart"	"spatial"
#> [381]	"splines"	"stats"	"stats4"	"survival"
#> [385]	"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*, 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/>