# Session Info

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## Session

```
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/libopenblasp-r0.3.20.so;  LAPACK version 3.10.
#>
#> 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_0.0.14
#>
#> loaded via a namespace (and not attached):
#>  [1] backports_1.5.0  R6_2.5.1         lubridate_1.9.3  xfun_0.46
#>  [5] magrittr_2.0.3   glue_1.7.0       stringr_1.5.1    knitr_1.48
#>  [9] timechange_0.3.0 generics_0.1.3   lifecycle_1.0.4  xml2_1.3.6
#> [13] cli_3.6.3.9000   bibtex_0.5.1     compiler_4.4.1   highr_0.11
#> [17] rprojroot_2.0.4  plyr_1.8.9       httr_1.4.7       tools_4.4.1
#> [21] evaluate_0.24.0  Rcpp_1.0.13      RefManageR_1.4.0 rlang_1.1.4
#> [25] jsonlite_1.8.8   stringi_1.8.4
```

## Packages

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

```
#>   [1] "betaDelta"       "bslib"           "cffr"            "cli"
#>   [5] "devtools"        "gert"            "httr2"           "quarto"
#>   [9] "Rcpp"            "rProject"        "shiny"           "tinytex"
#>  [13] "usethis"         "withr"           "xfun"            "yaml"
#>  [17] "abind"           "arrow"           "ash"             "AsioHeaders"
#>  [21] "askpass"         "assertthat"      "backports"       "base64enc"
```

```
#>  [25] "betaDelta"       "betaMC"          "betaNB"          "betaSandwich"
#>  [29] "BH"              "bibtex"          "BiocManager"     "bit"
#>  [33] "bit64"           "bitops"          "blob"            "brew"
#>  [37] "brio"            "broom"           "bslib"           "cachem"
#>  [41] "callr"           "car"             "caracas"         "carData"
#>  [45] "cellranger"      "cffr"            "checkmate"       "cli"
#>  [49] "clipr"           "clock"           "coda"            "cOde"
#>  [53] "collections"     "colorspace"      "commonmark"      "conflicted"
#>  [57] "corpcor"         "covr"            "cowplot"         "cpp11"
#>  [61] "crayon"          "credentials"     "crosstalk"       "cTMed"
#>  [65] "ctsem"           "curl"            "cyclocomp"       "data.table"
#>  [69] "DBI"             "dbplyr"          "Deriv"           "desc"
#>  [73] "deSolve"         "devtools"        "diagram"         "dials"
#>  [77] "DiceDesign"      "diffobj"         "digest"          "distributional"
#>  [81] "distro"          "doBy"            "docopt"          "doFuture"
#>  [85] "downlit"         "dplyr"           "DT"              "dtplyr"
#>  [89] "duckdb"          "dynr"            "dynUtils"        "ellipse"
#>  [93] "ellipsis"        "evaluate"        "expm"            "fansi"
#>  [97] "farver"          "fastDummies"     "fastmap"         "fclust"
#> [101] "fda"             "fdrtool"         "fds"             "fitCTVARMx"
#> [105] "fitDTVARMx"      "FNN"             "fontawesome"     "forcats"
#> [109] "foreach"         "Formula"         "fs"              "fst"
#> [113] "fstcore"         "furrr"           "future"          "future.apply"
#> [117] "gargle"          "generics"        "gert"            "ggplot2"
#> [121] "ggrepel"         "gh"              "gitcreds"        "glasso"
#> [125] "glmnet"          "globals"         "glue"            "googledrive"
#> [129] "googlesheets4"   "gower"           "GPArotation"     "GPfit"
```

```
#> [133] "gridExtra"       "gsubfn"          "gtable"          "gtools"
#> [137] "hardhat"         "haven"           "hdrcde"          "here"
#> [141] "highr"           "Hmisc"           "hms"             "htmlTable"
#> [145] "htmltools"       "htmlwidgets"     "httpgd"          "httpuv"
#> [149] "httr"            "httr2"           "ids"             "ifaTools"
#> [153] "igraph"          "infer"           "ini"             "inline"
#> [157] "ipred"           "isoband"         "iterators"       "jomo"
#> [161] "jpeg"            "jquerylib"       "jsonlite"        "jsonvalidate"
#> [165] "kernlab"         "knitr"           "ks"              "labeling"
#> [169] "Lahman"          "languageserver"  "later"           "latex2exp"
#> [173] "lava"            "lavaan"          "lazyeval"        "lhs"
#> [177] "lifecycle"       "lintr"           "listenv"         "littler"
#> [181] "lme4"            "locfit"          "longMI"          "loo"
#> [185] "lubridate"       "magick"          "magrittr"        "markdown"
#> [189] "MatrixModels"    "matrixStats"     "mclust"          "memoise"
#> [193] "metaSEM"         "metaVAR"         "mice"            "microbenchmark"
#> [197] "mime"            "miniUI"          "minqa"           "mitml"
#> [201] "mize"            "mnormt"          "modeldata"       "modelenv"
#> [205] "modelr"          "MplusAutomation" "multicool"       "munsell"
#> [209] "mvtnorm"         "nloptr"          "numDeriv"        "nycflights13"
#> [213] "OpenMx"          "openssl"         "ordinal"         "pan"
#> [217] "pander"          "parallelly"      "parsnip"         "patchwork"
#> [221] "pbapply"         "pbivnorm"        "pbkrtest"        "pcaPP"
#> [225] "pdftools"        "pillar"          "pkgbuild"        "pkgconfig"
#> [229] "pkgdown"         "pkgload"         "plogr"           "plyr"
#> [233] "png"             "posterior"       "pracma"          "praise"
#> [237] "prettyunits"     "printr"          "processx"        "prodlim"
```

```
#> [241] "profvis"         "progress"        "progressr"       "promises"
#> [245] "proto"           "ps"              "psych"           "purrr"
#> [249] "qgraph"          "qpdf"            "quadprog"        "quantreg"
#> [253] "quarto"          "QuickJSR"        "R.cache"         "R.methodsS3"
#> [257] "R.oo"            "R.utils"         "R6"              "ragg"
#> [261] "rainbow"         "rappdirs"        "rbibutils"       "rcmdcheck"
#> [265] "RColorBrewer"    "Rcpp"            "RcppArmadillo"   "RcppEigen"
#> [269] "RcppGSL"         "RcppParallel"    "RcppTOML"        "RCurl"
#> [273] "Rdpack"          "readr"           "readxl"          "recipes"
#> [277] "RefManageR"      "rematch"         "rematch2"        "remotes"
#> [281] "reprex"          "reshape2"        "reticulate"      "rex"
#> [285] "rhub"            "rlang"           "RMariaDB"        "rmarkdown"
#> [289] "roxygen2"        "rpf"             "RPostgres"       "rProject"
#> [293] "rprojroot"       "rsample"         "RSQLite"         "rstan"
#> [297] "rstantools"      "rstudioapi"      "rversions"       "rvest"
#> [301] "Ryacas"          "sass"            "scales"          "selectr"
#> [305] "semlbci"         "semmcci"         "sessioninfo"     "shape"
#> [309] "shiny"           "simStateSpace"   "slider"          "snow"
#> [313] "snowfall"        "sourcetools"     "SparseM"         "SQUAREM"
#> [317] "StanHeaders"     "statmod"         "stringi"         "stringr"
#> [321] "styler"          "symSEM"          "sys"             "systemfonts"
#> [325] "tensorA"         "testthat"        "texreg"          "textshaping"
#> [329] "tibble"          "tidymodels"      "tidyr"           "tidyselect"
#> [333] "tidyverse"       "timechange"      "timeDate"        "tinytex"
#> [337] "tune"            "tzdb"            "ucminf"          "unigd"
#> [341] "urlchecker"      "usethis"         "utf8"            "uuid"
#> [345] "V8"              "vctrs"           "viridis"         "viridisLite"
```

```
#> [349] "vroom"           "waldo"           "warp"            "whisker"
#> [353] "whoami"          "withr"           "workflows"       "workflowsets"
#> [357] "xfun"            "xml2"            "xmlparsedata"    "xopen"
#> [361] "xtable"          "yaml"            "yardstick"       "zip"
#> [365] "base"            "boot"            "class"           "cluster"
#> [369] "codetools"       "compiler"        "datasets"        "foreign"
#> [373] "graphics"        "grDevices"       "grid"            "KernSmooth"
#> [377] "lattice"         "MASS"            "Matrix"          "methods"
#> [381] "mgcv"            "nlme"            "nnet"            "parallel"
#> [385] "rpart"           "spatial"         "splines"         "stats"
#> [389] "stats4"          "survival"        "tcltk"           "tools"
#> [393] "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/