Session Info

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Session

```r
sessionInfo()
```

```
#> R version 4.3.3 (2024-02-29)
#> Platform: x86_64-pc-linux-gnu (64-bit)
#> 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_0.0.10
#>
#> loaded via a namespace (and not attached):
#>  [1] backports_1.4.1  R6_2.5.1         lubridate_1.9.3  xfun_0.43
#>  [5] magrittr_2.0.3   glue_1.7.0       stringr_1.5.1    knitr_1.46
#>  [9] timechange_0.3.0 generics_0.1.3   lifecycle_1.0.4  xml2_1.3.6
#> [13] cli_3.6.2.9000   bibtex_0.5.1     compiler_4.3.3   highr_0.10
#> [17] rprojroot_2.0.4  plyr_1.8.9       httr_1.4.7       rstudioapi_0.16.0
#> [21] tools_4.3.3      evaluate_0.23    Rcpp_1.0.12      RefManageR_1.4.0
#> [25] rlang_1.1.3      jsonlite_1.8.8   stringi_1.8.3
```

Packages

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

#>  [1] "Amelia"      "arm"         "betaDelta"   "bmemLavaan"
#>  [5] "coda"        "mi"          "rsem"        "sem"
#>  [9] "semmcci"     "abind"       "arrow"       "ash"
#> [13] "AsioHeaders" "askpass"     "assertthat"  "backports"
#> [17] "base64enc"   "betaDelta"   "betaMC"      "betaNB"
#> [21] "betaSandwich" "BH"         "bibtex"      "BiocManager"
```

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

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```
#> [133] "httpgd"         "httpuv"        "httr"           "httr2"
#> [137] "ids"            "ifaTools"      "igraph"         "infer"
#> [141] "ini"            "inline"        "ipred"          "isoband"
#> [145] "iterators"      "jomo"          "jpeg"           "jquerylib"
#> [149] "jsonlite"       "jsonvalidate"  "kernlab"        "knitr"
#> [153] "ks"             "labeling"      "Lahman"         "languageserver"
#> [157] "later"          "latex2exp"     "lava"           "lavaan"
#> [161] "lazyeval"       "lhs"           "lifecycle"      "lintr"
#> [165] "listenv"        "littler"       "lme4"           "locfit"
#> [169] "longMI"         "loo"           "lubridate"      "magick"
#> [173] "magrittr"       "markdown"      "MatrixModels"   "matrixStats"
#> [177] "mclust"         "memoise"       "metaSEM"        "mice"
#> [181] "microbenchmark" "mime"          "miniUI"         "minqa"
#> [185] "mitml"          "mize"          "mnormt"         "modeldata"
#> [189] "modelenv"       "modelr"        "multicool"      "munsell"
#> [193] "mvtnorm"        "nloptr"        "numDeriv"       "nycflights13"
#> [197] "OpenMx"         "openssl"       "ordinal"        "pan"
#> [201] "parallelly"     "parsnip"       "patchwork"      "pbapply"
#> [205] "pbivnorm"       "pbkrtest"      "pcaPP"          "pdftools"
#> [209] "pillar"         "pkgbuild"      "pkgconfig"      "pkgdown"
#> [213] "pkgload"        "plogr"         "plyr"           "png"
#> [217] "posterior"      "pracma"        "praise"         "prettyunits"
#> [221] "printr"         "processx"      "prodlim"        "profvis"
#> [225] "progress"       "progressr"     "promises"       "ps"
#> [229] "psych"          "purrr"         "qgraph"         "qpdf"
#> [233] "quadprog"       "quantreg"      "quarto"         "QuickJSR"
#> [237] "R.cache"        "R.methodsS3"   "R.oo"           "R.utils"
```

```
#> [241] "R6"            "ragg"        "rainbow"        "rappdirs"
#> [245] "rbibutils"     "rcmdcheck"   "RColorBrewer"   "Rcpp"
#> [249] "RcppArmadillo" "RcppEigen"   "RcppGSL"        "RcppParallel"
#> [253] "RcppTOML"      "RCurl"       "Rdpack"         "readr"
#> [257] "readxl"        "recipes"     "RefManageR"     "rematch"
#> [261] "rematch2"      "remotes"     "reprex"         "reshape2"
#> [265] "reticulate"    "rex"         "rhub"           "rlang"
#> [269] "RMariaDB"      "rmarkdown"   "roxygen2"       "rpf"
#> [273] "RPostgres"     "rProject"    "rprojroot"      "rsample"
#> [277] "RSQLite"       "rstan"       "rstantools"     "rstudioapi"
#> [281] "rversions"     "rvest"       "Ryacas"         "sass"
#> [285] "scales"        "selectr"     "semlbci"        "semmcci"
#> [289] "sessioninfo"   "shape"       "shiny"          "simStateSpace"
#> [293] "slider"        "snow"        "snowfall"       "sourcetools"
#> [297] "SparseM"       "SQUAREM"     "StanHeaders"    "stringi"
#> [301] "stringr"       "styler"      "symSEM"         "sys"
#> [305] "systemfonts"   "tensorA"     "testthat"       "textshaping"
#> [309] "tibble"        "tidymodels"  "tidyr"          "tidyselect"
#> [313] "tidyverse"     "timechange"  "timeDate"       "tinytex"
#> [317] "tune"          "tzdb"        "ucminf"         "unigd"
#> [321] "urlchecker"    "usethis"     "utf8"           "uuid"
#> [325] "V8"            "vctrs"       "viridis"        "viridisLite"
#> [329] "vroom"         "waldo"       "warp"           "whisker"
#> [333] "whoami"        "withr"       "workflows"      "workflowsets"
#> [337] "xfun"          "xml2"        "xmlparsedata"   "xopen"
#> [341] "xtable"        "yaml"        "yardstick"      "zip"
#> [345] "base"          "boot"        "class"          "cluster"
```

```
#> [349] "codetools"     "compiler"     "datasets"     "foreign"
#> [353] "graphics"      "grDevices"    "grid"         "KernSmooth"
#> [357] "lattice"       "MASS"         "Matrix"       "methods"
#> [361] "mgcv"          "nlme"         "nnet"         "parallel"
#> [365] "rpart"         "spatial"      "splines"      "stats"
#> [369] "stats4"        "survival"     "tcltk"        "tools"
#> [373] "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/