Session Info

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Session

```r
sessionInfo()
```

```
#> R version 4.4.1 (2024-06-14)
#> Platform: x86_64-pc-linux-gnu
#> Running under: Ubuntu 22.04.5 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_1.9.4  xfun_0.49
#>  [5] magrittr_2.0.3   glue_1.8.0       stringr_1.5.1    knitr_1.49
#>  [9] timechange_0.3.0 generics_0.1.3   lifecycle_1.0.4  xml2_1.3.6
#> [13] cli_3.6.3.9001   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_1.0.1   Rcpp_1.0.13-1    RefManageR_1.4.0 rlang_1.1.4
#> [25] jsonlite_1.8.9   stringi_1.8.4
```

Packages

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

#>  [1] "cTMed"         "abind"         "arm"
#>  [4] "arrow"         "ash"           "AsioHeaders"
#>  [7] "askpass"       "assertthat"    "backports"
#> [10] "base64enc"     "betaDelta"     "betaMC"
#> [13] "betaNB"        "betaSandwich"  "BH"
#> [16] "bibtex"        "BiocManager"   "bit"
```

```
#>  [19] "bit64"             "bitops"            "blob"
#>  [22] "brew"              "brio"              "broom"
#>  [25] "bslib"             "cachem"            "callr"
#>  [28] "car"               "caracas"           "carData"
#>  [31] "cellranger"        "cffr"              "checkmate"
#>  [34] "cli"               "clipr"             "clock"
#>  [37] "clusterGeneration" "coda"              "cOde"
#>  [40] "collections"       "colorspace"        "commonmark"
#>  [43] "conflicted"        "corpcor"           "covr"
#>  [46] "cowplot"           "cpp11"             "crayon"
#>  [49] "credentials"       "crosstalk"         "cTMed"
#>  [52] "ctsem"             "curl"              "cyclocomp"
#>  [55] "data.table"        "DBI"               "dbplyr"
#>  [58] "Deriv"             "desc"              "deSolve"
#>  [61] "devtools"          "diagram"           "dials"
#>  [64] "DiceDesign"        "diffobj"           "digest"
#>  [67] "distributional"    "distro"            "doBy"
#>  [70] "docopt"            "doFuture"          "downlit"
#>  [73] "dplyr"             "DT"                "dtplyr"
#>  [76] "duckdb"            "dynr"              "dynUtils"
#>  [79] "ellipse"           "ellipsis"          "evaluate"
#>  [82] "expm"              "fansi"             "farver"
#>  [85] "fastDummies"       "fastmap"           "fclust"
#>  [88] "fda"               "fdrtool"           "fds"
#>  [91] "fitCTVARMx"        "fitDTVARMx"        "FNN"
#>  [94] "fontawesome"       "forcats"           "foreach"
#>  [97] "Formula"           "fs"                "fst"
```

```
#> [100] "fstcore"          "furrr"             "future"
#> [103] "future.apply"     "gargle"            "generics"
#> [106] "gert"             "ggplot2"           "ggrepel"
#> [109] "gh"               "gitcreds"          "glasso"
#> [112] "glmnet"           "globals"           "glue"
#> [115] "googledrive"      "googlesheets4"     "gower"
#> [118] "GPArotation"      "GPfit"             "graphicalVAR"
#> [121] "gridExtra"        "gsubfn"            "gtable"
#> [124] "gtools"           "hardhat"           "haven"
#> [127] "hdrcde"           "here"              "highr"
#> [130] "Hmisc"            "hms"               "htmlTable"
#> [133] "htmltools"        "htmlwidgets"       "httpgd"
#> [136] "httpuv"           "httr"              "httr2"
#> [139] "ids"              "ifaTools"          "igraph"
#> [142] "infer"            "ini"               "inline"
#> [145] "ipred"            "isoband"           "iterators"
#> [148] "jomo"             "jpeg"              "jquerylib"
#> [151] "jsonlite"         "jsonvalidate"      "kernlab"
#> [154] "knitr"            "ks"                "labeling"
#> [157] "Lahman"           "languageserver"    "later"
#> [160] "latex2exp"        "lava"              "lavaan"
#> [163] "lazyeval"         "lhs"               "lifecycle"
#> [166] "lintr"            "listenv"           "littler"
#> [169] "lme4"             "locfit"            "longMI"
#> [172] "loo"              "lubridate"         "magick"
#> [175] "magrittr"         "markdown"          "MatrixModels"
#> [178] "matrixStats"      "mclust"            "memoise"
```

```
#> [181] "metaSEM"         "metaVAR"          "mice"
#> [184] "microbenchmark"  "mime"             "miniUI"
#> [187] "minqa"           "mitml"            "mize"
#> [190] "mlVAR"           "mnormt"           "modeldata"
#> [193] "modelenv"        "modelr"           "MplusAutomation"
#> [196] "multicool"       "munsell"          "mvtnorm"
#> [199] "nloptr"          "numDeriv"         "nycflights13"
#> [202] "OpenMx"          "openssl"          "ordinal"
#> [205] "pan"             "pander"           "parallelly"
#> [208] "parsnip"         "patchwork"        "pbapply"
#> [211] "pbivnorm"        "pbkrtest"         "pcaPP"
#> [214] "pdftools"        "pillar"           "pkgbuild"
#> [217] "pkgconfig"       "pkgdown"          "pkgload"
#> [220] "plogr"           "plyr"             "png"
#> [223] "posterior"       "pracma"           "praise"
#> [226] "prettyunits"     "printr"           "processx"
#> [229] "prodlim"         "profvis"          "progress"
#> [232] "progressr"       "promises"         "proto"
#> [235] "ps"              "psych"            "purrr"
#> [238] "qgraph"          "qpdf"             "quadprog"
#> [241] "quantreg"        "quarto"           "QuickJSR"
#> [244] "R.cache"         "R.methodsS3"      "R.oo"
#> [247] "R.utils"         "R6"               "ragg"
#> [250] "rainbow"         "rappdirs"         "rbibutils"
#> [253] "rcmdcheck"       "RColorBrewer"     "Rcpp"
#> [256] "RcppArmadillo"   "RcppEigen"        "RcppGSL"
#> [259] "RcppParallel"    "RcppTOML"         "RCurl"
```

```
#> [262] "Rdpack"          "readr"           "readxl"
#> [265] "recipes"         "RefManageR"      "rematch"
#> [268] "rematch2"        "remotes"         "reprex"
#> [271] "reshape2"        "reticulate"      "rex"
#> [274] "rhub"            "rjags"           "rlang"
#> [277] "RMariaDB"        "rmarkdown"       "roxygen2"
#> [280] "rpf"             "RPostgres"       "rProject"
#> [283] "rprojroot"       "rsample"         "RSQLite"
#> [286] "rstan"           "rstantools"      "rstudioapi"
#> [289] "rversions"       "rvest"           "Ryacas"
#> [292] "sass"            "scales"          "selectr"
#> [295] "semlbci"         "semmcci"         "sessioninfo"
#> [298] "sfd"             "shape"           "shiny"
#> [301] "simStateSpace"   "slider"          "snow"
#> [304] "snowfall"        "sourcetools"     "SparseM"
#> [307] "SQUAREM"         "StanHeaders"     "statmod"
#> [310] "stringi"         "stringr"         "styler"
#> [313] "symSEM"          "sys"             "systemfonts"
#> [316] "tensorA"         "testthat"        "texreg"
#> [319] "textshaping"     "tibble"          "tidymodels"
#> [322] "tidyr"           "tidyselect"      "tidyverse"
#> [325] "timechange"      "timeDate"        "tinytex"
#> [328] "tune"            "tzdb"            "ucminf"
#> [331] "unigd"           "urlchecker"      "usethis"
#> [334] "utf8"            "uuid"            "V8"
#> [337] "vctrs"           "viridis"         "viridisLite"
#> [340] "vroom"           "waldo"           "warp"
```

```
#> [343] "whisker"       "whoami"         "withr"
#> [346] "workflows"      "workflowsets"   "xfun"
#> [349] "xml2"           "xmlparsedata"   "xopen"
#> [352] "xtable"         "yaml"           "yardstick"
#> [355] "zip"            "base"           "boot"
#> [358] "class"          "cluster"        "codetools"
#> [361] "compiler"       "datasets"       "foreign"
#> [364] "graphics"       "grDevices"      "grid"
#> [367] "KernSmooth"     "lattice"        "MASS"
#> [370] "Matrix"         "methods"        "mgcv"
#> [373] "nlme"           "nnet"           "parallel"
#> [376] "rpart"          "spatial"        "splines"
#> [379] "stats"          "stats4"         "survival"
#> [382] "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/