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 22.04.4 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_0.47
#>  [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] "betaSandwich"   "cffr"           "gert"
#>  [4] "openssl"        "rmarkdown"      "rProject"
#>  [7] "V8"             "xfun"           "abind"
#> [10] "arm"            "arrow"          "ash"
#> [13] "AsioHeaders"    "askpass"        "assertthat"
#> [16] "backports"      "base64enc"      "betaDelta"
```

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

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

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

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

```
#> [343] "vctrs"        "viridis"        "viridisLite"
#> [346] "vroom"        "waldo"          "warp"
#> [349] "whisker"      "whoami"         "withr"
#> [352] "workflows"    "workflowsets"   "xfun"
#> [355] "xml2"         "xmlparsedata"   "xopen"
#> [358] "xtable"       "yaml"           "yardstick"
#> [361] "zip"          "base"           "boot"
#> [364] "class"        "cluster"        "codetools"
#> [367] "compiler"     "datasets"       "foreign"
#> [370] "graphics"     "grDevices"      "grid"
#> [373] "KernSmooth"   "lattice"        "MASS"
#> [376] "Matrix"       "methods"        "mgcv"
#> [379] "nlme"         "nnet"           "parallel"
#> [382] "rpart"        "spatial"        "splines"
#> [385] "stats"        "stats4"         "survival"
#> [388] "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/