Session Info

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Session

```r
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/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_0.0.13
#>
#> loaded via a namespace (and not attached):
#>  [1] backports_1.4.1   R6_2.5.1          lubridate_1.9.3   xfun_0.44
#>  [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_4.4.0    highr_0.10
#> [17] rprojroot_2.0.4   plyr_1.8.9        httr_1.4.7        rstudioapi_0.16.0
#> [21] tools_4.4.0       evaluate_0.23     Rcpp_1.0.12       RefManageR_1.4.0
#> [25] rlang_1.1.3       jsonlite_1.8.8    stringi_1.8.4
```

Packages

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

#>   [1] "cachem"      "cTMed"       "dynUtils"    "fastmap"
#>   [5] "openssl"     "ragg"        "rProject"    "simStateSpace"
#>   [9] "systemfonts" "tinytex"     "xfun"        "abind"
#>  [13] "arrow"       "ash"         "AsioHeaders" "askpass"
#>  [17] "assertthat"  "backports"   "base64enc"   "betaDelta"
#>  [21] "betaMC"      "betaNB"      "betaSandwich" "BH"
```

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

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

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

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