Session Info

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Session

```
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
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#> 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] xfun_0.43           devtools_2.4.5.9000 remotes_2.5.0
#>  [4] processx_3.8.4      callr_3.7.6         vctrs_0.6.5
#>  [7] tools_4.4.0         ps_1.7.6            generics_0.1.3
#> [10] tibble_3.2.1        fansi_1.0.6         highr_0.10
#> [13] cffr_1.0.1          RefManageR_1.4.0    R.oo_1.26.0
#> [16] pkgconfig_2.0.3     data.table_1.15.4   desc_1.4.3
#> [19] lifecycle_1.0.4     R.cache_0.16.0      compiler_4.4.0
#> [22] stringr_1.5.1       tinytex_0.51.1      htmltools_0.5.8.1
#> [25] usethis_2.2.3       yaml_2.3.8          lazyeval_0.2.2
#> [28] later_1.3.2         pillar_1.9.0        pkgdown_2.0.9
#> [31] crayon_1.5.2        R.utils_2.12.3      ellipsis_0.3.2
#> [34] cachem_1.0.8        sessioninfo_1.2.2   lintr_3.1.2
#> [37] styler_1.10.3       distro_0.1.0        digest_0.6.35
#> [40] stringi_1.8.4       purrr_1.0.2         quarto_1.4
#> [43] bibtex_0.5.1        rprojroot_2.0.4     fastmap_1.1.1
#> [46] cli_3.6.2.9000      magrittr_2.0.3      pkgbuild_1.4.4
#> [49] utf8_1.2.4          withr_3.0.0         backports_1.4.1
#> [52] cyclocomp_1.1.1     lubridate_1.9.3     timechange_0.3.0
```

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#> [55] roxygen2_7.3.1      rmarkdown_2.26      httr_1.4.7
#> [58] R.methodsS3_1.8.2   memoise_2.0.1       evaluate_0.23
#> [61] knitr_1.46          covr_3.6.4          rex_1.2.1
#> [64] rlang_1.1.3         Rcpp_1.0.12         glue_1.7.0
#> [67] xml2_1.3.6          pkgload_1.3.4       rstudioapi_0.16.0
#> [70] jsonlite_1.8.8      R6_2.5.1            plyr_1.8.9
#> [73] fs_1.6.4
```

Packages

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

#>  [1] "cTMed"        "dynUtils"     "manCTMed"     "rProject"
#>  [5] "simStateSpace" "tinytex"      "abind"        "arrow"
#>  [9] "ash"          "AsioHeaders"  "askpass"      "assertthat"
#> [13] "backports"    "base64enc"    "betaDelta"    "betaMC"
#> [17] "betaNB"       "betaSandwich" "BH"           "bibtex"
#> [21] "BiocManager"  "bit"          "bit64"        "bitops"
#> [25] "blob"         "brew"         "brio"         "broom"
#> [29] "bslib"        "cachem"       "callr"        "car"
#> [33] "caracas"      "carData"      "cellranger"   "cffr"
#> [37] "checkmate"    "cli"          "clipr"        "clock"
#> [41] "coda"         "cOde"         "collections"  "colorspace"
#> [45] "commonmark"   "conflicted"   "corpcor"      "covr"
#> [49] "cowplot"      "cpp11"        "crayon"       "credentials"
#> [53] "crosstalk"    "cTMed"        "ctsem"        "curl"
#> [57] "cyclocomp"    "data.table"   "DBI"          "dbplyr"
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#>   [61] "Deriv"            "desc"            "deSolve"         "devtools"
#>   [65] "diagram"          "dials"           "DiceDesign"      "diffobj"
#>   [69] "digest"           "distributional"  "distro"          "doBy"
#>   [73] "docopt"           "doFuture"        "downlit"         "dplyr"
#>   [77] "DT"               "dtplyr"          "duckdb"          "dynr"
#>   [81] "dynUtils"         "ellipse"         "ellipsis"        "evaluate"
#>   [85] "expm"             "fansi"           "farver"          "fastDummies"
#>   [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] "gsubfn"           "gtable"          "gtools"          "hardhat"
#>  [125] "haven"            "hdrcde"          "here"            "highr"
#>  [129] "Hmisc"            "hms"             "htmlTable"       "htmltools"
#>  [133] "htmlwidgets"      "httpgd"          "httpuv"          "httr"
#>  [137] "httr2"            "ids"             "ifaTools"        "igraph"
#>  [141] "infer"            "ini"             "inline"          "ipred"
#>  [145] "isoband"          "iterators"       "jomo"            "jpeg"
#>  [149] "jquerylib"        "jsonlite"        "jsonvalidate"    "kernlab"
#>  [153] "knitr"            "ks"              "labeling"        "Lahman"
#>  [157] "languageserver"   "later"           "latex2exp"       "lava"
#>  [161] "lavaan"           "lazyeval"        "lhs"             "lifecycle"
#>  [165] "lintr"            "listenv"         "littler"         "lme4"
```

```
#> [169] "locfit"          "longMI"            "loo"           "lubridate"
#> [173] "magick"          "magrittr"          "manCTMed"      "markdown"
#> [177] "MASS"            "MatrixModels"      "matrixStats"   "mclust"
#> [181] "memoise"         "metaSEM"           "mice"          "microbenchmark"
#> [185] "mime"            "miniUI"            "minqa"         "mitml"
#> [189] "mize"            "mnormt"            "modeldata"     "modelenv"
#> [193] "modelr"          "MplusAutomation"   "multicool"     "munsell"
#> [197] "mvtnorm"         "nloptr"            "numDeriv"      "nycflights13"
#> [201] "OpenMx"          "openssl"           "ordinal"       "pan"
#> [205] "pander"          "parallelly"        "parsnip"       "patchwork"
#> [209] "pbapply"         "pbivnorm"          "pbkrtest"      "pcaPP"
#> [213] "pdftools"        "pillar"            "pkgbuild"      "pkgconfig"
#> [217] "pkgdown"         "pkgload"           "plogr"         "plyr"
#> [221] "png"             "posterior"         "pracma"        "praise"
#> [225] "prettyunits"     "printr"            "processx"      "prodlim"
#> [229] "profvis"         "progress"          "progressr"     "promises"
#> [233] "proto"           "ps"                "psych"         "purrr"
#> [237] "qgraph"          "qpdf"              "quadprog"      "quantreg"
#> [241] "quarto"          "QuickJSR"          "R.cache"       "R.methodsS3"
#> [245] "R.oo"            "R.utils"           "R6"            "ragg"
#> [249] "rainbow"         "rappdirs"          "rbibutils"     "rcmdcheck"
#> [253] "RColorBrewer"    "Rcpp"              "RcppArmadillo" "RcppEigen"
#> [257] "RcppGSL"         "RcppParallel"      "RcppTOML"      "RCurl"
#> [261] "Rdpack"          "readr"             "readxl"        "recipes"
#> [265] "RefManageR"      "rematch"           "rematch2"      "remotes"
#> [269] "reprex"          "reshape2"          "reticulate"    "rex"
#> [273] "rhub"            "rlang"             "RMariaDB"      "rmarkdown"
```

```
#> [277] "roxygen2"      "rpf"           "RPostgres"      "rProject"
#> [281] "rprojroot"     "rsample"       "RSQLite"        "rstan"
#> [285] "rstantools"    "rstudioapi"    "rversions"      "rvest"
#> [289] "Ryacas"        "sass"          "scales"         "selectr"
#> [293] "semlbci"       "semmcci"       "sessioninfo"    "shape"
#> [297] "shiny"         "simStateSpace" "slider"         "snow"
#> [301] "snowfall"      "sourcetools"   "SparseM"        "SQUAREM"
#> [305] "StanHeaders"   "statmod"       "stringi"        "stringr"
#> [309] "styler"        "symSEM"        "sys"            "systemfonts"
#> [313] "tensorA"       "testthat"      "texreg"         "textshaping"
#> [317] "tibble"        "tidymodels"    "tidyr"          "tidyselect"
#> [321] "tidyverse"     "timechange"    "timeDate"       "tinytex"
#> [325] "tune"          "tzdb"          "ucminf"         "unigd"
#> [329] "urlchecker"    "usethis"       "utf8"           "uuid"
#> [333] "V8"            "vctrs"         "viridis"        "viridisLite"
#> [337] "vroom"         "waldo"         "warp"           "whisker"
#> [341] "whoami"        "withr"         "workflows"      "workflowsets"
#> [345] "xfun"          "xml2"          "xmlparsedata"   "xopen"
#> [349] "xtable"        "yaml"          "yardstick"      "zip"
#> [353] "base"          "boot"          "class"          "cluster"
#> [357] "codetools"     "compiler"      "datasets"       "foreign"
#> [361] "graphics"      "grDevices"     "grid"           "KernSmooth"
#> [365] "lattice"       "MASS"          "Matrix"         "methods"
#> [369] "mgcv"          "nlme"          "nnet"           "parallel"
#> [373] "rpart"         "spatial"       "splines"        "stats"
#> [377] "stats4"        "survival"      "tcltk"          "tools"
#> [381] "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/