Session Info

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Session

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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
```

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#> tzcode source: system (glibc)
#>
#> attached base packages:
#> [1] stats     graphics  grDevices utils     datasets  methods   base
#>
#> other attached packages:
#> [1] rProject_0.0.14
#>
#> loaded via a namespace (and not attached):
#>  [1] backports_1.5.0  R6_2.5.1         lubridate_1.9.3  xfun_0.46
#>  [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] "Amelia"       "betaMC"       "bslib"        "cffr"
#>  [5] "cli"          "devtools"     "gert"         "httr2"
#>  [9] "quarto"       "Rcpp"         "rProject"     "shiny"
#> [13] "tinytex"      "usethis"      "withr"        "xfun"
#> [17] "yaml"         "abind"        "arrow"        "ash"
#> [21] "AsioHeaders"  "askpass"      "assertthat"   "backports"
```

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#>  [25] "base64enc"       "betaDelta"       "betaMC"          "betaNB"
#>  [29] "betaSandwich"    "BH"              "bibtex"          "BiocManager"
#>  [33] "bit"             "bit64"           "bitops"          "blob"
#>  [37] "brew"            "brio"            "broom"           "bslib"
#>  [41] "cachem"          "callr"           "car"             "caracas"
#>  [45] "carData"         "cellranger"      "cffr"            "checkmate"
#>  [49] "cli"             "clipr"           "clock"           "coda"
#>  [53] "cOde"            "collections"     "colorspace"      "commonmark"
#>  [57] "conflicted"      "corpcor"         "covr"            "cowplot"
#>  [61] "cpp11"           "crayon"          "credentials"     "crosstalk"
#>  [65] "cTMed"           "ctsem"           "curl"            "cyclocomp"
#>  [69] "data.table"      "DBI"             "dbplyr"          "Deriv"
#>  [73] "desc"            "deSolve"         "devtools"        "diagram"
#>  [77] "dials"           "DiceDesign"      "diffobj"         "digest"
#>  [81] "distributional"  "distro"          "doBy"            "docopt"
#>  [85] "doFuture"        "downlit"         "dplyr"           "DT"
#>  [89] "dtplyr"          "duckdb"          "dynr"            "dynUtils"
#>  [93] "ellipse"         "ellipsis"        "evaluate"        "expm"
#>  [97] "fansi"           "farver"          "fastDummies"     "fastmap"
#> [101] "fclust"          "fda"             "fdrtool"         "fds"
#> [105] "fitCTVARMx"      "fitDTVARMx"      "FNN"             "fontawesome"
#> [109] "forcats"         "foreach"         "Formula"         "fs"
#> [113] "fst"             "fstcore"         "furrr"           "future"
#> [117] "future.apply"    "gargle"          "generics"        "gert"
#> [121] "ggplot2"         "ggrepel"         "gh"              "gitcreds"
#> [125] "glasso"          "glmnet"          "globals"         "glue"
#> [129] "googledrive"     "googlesheets4"   "gower"           "GPArotation"
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#> [133] "GPfit"          "gridExtra"      "gsubfn"           "gtable"
#> [137] "gtools"         "hardhat"        "haven"            "hdrcde"
#> [141] "here"           "highr"          "Hmisc"            "hms"
#> [145] "htmlTable"      "htmltools"      "htmlwidgets"      "httpgd"
#> [149] "httpuv"         "httr"           "httr2"            "ids"
#> [153] "ifaTools"       "igraph"         "infer"            "ini"
#> [157] "inline"         "ipred"          "isoband"          "iterators"
#> [161] "jomo"           "jpeg"           "jquerylib"        "jsonlite"
#> [165] "jsonvalidate"   "kernlab"        "knitr"            "ks"
#> [169] "labeling"       "Lahman"         "languageserver"   "later"
#> [173] "latex2exp"      "lava"           "lavaan"           "lazyeval"
#> [177] "lhs"            "lifecycle"      "lintr"            "listenv"
#> [181] "littler"        "lme4"           "locfit"           "longMI"
#> [185] "loo"            "lubridate"      "magick"           "magrittr"
#> [189] "markdown"       "MatrixModels"   "matrixStats"      "mclust"
#> [193] "memoise"        "metaSEM"        "metaVAR"          "mice"
#> [197] "microbenchmark" "mime"           "miniUI"           "minqa"
#> [201] "mitml"          "mize"           "mnormt"           "modeldata"
#> [205] "modelenv"       "modelr"         "MplusAutomation"  "multicool"
#> [209] "munsell"        "mvtnorm"        "nloptr"           "numDeriv"
#> [213] "nycflights13"   "OpenMx"         "openssl"          "ordinal"
#> [217] "pan"            "pander"         "parallelly"       "parsnip"
#> [221] "patchwork"      "pbapply"        "pbivnorm"         "pbkrtest"
#> [225] "pcaPP"          "pdftools"       "pillar"           "pkgbuild"
#> [229] "pkgconfig"      "pkgdown"        "pkgload"          "plogr"
#> [233] "plyr"           "png"            "posterior"        "pracma"
#> [237] "praise"         "prettyunits"    "printr"           "processx"
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#> [241] "prodlim"       "profvis"        "progress"        "progressr"
#> [245] "promises"      "proto"          "ps"              "psych"
#> [249] "purrr"         "qgraph"         "qpdf"            "quadprog"
#> [253] "quantreg"      "quarto"         "QuickJSR"        "R.cache"
#> [257] "R.methodsS3"   "R.oo"           "R.utils"         "R6"
#> [261] "ragg"          "rainbow"        "rappdirs"        "rbibutils"
#> [265] "rcmdcheck"     "RColorBrewer"   "Rcpp"            "RcppArmadillo"
#> [269] "RcppEigen"     "RcppGSL"        "RcppParallel"    "RcppTOML"
#> [273] "RCurl"         "Rdpack"         "readr"           "readxl"
#> [277] "recipes"       "RefManageR"     "rematch"         "rematch2"
#> [281] "remotes"       "reprex"         "reshape2"        "reticulate"
#> [285] "rex"           "rhub"           "rlang"           "RMariaDB"
#> [289] "rmarkdown"     "roxygen2"       "rpf"             "RPostgres"
#> [293] "rProject"      "rprojroot"      "rsample"         "RSQLite"
#> [297] "rstan"         "rstantools"     "rstudioapi"      "rversions"
#> [301] "rvest"         "Ryacas"         "sass"            "scales"
#> [305] "selectr"       "semlbci"        "semmcci"         "sessioninfo"
#> [309] "shape"         "shiny"          "simStateSpace"   "slider"
#> [313] "snow"          "snowfall"       "sourcetools"     "SparseM"
#> [317] "SQUAREM"       "StanHeaders"    "statmod"         "stringi"
#> [321] "stringr"       "styler"         "symSEM"          "sys"
#> [325] "systemfonts"   "tensorA"        "testthat"        "texreg"
#> [329] "textshaping"   "tibble"         "tidymodels"      "tidyr"
#> [333] "tidyselect"    "tidyverse"      "timechange"      "timeDate"
#> [337] "tinytex"       "tune"           "tzdb"            "ucminf"
#> [341] "unigd"         "urlchecker"     "usethis"         "utf8"
#> [345] "uuid"          "V8"             "vctrs"           "viridis"
```

```
#> [349] "viridisLite"    "vroom"        "waldo"        "warp"
#> [353] "whisker"        "whoami"       "withr"        "workflows"
#> [357] "workflowsets"   "xfun"         "xml2"         "xmlparsedata"
#> [361] "xopen"          "xtable"       "yaml"         "yardstick"
#> [365] "zip"            "base"         "boot"         "class"
#> [369] "cluster"        "codetools"    "compiler"     "datasets"
#> [373] "foreign"        "graphics"     "grDevices"    "grid"
#> [377] "KernSmooth"     "lattice"      "MASS"         "Matrix"
#> [381] "methods"        "mgcv"         "nlme"         "nnet"
#> [385] "parallel"       "rpart"        "spatial"      "splines"
#> [389] "stats"          "stats4"       "survival"     "tcltk"
#> [393] "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/