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] lavaan_0.6-17     semmcci_1.1.4.9000 rProject_0.0.13
#>
#> loaded via a namespace (and not attached):
#>  [1] httr_1.4.7       cli_3.6.2.9000   knitr_1.47       rlang_1.1.4
#>  [5] xfun_0.45        stringi_1.8.4    highr_0.11       generics_0.1.3
#>  [9] jsonlite_1.8.8   glue_1.7.0       backports_1.5.0  pbivnorm_0.6.0
#> [13] plyr_1.8.9       rprojroot_2.0.4  stats4_4.4.0     RefManageR_1.4.0
#> [17] quadprog_1.5-8   evaluate_0.24.0  lifecycle_1.0.4  stringr_1.5.1
#> [21] compiler_4.4.0   Rcpp_1.0.12      timechange_0.3.0 bibtex_0.5.1
#> [25] R6_2.5.1         parallel_4.4.0   mnormt_2.1.1     magrittr_2.0.3
#> [29] tools_4.4.0      lubridate_1.9.3  xml2_1.3.6
```

Packages

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

#>  [1] "Amelia"       "arm"          "bmemLavaan"   "cli"
#>  [5] "downlit"      "evaluate"     "mi"           "rlang"
#>  [9] "rProject"     "rsem"         "sem"          "semmcci"
#> [13] "tinytex"      "xfun"         "abind"        "arrow"
#> [17] "ash"          "AsioHeaders"  "askpass"      "assertthat"
```

```
#>  [21] "backports"       "base64enc"      "betaDelta"     "betaMC"
#>  [25] "betaNB"          "betaSandwich"   "BH"            "bibtex"
#>  [29] "BiocManager"     "bit"            "bit64"         "bitops"
#>  [33] "blob"            "brew"           "brio"          "broom"
#>  [37] "bslib"           "cachem"         "callr"         "car"
#>  [41] "caracas"         "carData"        "cellranger"    "cffr"
#>  [45] "checkmate"       "cli"            "clipr"         "clock"
#>  [49] "coda"            "cOde"           "collections"   "colorspace"
#>  [53] "commonmark"      "conflicted"     "corpcor"       "covr"
#>  [57] "cowplot"         "cpp11"          "crayon"        "credentials"
#>  [61] "crosstalk"       "cTMed"          "ctsem"         "curl"
#>  [65] "cyclocomp"       "data.table"     "DBI"           "dbplyr"
#>  [69] "Deriv"           "desc"           "deSolve"       "devtools"
#>  [73] "diagram"         "dials"          "DiceDesign"    "diffobj"
#>  [77] "digest"          "distributional" "distro"        "doBy"
#>  [81] "docopt"          "doFuture"       "downlit"       "dplyr"
#>  [85] "DT"              "dtplyr"         "duckdb"        "dynr"
#>  [89] "dynUtils"        "ellipse"        "ellipsis"      "evaluate"
#>  [93] "expm"            "fansi"          "farver"        "fastDummies"
#>  [97] "fastmap"         "fclust"         "fda"           "fdrtool"
#> [101] "fds"             "FNN"            "fontawesome"   "forcats"
#> [105] "foreach"         "Formula"        "fs"            "fst"
#> [109] "fstcore"         "furrr"          "future"        "future.apply"
#> [113] "gargle"          "generics"       "gert"          "ggplot2"
#> [117] "ggrepel"         "gh"             "gitcreds"      "glasso"
#> [121] "glmnet"          "globals"        "glue"          "googledrive"
#> [125] "googlesheets4"   "gower"          "GPfit"         "gridExtra"
```

```
#> [129] "gsubfn"          "gtable"         "gtools"         "hardhat"
#> [133] "haven"           "hdrcde"         "here"           "highr"
#> [137] "Hmisc"           "hms"            "htmlTable"      "htmltools"
#> [141] "htmlwidgets"     "httpgd"         "httpuv"         "httr"
#> [145] "httr2"           "ids"            "ifaTools"       "igraph"
#> [149] "infer"           "ini"            "inline"         "ipred"
#> [153] "isoband"         "iterators"      "jomo"           "jpeg"
#> [157] "jquerylib"       "jsonlite"       "jsonvalidate"   "kernlab"
#> [161] "knitr"           "ks"             "labeling"       "Lahman"
#> [165] "languageserver"  "later"          "latex2exp"      "lava"
#> [169] "lavaan"          "lazyeval"       "lhs"            "lifecycle"
#> [173] "lintr"           "listenv"        "littler"        "lme4"
#> [177] "locfit"          "longMI"         "loo"            "lubridate"
#> [181] "magick"          "magrittr"       "markdown"       "MatrixModels"
#> [185] "matrixStats"     "mclust"         "memoise"        "metaSEM"
#> [189] "mice"            "microbenchmark" "mime"           "miniUI"
#> [193] "minqa"           "mitml"          "mize"           "mnormt"
#> [197] "modeldata"       "modelenv"       "modelr"         "MplusAutomation"
#> [201] "multicool"       "munsell"        "mvtnorm"        "nloptr"
#> [205] "numDeriv"        "nycflights13"   "OpenMx"         "openssl"
#> [209] "ordinal"         "pan"            "pander"         "parallelly"
#> [213] "parsnip"         "patchwork"      "pbapply"        "pbivnorm"
#> [217] "pbkrtest"        "pcaPP"          "pdftools"       "pillar"
#> [221] "pkgbuild"        "pkgconfig"      "pkgdown"        "pkgload"
#> [225] "plogr"           "plyr"           "png"            "posterior"
#> [229] "pracma"          "praise"         "prettyunits"    "printr"
#> [233] "processx"        "prodlim"        "profvis"        "progress"
```

```
#> [237] "progressr"      "promises"      "proto"         "ps"
#> [241] "psych"          "purrr"         "qgraph"        "qpdf"
#> [245] "quadprog"       "quantreg"      "quarto"        "QuickJSR"
#> [249] "R.cache"        "R.methodsS3"   "R.oo"          "R.utils"
#> [253] "R6"             "ragg"          "rainbow"       "rappdirs"
#> [257] "rbibutils"      "rcmdcheck"     "RColorBrewer"  "Rcpp"
#> [261] "RcppArmadillo"  "RcppEigen"     "RcppGSL"       "RcppParallel"
#> [265] "RcppTOML"       "RCurl"         "Rdpack"        "readr"
#> [269] "readxl"         "recipes"       "RefManageR"    "rematch"
#> [273] "rematch2"       "remotes"       "reprex"        "reshape2"
#> [277] "reticulate"     "rex"           "rhub"          "rlang"
#> [281] "RMariaDB"       "rmarkdown"     "roxygen2"      "rpf"
#> [285] "RPostgres"      "rProject"      "rprojroot"     "rsample"
#> [289] "RSQLite"        "rstan"         "rstantools"    "rstudioapi"
#> [293] "rversions"      "rvest"         "Ryacas"        "sass"
#> [297] "scales"         "selectr"       "semlbci"       "semmcci"
#> [301] "sessioninfo"    "shape"         "shiny"         "simStateSpace"
#> [305] "slider"         "snow"          "snowfall"      "sourcetools"
#> [309] "SparseM"        "SQUAREM"       "StanHeaders"   "statmod"
#> [313] "stringi"        "stringr"       "styler"        "symSEM"
#> [317] "sys"            "systemfonts"   "tensorA"       "testthat"
#> [321] "texreg"         "textshaping"   "tibble"        "tidymodels"
#> [325] "tidyr"          "tidyselect"    "tidyverse"     "timechange"
#> [329] "timeDate"       "tinytex"       "tune"          "tzdb"
#> [333] "ucminf"         "unigd"         "urlchecker"    "usethis"
#> [337] "utf8"           "uuid"          "V8"            "vctrs"
#> [341] "viridis"        "viridisLite"   "vroom"         "waldo"
```

```
#> [345] "warp"          "whisker"       "whoami"      "withr"
#> [349] "workflows"      "workflowsets"  "xfun"        "xml2"
#> [353] "xmlparsedata"   "xopen"         "xtable"      "yaml"
#> [357] "yardstick"      "zip"           "base"        "boot"
#> [361] "class"          "cluster"       "codetools"   "compiler"
#> [365] "datasets"       "foreign"       "graphics"    "grDevices"
#> [369] "grid"           "KernSmooth"    "lattice"     "MASS"
#> [373] "Matrix"         "methods"       "mgcv"        "nlme"
#> [377] "nnet"           "parallel"      "rpart"       "spatial"
#> [381] "splines"        "stats"         "stats4"      "survival"
#> [385] "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/