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_3.6.3.9000   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] "crayon"        "digest"        "downlit"       "evaluate"
#>  [9] "mi"            "rlang"         "rProject"      "rsem"
#> [13] "sem"           "semmcci"       "tinytex"       "xfun"
#> [17] "abind"         "arrow"         "ash"           "AsioHeaders"
```

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

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

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

```
#> [345] "vroom"         "waldo"         "warp"          "whisker"
#> [349] "whoami"        "withr"         "workflows"     "workflowsets"
#> [353] "xfun"          "xml2"          "xmlparsedata"  "xopen"
#> [357] "xtable"        "yaml"          "yardstick"     "zip"
#> [361] "base"          "boot"          "class"         "cluster"
#> [365] "codetools"     "compiler"      "datasets"      "foreign"
#> [369] "graphics"      "grDevices"     "grid"          "KernSmooth"
#> [373] "lattice"       "MASS"          "Matrix"        "methods"
#> [377] "mgcv"          "nlme"          "nnet"          "parallel"
#> [381] "rpart"         "spatial"       "splines"       "stats"
#> [385] "stats4"        "survival"      "tcltk"         "tools"
#> [389] "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/