Session Info

Ivan Jacob Agaloos Pesigan

Session

```
sessionInfo()

#> R version 4.4.2 (2024-10-31)
#> Platform: x86_64-pc-linux-gnu
#> Running under: Ubuntu 24.04.1 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-r0.3.26.so;  LAPACK version 3.12.
#>
#> 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_0.0.17
#>
#> loaded via a namespace (and not attached):
#>  [1] backports_1.5.0  R6_2.5.1         lubridate_1.9.4  xfun_0.50
#>  [5] magrittr_2.0.3   glue_1.8.0       stringr_1.5.1    knitr_1.49
#>  [9] timechange_0.3.0 generics_0.1.3   lifecycle_1.0.4  xml2_1.3.6
#> [13] cli_3.6.3.9002   bibtex_0.5.1     compiler_4.4.2   highr_0.11
#> [17] rprojroot_2.0.4  plyr_1.8.9       httr_1.4.7       tools_4.4.2
#> [21] evaluate_1.0.3   Rcpp_1.0.14      RefManageR_1.4.0 rlang_1.1.5
#> [25] jsonlite_1.8.9   stringi_1.8.4
```

Packages

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

#>   [1] "bit64"             "bootStateSpace"    "cTMed"
#>   [4] "rlang"             "simStateSpace"     "abind"
#>   [7] "Amelia"            "arm"               "arrow"
#>  [10] "ash"               "AsioHeaders"       "askpass"
#>  [13] "assertthat"        "backports"         "base64enc"
#>  [16] "betaDelta"         "betaMC"            "betaNB"
```

```
#>  [19] "betaSandwich"      "BH"                "bibtex"
#>  [22] "BiocManager"       "bit"               "bit64"
#>  [25] "bitops"            "blob"              "brew"
#>  [28] "brio"              "broom"             "bslib"
#>  [31] "cachem"            "callr"             "car"
#>  [34] "caracas"           "carData"           "cellranger"
#>  [37] "cffr"              "checkmate"         "cli"
#>  [40] "clipr"             "clock"             "clusterGeneration"
#>  [43] "coda"              "cOde"              "collections"
#>  [46] "colorspace"        "commonmark"        "conflicted"
#>  [49] "corpcor"           "covr"              "cowplot"
#>  [52] "cpp11"             "crayon"            "credentials"
#>  [55] "crosstalk"         "cTMed"             "ctsem"
#>  [58] "curl"              "cyclocomp"         "data.table"
#>  [61] "DBI"               "dbplyr"            "Deriv"
#>  [64] "desc"              "deSolve"           "devtools"
#>  [67] "diagram"           "dials"             "DiceDesign"
#>  [70] "diffobj"           "digest"            "distributional"
#>  [73] "distro"            "doBy"              "docopt"
#>  [76] "doFuture"          "downlit"           "dplyr"
#>  [79] "DT"                "dtplyr"            "dynr"
#>  [82] "dynUtils"          "ellipse"           "ellipsis"
#>  [85] "evaluate"          "expm"              "fansi"
#>  [88] "farver"            "fastDummies"       "fastmap"
#>  [91] "fclust"            "fda"               "fdrtool"
#>  [94] "fds"               "fitCTVARMx"        "fitDTVARMx"
#>  [97] "FNN"               "fontawesome"       "forcats"
```

```
#> [100] "foreach"           "Formula"           "fs"
#> [103] "fst"               "fstcore"           "furrr"
#> [106] "future"            "future.apply"      "gargle"
#> [109] "generics"          "gert"              "ggplot2"
#> [112] "ggrepel"           "gh"                "gitcreds"
#> [115] "glasso"            "glmnet"            "globals"
#> [118] "glue"              "googledrive"       "googlesheets4"
#> [121] "gower"             "GPArotation"       "GPfit"
#> [124] "graphicalVAR"      "gridExtra"         "gsubfn"
#> [127] "gtable"            "gtools"            "hardhat"
#> [130] "haven"             "hdrcde"            "here"
#> [133] "highr"             "Hmisc"             "hms"
#> [136] "htmlTable"         "htmltools"         "htmlwidgets"
#> [139] "httpgd"            "httpuv"            "httr"
#> [142] "httr2"             "ids"               "ifaTools"
#> [145] "igraph"            "infer"             "ini"
#> [148] "inline"            "ipred"             "isoband"
#> [151] "iterators"         "jomo"              "jpeg"
#> [154] "jquerylib"         "jsonlite"          "jsonvalidate"
#> [157] "kernlab"           "knitr"             "ks"
#> [160] "labeling"          "Lahman"            "languageserver"
#> [163] "later"             "latex2exp"         "lava"
#> [166] "lavaan"            "lazyeval"          "lhs"
#> [169] "lifecycle"         "lintr"             "listenv"
#> [172] "littler"           "lme4"              "locfit"
#> [175] "longMI"            "loo"               "lubridate"
#> [178] "magick"            "magrittr"          "markdown"
```

```
#> [181] "MatrixModels"      "matrixStats"       "mclust"
#> [184] "memoise"           "metaSEM"           "metaVAR"
#> [187] "mice"              "microbenchmark"    "mime"
#> [190] "miniUI"            "minqa"             "mitml"
#> [193] "mize"              "mlVAR"             "mnormt"
#> [196] "modeldata"         "modelenv"          "modelr"
#> [199] "MplusAutomation"   "multicool"         "munsell"
#> [202] "mvtnorm"           "nloptr"            "numDeriv"
#> [205] "nycflights13"      "OpenMx"            "openssl"
#> [208] "ordinal"           "pan"               "pander"
#> [211] "parallelly"        "parsnip"           "patchwork"
#> [214] "pbapply"           "pbivnorm"          "pbkrtest"
#> [217] "pcaPP"             "pdftools"          "pillar"
#> [220] "pkgbuild"          "pkgconfig"         "pkgdown"
#> [223] "pkgload"           "plogr"             "plyr"
#> [226] "png"               "posterior"         "pracma"
#> [229] "praise"            "prettyunits"       "printr"
#> [232] "processx"          "prodlim"           "profvis"
#> [235] "progress"          "progressr"         "promises"
#> [238] "proto"             "ps"                "psych"
#> [241] "purrr"             "qgraph"            "qpdf"
#> [244] "quadprog"          "quantreg"          "quarto"
#> [247] "QuickJSR"          "R.cache"           "R.methodsS3"
#> [250] "R.oo"              "R.utils"           "R6"
#> [253] "ragg"              "rainbow"           "rappdirs"
#> [256] "rbibutils"         "rcmdcheck"         "RColorBrewer"
#> [259] "Rcpp"              "RcppArmadillo"     "RcppEigen"
```

```
#> [262] "RcppGSL"           "RcppParallel"      "RcppTOML"
#> [265] "RCurl"             "Rdpack"            "readr"
#> [268] "readxl"            "recipes"           "RefManageR"
#> [271] "reformulas"        "rematch"           "rematch2"
#> [274] "remotes"           "reprex"            "reshape2"
#> [277] "reticulate"        "rex"               "rhub"
#> [280] "rjags"             "rlang"             "RMariaDB"
#> [283] "rmarkdown"         "roxygen2"          "rpf"
#> [286] "RPostgres"         "rProject"          "rprojroot"
#> [289] "rsample"           "RSQLite"           "rstan"
#> [292] "rstantools"        "rstudioapi"        "rversions"
#> [295] "rvest"             "Ryacas"            "sass"
#> [298] "scales"            "selectr"           "semlbci"
#> [301] "semmcci"           "sessioninfo"       "sfd"
#> [304] "shape"             "shiny"             "simStateSpace"
#> [307] "slider"            "snow"              "snowfall"
#> [310] "sourcetools"       "SparseM"           "SQUAREM"
#> [313] "StanHeaders"       "statmod"           "stringi"
#> [316] "stringr"           "styler"            "symSEM"
#> [319] "sys"               "systemfonts"       "tensorA"
#> [322] "testthat"          "texreg"            "textshaping"
#> [325] "tibble"            "tidymodels"        "tidyr"
#> [328] "tidyselect"        "tidyverse"         "timechange"
#> [331] "timeDate"          "tinytex"           "tune"
#> [334] "tzdb"              "ucminf"            "unigd"
#> [337] "urlchecker"        "usethis"           "utf8"
#> [340] "uuid"              "V8"                "vctrs"
```

```
#> [343] "viridis"           "viridisLite"       "vroom"
#> [346] "waldo"             "warp"              "whisker"
#> [349] "whoami"            "withr"             "workflows"
#> [352] "workflowsets"      "xfun"              "xml2"
#> [355] "xmlparsedata"      "xopen"             "xtable"
#> [358] "yaml"              "yardstick"         "zip"
#> [361] "base"              "boot"              "class"
#> [364] "cluster"           "codetools"         "compiler"
#> [367] "datasets"          "foreign"           "graphics"
#> [370] "grDevices"         "grid"              "KernSmooth"
#> [373] "lattice"           "MASS"              "Matrix"
#> [376] "methods"           "mgcv"              "nlme"
#> [379] "nnet"              "parallel"          "rpart"
#> [382] "spatial"           "splines"           "stats"
#> [385] "stats4"            "survival"          "tcltk"
#> [388] "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/