

Session Info

Ivan Jacob Agaloos Pesigan

Session

```
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/libopenblas-p0.3.20.so; LAPACK version 3.10.3
#>
#> 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_0.0.13
#>
#> loaded via a namespace (and not attached):
#> [1] backports_1.5.0  R6_2.5.1          lubridate_1.9.3  xfun_0.45
#> [5] magrittr_2.0.3   glue_1.7.0        stringr_1.5.1    knitr_1.47
#> [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_1.0.12       RefManageR_1.4.0 rlang_1.1.4
#> [25] jsonlite_1.8.8   stringi_1.8.4

```

Packages

```

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

#> [1] "betaSandwich"  "pkgload"         "ps"              "roxygen2"
#> [5] "rProject"      "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"    "cfr"
#> [37] "checkmate"     "cli"           "clipr"         "clock"
#> [41] "coda"          "c0de"          "collections"   "colorspace"
#> [45] "commonmark"    "conflicted"    "corpcor"       "covr"
#> [49] "cowplot"       "cpp11"         "crayon"        "credentials"
#> [53] "crosstalk"     "cTMed"         "ctsem"         "curl"
#> [57] "cyclocomp"     "data.table"    "DBI"           "dbplyr"
#> [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"       "frrr"          "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"         "hrcde"         "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"         "markdown"         "MatrixModels"
#> [177] "matrixStats"      "mclust"           "memoise"          "metaSEM"
#> [181] "mice"             "microbenchmark"   "mime"             "miniUI"
#> [185] "minqa"            "mitml"            "mize"             "mnormt"
#> [189] "modeldata"        "modelenv"         "modelr"           "MplusAutomation"
#> [193] "multicool"        "munsell"          "mvtnorm"          "nloptr"
#> [197] "numDeriv"         "nycflights13"     "OpenMx"           "openssl"
#> [201] "ordinal"          "pan"              "pander"           "parallelly"
#> [205] "parsnip"          "patchwork"        "pbapply"          "pbivnorm"
#> [209] "pbkrtest"         "pcaPP"            "pdftools"         "pillar"
#> [213] "pkgbuild"         "pkgconfig"        "pkgdown"          "pkgload"
#> [217] "plogr"            "plyr"             "png"              "posterior"
#> [221] "pracma"           "praise"           "prettyunits"      "printr"
#> [225] "processx"         "prodlim"          "profvis"          "progress"
#> [229] "progressr"        "promises"         "proto"            "ps"
#> [233] "psych"            "purrr"            "qgraph"           "qpdf"
#> [237] "quadprog"         "quantreg"         "quarto"           "QuickJSR"

```

```

#> [241] "R.cache"          "R.methodsS3"      "R.oo"             "R.utils"
#> [245] "R6"               "ragg"             "rainbow"          "rappdirs"
#> [249] "rbibutils"        "rcmdcheck"        "RColorBrewer"     "Rcpp"
#> [253] "RcppArmadillo"    "RcppEigen"        "RcppGSL"          "RcppParallel"
#> [257] "RcppTOML"         "RCurl"            "Rdpack"           "readr"
#> [261] "readxl"           "recipes"          "RefManageR"       "rematch"
#> [265] "rematch2"         "remotes"          "reprex"           "reshape2"
#> [269] "reticulate"       "rex"              "rhub"             "rlang"
#> [273] "RMariaDB"         "rmarkdown"        "roxygen2"         "rpf"
#> [277] "RPostgres"        "rProject"          "rprojroot"        "rsample"
#> [281] "RSQLite"          "rstan"             "rstantools"       "rstudioapi"
#> [285] "rversions"        "rvest"             "Ryacas"           "sass"
#> [289] "scales"           "selectr"          "semlbci"          "semmcci"
#> [293] "sessioninfo"      "shape"             "shiny"            "simStateSpace"
#> [297] "slider"           "snow"              "snowfall"         "sourcetools"
#> [301] "SparseM"          "SQUAREM"          "StanHeaders"      "statmod"
#> [305] "stringi"          "stringr"          "styler"           "symSEM"
#> [309] "sys"              "systemfonts"      "tensorA"          "testthat"
#> [313] "texreg"           "textshaping"      "tibble"           "tidymodels"
#> [317] "tidyr"            "tidyselect"        "tidyverse"        "timechange"
#> [321] "timeDate"         "tinytex"          "tune"             "tzdb"
#> [325] "ucminf"           "unigd"            "urlchecker"       "usethis"
#> [329] "utf8"             "uuid"             "V8"               "vctrs"
#> [333] "viridis"          "viridisLite"      "vroom"            "waldo"
#> [337] "warp"             "whisker"          "whoami"           "withr"
#> [341] "workflows"        "workflowsets"     "xfun"             "xml2"
#> [345] "xmlparsedata"     "xopen"            "xtable"           "yaml"

```

```

#> [349] "yardstick"      "zip"      "base"      "boot"
#> [353] "class"         "cluster"  "codetools" "compiler"
#> [357] "datasets"      "foreign"  "graphics"  "grDevices"
#> [361] "grid"          "KernSmooth" "lattice"   "MASS"
#> [365] "Matrix"        "methods"  "mgcv"      "nlme"
#> [369] "nnet"          "parallel" "rpart"     "spatial"
#> [373] "splines"       "stats"    "stats4"    "survival"
#> [377] "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/>