

Session Info

Ivan Jacob Agaloos Pesigan

Session

```
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/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_3.6.2.9000 bibtex_0.5.1  compiler_4.4.0  highr_0.11
#> [17] rprojroot_2.0.4 plyr_1.8.9    httr_1.4.7      tools_4.4.0
#> [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] "Amelia"      "betaMC"      "cli"         "downlit"
#> [5] "evaluate"    "rlang"       "rProject"    "tinytex"
#> [9] "xfun"        "abind"       "arrow"       "ash"
#> [13] "AsioHeaders" "askpass"     "assertthat"  "backports"
#> [17] "base64enc"   "betaDelta"   "betaMC"      "betaNB"
#> [21] "betaSandwich" "BH"          "bibtex"      "BiocManager"

```

```

#> [25] "bit"          "bit64"         "bitops"         "blob"
#> [29] "brew"         "brio"          "broom"          "bslib"
#> [33] "cachem"       "callr"         "car"            "caracas"
#> [37] "carData"      "cellranger"    "cfr"            "checkmate"
#> [41] "cli"          "clipr"         "clock"          "coda"
#> [45] "c0de"         "collections"   "colorspace"     "commonmark"
#> [49] "conflicted"   "corpcor"       "covr"           "cowplot"
#> [53] "cpp11"        "crayon"        "credentials"     "crosstalk"
#> [57] "cTMed"        "ctsem"         "curl"           "cyclocomp"
#> [61] "data.table"   "DBI"           "dbplyr"         "Deriv"
#> [65] "desc"         "deSolve"       "devtools"       "diagram"
#> [69] "dials"        "DiceDesign"    "diffobj"        "digest"
#> [73] "distributional" "distro"        "doBy"           "docopt"
#> [77] "doFuture"     "downlit"       "dplyr"          "DT"
#> [81] "dtplyr"       "duckdb"        "dynr"           "dynUtils"
#> [85] "ellipse"      "ellipsis"      "evaluate"       "expm"
#> [89] "fansI"        "farver"        "fastDummies"    "fastmap"
#> [93] "fclust"       "fda"           "fdrtool"        "fds"
#> [97] "FNN"          "fontawesome"   "forcats"        "foreach"
#> [101] "Formula"      "fs"            "fst"            "fstcore"
#> [105] "furrr"        "future"        "future.apply"    "gargle"
#> [109] "generics"     "gert"          "ggplot2"        "ggrepel"
#> [113] "gh"           "gitcreds"      "glasso"         "glmnet"
#> [117] "globals"      "glue"          "googledrive"     "googlesheets4"
#> [121] "gower"        "GPfit"         "gridExtra"      "gsubfn"
#> [125] "gtable"       "gtools"        "hardhat"        "haven"
#> [129] "hdcrcde"      "here"          "highr"          "Hmisc"

```

```

#> [133] "hms"           "htmlTable"      "htmltools"      "htmlwidgets"
#> [137] "httpgd"        "httpuv"         "httr"           "httr2"
#> [141] "ids"           "ifaTools"       "igraph"         "infer"
#> [145] "ini"           "inline"         "ipred"          "isoband"
#> [149] "iterators"     "jomo"           "jpeg"           "jquerylib"
#> [153] "jsonlite"      "jsonvalidate"   "kernlab"        "knitr"
#> [157] "ks"            "labeling"       "Lahman"         "languageserver"
#> [161] "later"         "latex2exp"      "lava"           "lavaan"
#> [165] "lazyeval"      "lhs"            "lifecycle"      "lintr"
#> [169] "listenv"       "littler"        "lme4"           "locfit"
#> [173] "longMI"        "loo"            "lubridate"      "magick"
#> [177] "magrittr"      "markdown"       "MatrixModels"   "matrixStats"
#> [181] "mclust"        "memoise"        "metaSEM"        "mice"
#> [185] "microbenchmark" "mime"          "miniUI"         "minqa"
#> [189] "mitml"         "mize"           "mnormt"         "modeldata"
#> [193] "modelenv"      "modelr"         "MplusAutomation" "multicool"
#> [197] "munsell"       "mvtnorm"        "nloptr"         "numDeriv"
#> [201] "nycflights13" "OpenMx"         "openssl"        "ordinal"
#> [205] "pan"           "pander"         "parallelly"     "parsnip"
#> [209] "patchwork"     "pbapply"        "pbivnorm"       "pbkrtest"
#> [213] "pcaPP"         "pdftools"       "pillar"         "pkgbuild"
#> [217] "pkgconfig"     "pkgdown"        "pkgload"        "plogr"
#> [221] "plyr"          "png"            "posterior"      "pracma"
#> [225] "praise"        "prettyunits"    "printr"         "processx"
#> [229] "proclim"       "profvis"        "progress"       "progressr"
#> [233] "promises"      "proto"          "ps"             "psych"
#> [237] "purrr"         "qgraph"         "qpdf"           "quadprog"

```

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

```

#> [349] "xopen"          "xtable"          "yaml"            "yardstick"
#> [353] "zip"           "base"            "boot"            "class"
#> [357] "cluster"       "codetools"       "compiler"        "datasets"
#> [361] "foreign"       "graphics"        "grDevices"       "grid"
#> [365] "KernSmooth"   "lattice"         "MASS"            "Matrix"
#> [369] "methods"      "mgcv"            "nlme"            "nnet"
#> [373] "parallel"     "rpart"           "spatial"         "splines"
#> [377] "stats"        "stats4"          "survival"        "tcltk"
#> [381] "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/>