## 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
          / 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] 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] "betaDelta"
                            "pkgload"
                                               "roxygen2"
                                                                  "rProject"
#>
     [5] "tinytex"
                            "abind"
                                               "arrow"
                                                                  "ash"
     [9] "AsioHeaders"
                            "askpass"
                                               "assertthat"
                                                                  "backports"
#>
                            "betaDelta"
    [13] "base64enc"
                                               "betaMC"
                                                                  "betaNB"
    [17] "betaSandwich"
                            "BH"
                                               "bibtex"
                                                                  "BiocManager"
    [21] "bit"
                            "bit64"
                                               "bitops"
                                                                  "blob"
```

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

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

#>	[241]	"R.methodsS3"	"R.00"	"R.utils"	"R6"
#>	[245]	"ragg"	"rainbow"	"rappdirs"	"rbibutils"
#>	[249]	"rcmdcheck"	"RColorBrewer"	"Rcpp"	"RcppArmadillo"
#>	[253]	"RcppEigen"	"RcppGSL"	"RcppParallel"	"RcppTOML"
#>	[257]	"RCurl"	"Rdpack"	"readr"	"readxl"
#>	[261]	"recipes"	"RefManageR"	"rematch"	"rematch2"
#>	[265]	"remotes"	"reprex"	"reshape2"	"reticulate"
#>	[269]	"rex"	"rhub"	"rlang"	"RMariaDB"
#>	[273]	"rmarkdown"	"roxygen2"	"rpf"	"RPostgres"
#>	[277]	"rProject"	"rprojroot"	"rsample"	"RSQLite"
#>	[281]	"rstan"	"rstantools"	"rstudioapi"	"rversions"
#>	[285]	"rvest"	"Ryacas"	"sass"	"scales"
#>	[289]	"selectr"	"semlbci"	"semmcci"	"sessioninfo"
#>	[293]	"shape"	"shiny"	"simStateSpace"	"slider"
#>	[297]	"snow"	"snowfall"	"sourcetools"	"SparseM"
#>	[301]	"SQUAREM"	"StanHeaders"	"statmod"	"stringi"
#>	[305]	"stringr"	"styler"	"symSEM"	"sys"
#>	[309]	"systemfonts"	"tensorA"	"testthat"	"texreg"
#>	[313]	"textshaping"	"tibble"	"tidymodels"	"tidyr"
#>	[317]	"tidyselect"	"tidyverse"	"timechange"	"timeDate"
#>	[321]	"tinytex"	"tune"	"tzdb"	"ucminf"
#>	[325]	"unigd"	"urlchecker"	"usethis"	"utf8"
#>	[329]	"uuid"	"V8"	"vctrs"	"viridis"
#>	[333]	"viridisLite"	"vroom"	"waldo"	"warp"
#>	[337]	"whisker"	"whoami"	"withr"	"workflows"
#>	[341]	"workflowsets"	"xfun"	"xm12"	"xmlparsedata"
#>	[345]	"xopen"	"xtable"	"yaml"	"yardstick"

#>	[349] "zip"	111	base"	"boot"	"class"
#>	[353] "cluste	er" "	codetools"	"compiler"	"datasets"
#>	[357] "foreig	n" ",	graphics"	"grDevices"	"grid"
#>	[361] "KernSm	ooth" "	lattice"	"MASS"	"Matrix"
#>	[365] "method	s" "	mgcv"	"nlme"	"nnet"
#>	[369] "parall	el" "	rpart"	"spatial"	"splines"
#>	[373] "stats"	ш	stats4"	"survival"	"tcltk"
#>	[377] "tools"	11-	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

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