

# 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/libopenblas-p0.3.26.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] lavaan_0.6-19  semmcci_1.1.5  rProject_0.0.17
#>
#> loaded via a namespace (and not attached):
#> [1] httr_1.4.7      cli_3.6.3.9002  knitr_1.49      rlang_1.1.4
#> [5] xfun_0.50       stringi_1.8.4   highr_0.11      generics_0.1.3
#> [9] jsonlite_1.8.9  glue_1.8.0      backports_1.5.0 pbivnorm_0.6.0
#> [13] plyr_1.8.9      rprojroot_2.0.4 stats4_4.4.2    RefManageR_1.4.0
#> [17] quadprog_1.5-8  evaluate_1.0.3  lifecycle_1.0.4 stringr_1.5.1
#> [21] compiler_4.4.2  Rcpp_1.0.13-1   timechange_0.3.0 bibtex_0.5.1
#> [25] R6_2.5.1        parallel_4.4.2  mnormt_2.1.1    magrittr_2.0.3
#> [29] tools_4.4.2     lubridate_1.9.4 xml2_1.3.6

```

## Packages

```

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

#> [1] "Amelia"      "bmemLavaan"    "mi"
#> [4] "rsem"        "sem"           "semmcci"
#> [7] "abind"       "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] "cfr"            "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] "distrib"        "doBy"            "docopt"
#> [76] "doFuture"       "downlit"         "dplyr"
#> [79] "DT"            "dtplyr"          "dynr"
#> [82] "dynUtils"       "ellipse"         "ellipsis"
#> [85] "evaluate"       "expm"            "fans"
#> [88] "farver"         "fastDummies"     "fastmap"
#> [91] "fclust"         "fda"             "fdrtool"
#> [94] "fdr"           "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" "hdcrcde" "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/>