

Session Info

Ivan Jacob Agaloos Pesigan

Session

```
sessionInfo()  
  
#> R version 4.3.3 (2024-02-29)  
#> Platform: x86_64-pc-linux-gnu (64-bit)  
#> 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_0.0.10
#>
#> loaded via a namespace (and not attached):
#> [1] backports_1.4.1  R6_2.5.1          lubridate_1.9.3   xfun_0.43
#> [5] magrittr_2.0.3   glue_1.7.0         stringr_1.5.1     knitr_1.46
#> [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_4.3.3    highr_0.10
#> [17] rprojroot_2.0.4  plyr_1.8.9         httr_1.4.7        rstudioapi_0.16.0
#> [21] tools_4.3.3      evaluate_0.23      Rcpp_1.0.12       RefManageR_1.4.0
#> [25] rlang_1.1.3      jsonlite_1.8.8     stringi_1.8.3

```

Packages

```

unname(installed.packages()[, 1])
#> [1] "Amelia"      "arm"          "betaDelta"    "betaMC"
#> [5] "betaNB"      "betaSandwich" "bmemLavaan"   "cffr"
#> [9] "coda"        "cTMed"        "mi"           "pkgdown"
#> [13] "rProject"    "rsem"         "sem"          "semmcci"
#> [17] "simStateSpace" "styler"       "abind"        "arrow"
#> [21] "ash"         "AsioHeaders"  "askpass"      "assertthat"

```

```

#> [25] "backports"      "base64enc"      "betaDelta"      "betaMC"
#> [29] "betaNB"         "betaSandwich"   "BH"              "bibtex"
#> [33] "BiocManager"    "bit"            "bit64"           "bitops"
#> [37] "blob"           "brew"           "brio"            "broom"
#> [41] "bslib"          "cachem"         "callr"           "car"
#> [45] "caracas"        "carData"        "cellranger"      "cfrfr"
#> [49] "checkmate"      "cli"            "clipr"           "clock"
#> [53] "c0de"           "collections"    "colorspace"      "commonmark"
#> [57] "conflicted"     "corpcor"        "covr"            "cpp11"
#> [61] "crayon"         "credentials"    "crosstalk"       "cTMed"
#> [65] "ctsem"          "curl"           "cyclocomp"       "data.table"
#> [69] "DBI"            "dbplyr"         "Deriv"           "desc"
#> [73] "deSolve"        "devtools"       "diagram"         "dials"
#> [77] "DiceDesign"     "diffobj"        "digest"          "distributional"
#> [81] "distro"         "doBy"           "docopt"          "doFuture"
#> [85] "downlit"        "dplyr"          "DT"              "dtplyr"
#> [89] "duckdb"         "dynr"           "dynUtils"        "ellipse"
#> [93] "ellipsis"       "evaluate"       "expm"            "fansI"
#> [97] "farver"         "fastmap"        "fclust"          "fda"
#> [101] "fdrtool"        "fds"            "FNN"             "fontawesome"
#> [105] "forcats"        "foreach"        "Formula"         "fs"
#> [109] "fst"           "fstcore"        "furry"           "future"
#> [113] "future.apply"   "gargle"         "generics"        "gert"
#> [117] "ggplot2"        "ggrepel"        "gh"              "gitcreds"
#> [121] "glasso"         "glmnet"         "globals"         "glue"
#> [125] "googledrive"    "googlesheets4" "gower"           "GPfit"
#> [129] "gridExtra"      "gtable"         "gtools"          "hardhat"

```

```

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

```

```

#> [241] "qpdf"          "quadprog"      "quantreg"      "quarto"
#> [245] "QuickJSR"     "R.cache"       "R.methodsS3"   "R.oo"
#> [249] "R.utils"      "R6"            "ragg"          "rainbow"
#> [253] "rappdirs"     "rbibutils"     "rcmdcheck"     "RColorBrewer"
#> [257] "Rcpp"         "RcppArmadillo" "RcppEigen"     "RcppGSL"
#> [261] "RcppParallel" "RcppTOML"      "RCurl"         "Rdpack"
#> [265] "readr"        "readxl"        "recipes"       "RefManagerR"
#> [269] "rematch"      "rematch2"      "remotes"       "reprex"
#> [273] "reshape2"     "reticulate"    "rex"           "rhub"
#> [277] "rlang"        "RMariaDB"      "rmarkdown"     "roxygen2"
#> [281] "rpf"          "RPostgres"     "rProject"      "rprojroot"
#> [285] "rsample"      "RSQLite"       "rstan"         "rstantools"
#> [289] "rstudioapi"   "rversions"     "rvest"         "Ryacas"
#> [293] "sass"         "scales"        "selectr"       "semlbci"
#> [297] "semmcci"      "sessioninfo"   "shape"         "shiny"
#> [301] "simStateSpace" "slider"        "snow"          "snowfall"
#> [305] "sourcetools"  "SparseM"       "SQUAREM"       "StanHeaders"
#> [309] "stringi"      "stringr"       "styler"        "symSEM"
#> [313] "sys"          "systemfonts"   "tensorA"       "testthat"
#> [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

R Core Team. (2023). *R: A language and environment for statistical computing*. R Foundation for Statistical Computing, Vienna, Austria. <https://www.R-project.org/>