

Session Info

Ivan Jacob Agaloos Pesigan

Session

```
sessionInfo()

#> R version 4.5.2 (2025-10-31)
#> Platform: x86_64-pc-linux-gnu
#> Running under: Ubuntu 24.04.3 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 3.12.0
#>
#> 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_0.0.25
#>
#> loaded via a namespace (and not attached):
#> [1] backports_1.5.0  R6_2.6.1          lubridate_1.9.5  xfun_0.56
#> [5] magrittr_2.0.4   glue_1.8.0        stringr_1.6.0    knitr_1.51
#> [9] timechange_0.4.0 generics_0.1.4    lifecycle_1.0.5  xml2_1.5.2
#> [13] cli_3.6.5.9000  bibtex_0.5.2      compiler_4.5.2   plyr_1.8.9
#> [17] highr_0.11       rprojroot_2.1.1   httr_1.4.8       tools_4.5.2
#> [21] evaluate_1.0.5   Rcpp_1.1.1        RefManageR_1.4.0 otel_0.2.0
#> [25] rlang_1.1.7      jsonlite_2.0.0    stringi_1.8.7

```

Packages

```

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

#> [1] "betaDelta"      "abind"           "Amelia"
#> [4] "arm"            "arrow"           "ash"
#> [7] "AsioHeaders"    "askpass"         "assertthat"
#> [10] "backports"      "base64enc"       "betaDelta"
#> [13] "betaMC"         "betaNB"          "betaSandwich"
#> [16] "BH"             "bibtex"          "BiocManager"

```

```

#> [19] "BiocVersion"      "bit"              "bit64"
#> [22] "bitops"           "blob"             "bootStateSpace"
#> [25] "brew"             "brio"             "broom"
#> [28] "bslib"            "cachem"           "callr"
#> [31] "car"              "caracas"          "carData"
#> [34] "cellranger"       "cffr"             "checkmate"
#> [37] "cli"              "clipr"            "clock"
#> [40] "clusterGeneration" "coda"             "cOde"
#> [43] "collections"      "colorspace"       "commonmark"
#> [46] "conflicted"       "corpcor"          "covr"
#> [49] "cowplot"          "cpp11"            "crayon"
#> [52] "credentials"      "crosstalk"        "cTMed"
#> [55] "ctsem"            "curl"             "data.table"
#> [58] "DBI"              "dbplyr"           "Deriv"
#> [61] "desc"             "deSolve"          "devtools"
#> [64] "diagram"          "dials"            "DiceDesign"
#> [67] "diffobj"          "digest"           "distributional"
#> [70] "distro"           "doBy"             "docopt"
#> [73] "downlit"          "dplyr"            "DT"
#> [76] "dtplyr"           "duckdb"           "dynr"
#> [79] "dynUtils"         "ellipse"          "ellipsis"
#> [82] "evaluate"         "expm"             "fansI"
#> [85] "farver"           "fastDummies"      "fastmap"
#> [88] "fclust"           "fda"              "fdrtool"
#> [91] "fds"              "fitVARMxID"       "FNN"
#> [94] "fontawesome"      "forcats"          "foreach"
#> [97] "forecast"         "Formula"          "fracdiff"

```

```

#> [100] "fs"           "fst"           "fstcore"
#> [103] "furrr"        "future"        "future.apply"
#> [106] "gargle"       "generics"      "gert"
#> [109] "ggplot2"      "ggrepel"       "gh"
#> [112] "gitcreds"     "glasso"        "glmnet"
#> [115] "globals"     "glue"          "googledrive"
#> [118] "googlesheets4" "gower"         "GPArotation"
#> [121] "GPfit"        "graphicalVAR"  "gridExtra"
#> [124] "gsubfn"       "gtable"        "gtools"
#> [127] "hardhat"      "haven"         "hdcde"
#> [130] "here"         "highr"         "Hmisc"
#> [133] "hms"          "htmlTable"     "htmltools"
#> [136] "htmlwidgets" "httpgd"        "httpuv"
#> [139] "httr"         "httr2"         "ids"
#> [142] "ifaTools"     "igraph"        "infer"
#> [145] "ini"          "inline"        "ipred"
#> [148] "isoband"      "iterators"     "jomo"
#> [151] "jpeg"         "jquerylib"     "jsonlite"
#> [154] "jsonvalidate" "kernlab"       "knitr"
#> [157] "ks"           "kutils"        "labeling"
#> [160] "Lahman"       "languageserver" "later"
#> [163] "latex2exp"    "lava"          "lavaan"
#> [166] "lazyeval"     "lhs"           "lifecycle"
#> [169] "lintr"        "lisrelToR"     "listenv"
#> [172] "litedown"     "littler"       "lme4"
#> [175] "lmtest"       "locfit"        "longMI"
#> [178] "loo"          "lubridate"     "magick"

```

#> [181]	"magrittr"	"markdown"	"MatrixModels"
#> [184]	"matrixStats"	"mclust"	"memoise"
#> [187]	"metaDyn"	"metaSEM"	"mi"
#> [190]	"mice"	"microbenchmark"	"mime"
#> [193]	"miniUI"	"minqa"	"mitml"
#> [196]	"mize"	"mlVAR"	"mnormt"
#> [199]	"modeldata"	"modelenv"	"modelr"
#> [202]	"MplusAutomation"	"multicool"	"mvtnorm"
#> [205]	"nloptr"	"numDeriv"	"nycflights13"
#> [208]	"OpenMx"	"openssl"	"openxlsx"
#> [211]	"ordinal"	"otel"	"pak"
#> [214]	"pan"	"pander"	"parallelly"
#> [217]	"parsnip"	"patchwork"	"pbapply"
#> [220]	"pbivnorm"	"pbkrtest"	"pcaPP"
#> [223]	"pdftools"	"pillar"	"pkgbuild"
#> [226]	"pkgconfig"	"pkgdown"	"pkgload"
#> [229]	"plyr"	"png"	"posterior"
#> [232]	"pracma"	"praise"	"prettyunits"
#> [235]	"printr"	"processx"	"prodlim"
#> [238]	"profvis"	"progress"	"progressr"
#> [241]	"promises"	"proto"	"ps"
#> [244]	"psych"	"purrr"	"qgraph"
#> [247]	"qpdf"	"quadprog"	"quantreg"
#> [250]	"quarto"	"QuickJSR"	"R.cache"
#> [253]	"R.methodsS3"	"R.oo"	"R.utils"
#> [256]	"R2jags"	"R2WinBUGS"	"R6"
#> [259]	"ragg"	"rainbow"	"rappdirs"

#> [262]	"rbibutils"	"rcmdcheck"	"RColorBrewer"
#> [265]	"Rcpp"	"RcppArmadillo"	"RcppEigen"
#> [268]	"RcppGSL"	"RcppParallel"	"RcppTOML"
#> [271]	"RCurl"	"Rdpack"	"readr"
#> [274]	"readxl"	"recipes"	"RefManager"
#> [277]	"reformulas"	"rematch"	"rematch2"
#> [280]	"remotes"	"reprex"	"reshape2"
#> [283]	"reticulate"	"rex"	"rhdf5"
#> [286]	"rhdf5filters"	"Rhdf5lib"	"rhub"
#> [289]	"rjags"	"rlang"	"RMariaDB"
#> [292]	"rmarkdown"	"rockchalk"	"roxygen2"
#> [295]	"rpf"	"RPostgres"	"rProject"
#> [298]	"rprojroot"	"rsample"	"RSQLite"
#> [301]	"rstan"	"rstantools"	"rstudioapi"
#> [304]	"RUnit"	"rversions"	"rvest"
#> [307]	"Ryacas"	"S7"	"sass"
#> [310]	"scales"	"selectr"	"sem"
#> [313]	"semlbci"	"semmcci"	"semPlot"
#> [316]	"sessioninfo"	"sfd"	"shape"
#> [319]	"shiny"	"simStateSpace"	"slider"
#> [322]	"snow"	"snowfall"	"sourcetools"
#> [325]	"SparseM"	"sparsevctrs"	"SQUAREM"
#> [328]	"StanHeaders"	"stringi"	"stringr"
#> [331]	"styler"	"symSEM"	"sys"
#> [334]	"systemfonts"	"tailor"	"tensorA"
#> [337]	"testthat"	"texreg"	"textshaping"
#> [340]	"tibble"	"tidymodels"	"tidyr"

```

#> [343] "tidyselect"      "tidyverse"      "timechange"
#> [346] "timeDate"       "tinytex"        "tune"
#> [349] "tzdb"           "ucminf"         "unigd"
#> [352] "urca"           "urlchecker"     "usethis"
#> [355] "utf8"           "uuid"           "V8"
#> [358] "vctrs"          "viridisLite"    "vroom"
#> [361] "waldo"          "warp"           "whisker"
#> [364] "whoami"         "withr"          "workflows"
#> [367] "workflowsets"   "xfun"           "XML"
#> [370] "xml2"           "xmlparsedata"   "xopen"
#> [373] "xtable"         "yaml"           "yardstick"
#> [376] "zip"            "zoo"            "base"
#> [379] "boot"           "class"          "cluster"
#> [382] "codetools"      "compiler"       "datasets"
#> [385] "foreign"        "graphics"       "grDevices"
#> [388] "grid"           "KernSmooth"     "lattice"
#> [391] "MASS"           "Matrix"         "methods"
#> [394] "mgcv"           "nlme"           "nnet"
#> [397] "parallel"       "rpart"          "spatial"
#> [400] "splines"        "stats"          "stats4"
#> [403] "survival"       "tcltk"          "tools"
#> [406] "utils"

```

References

R Core Team. (2025). *R: A language and environment for statistical computing*. R Foundation for Statistical Computing. Vienna, Austria. <https://www.R-project.org/>