

Session Info

Ivan Jacob Agaloos Pesigan

Session

```
sessionInfo()

#> R version 4.5.1 (2025-06-13)
#> 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/libopenblasp-r0.3.26.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_0.0.21
#>
#> loaded via a namespace (and not attached):
#> [1] backports_1.5.0  R6_2.6.1          lubridate_1.9.4  xfun_0.53
#> [5] magrittr_2.0.4   glue_1.8.0        stringr_1.5.2    knitr_1.50
#> [9] timechange_0.3.0 generics_0.1.4    lifecycle_1.0.4  xml2_1.4.0
#> [13] cli_3.6.5.9000  bibtex_0.5.1      compiler_4.5.1   highr_0.11
#> [17] rprojroot_2.1.1  plyr_1.8.9        httr_1.4.7       tools_4.5.1
#> [21] evaluate_1.0.5   Rcpp_1.1.0        RefManageR_1.4.0 rlang_1.1.6
#> [25] jsonlite_2.0.0   stringi_1.8.7

```

Packages

```

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

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

```

```

#> [19] "bit64"          "bitops"         "blob"
#> [22] "bootStateSpace" "brew"           "brio"
#> [25] "broom"          "bslib"          "cachem"
#> [28] "callr"          "car"            "caracas"
#> [31] "carData"        "cellranger"     "cfrfr"
#> [34] "checkmate"      "cli"            "clipr"
#> [37] "clock"          "clusterGeneration" "coda"
#> [40] "c0de"           "collections"    "colorspace"
#> [43] "commonmark"     "conflicted"     "corpcor"
#> [46] "covr"           "cowplot"        "cpp11"
#> [49] "crayon"         "credentials"    "crosstalk"
#> [52] "cTMed"          "ctsem"          "curl"
#> [55] "data.table"     "DBI"            "dbplyr"
#> [58] "Deriv"          "desc"           "deSolve"
#> [61] "devtools"       "diagram"        "dials"
#> [64] "DiceDesign"     "diffobj"        "digest"
#> [67] "distributional" "distro"         "doBy"
#> [70] "docopt"         "downlit"        "dplyr"
#> [73] "DT"             "dtplyr"         "duckdb"
#> [76] "dynr"           "dynUtils"       "ellipse"
#> [79] "ellipsis"       "evaluate"       "expm"
#> [82] "fansi"          "farver"         "fastDummies"
#> [85] "fastmap"        "fclust"         "fda"
#> [88] "fdrtool"        "fds"            "fitDTVARm"
#> [91] "FNN"            "fontawesome"    "forcats"
#> [94] "foreach"        "Formula"        "fs"
#> [97] "fst"            "fstcore"        "furrr"

```

```

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

```

```

#> [181] "mice" "microbenchmark" "mime"
#> [184] "miniUI" "minqa" "mitml"
#> [187] "mize" "mlVAR" "mnormt"
#> [190] "modeldata" "modelenv" "modelr"
#> [193] "MplusAutomation" "multicool" "mvtnorm"
#> [196] "nloptr" "numDeriv" "nycflights13"
#> [199] "OpenMx" "openssl" "ordinal"
#> [202] "pan" "pander" "parallelly"
#> [205] "parsnip" "patchwork" "pbapply"
#> [208] "pbivnorm" "pbkrtest" "pcaPP"
#> [211] "pdftools" "pillar" "pkgbuild"
#> [214] "pkgconfig" "pkgdown" "pkgload"
#> [217] "plogr" "plyr" "png"
#> [220] "posterior" "pracma" "praise"
#> [223] "prettyunits" "printr" "processx"
#> [226] "proclim" "profvis" "progress"
#> [229] "progressr" "promises" "proto"
#> [232] "ps" "psych" "purrr"
#> [235] "qgraph" "qpdf" "quadprog"
#> [238] "quantreg" "quarto" "QuickJSR"
#> [241] "R.cache" "R.methodsS3" "R.oo"
#> [244] "R.utils" "R2jags" "R2WinBUGS"
#> [247] "R6" "ragg" "rainbow"
#> [250] "rappdirs" "rbibutils" "rcmdcheck"
#> [253] "RColorBrewer" "Rcpp" "RcppArmadillo"
#> [256] "RcppEigen" "RcppGSL" "RcppParallel"
#> [259] "RcppTOML" "RCurl" "Rdpack"

```

#> [262]	"readr"	"readxl"	"recipes"
#> [265]	"RefManager"	"reformulas"	"rematch"
#> [268]	"rematch2"	"remotes"	"reprex"
#> [271]	"reshape2"	"reticulate"	"rex"
#> [274]	"rhub"	"rjags"	"rlang"
#> [277]	"RMariaDB"	"rmarkdown"	"roxygen2"
#> [280]	"rpf"	"RPostgres"	"rProject"
#> [283]	"rprojroot"	"rsample"	"RSQLite"
#> [286]	"rstan"	"rstantools"	"rstudioapi"
#> [289]	"rversions"	"rvest"	"Ryacac"
#> [292]	"S7"	"sass"	"scales"
#> [295]	"selectr"	"semlbci"	"semmcci"
#> [298]	"sessioninfo"	"sfd"	"shape"
#> [301]	"shiny"	"simStateSpace"	"slider"
#> [304]	"snow"	"snowfall"	"sourcetools"
#> [307]	"SparseM"	"sparsevctrs"	"SQUAREM"
#> [310]	"StanHeaders"	"stringi"	"stringr"
#> [313]	"styler"	"symSEM"	"sys"
#> [316]	"systemfonts"	"tailor"	"tensorA"
#> [319]	"testthat"	"texreg"	"textshaping"
#> [322]	"tibble"	"tidymodels"	"tidyr"
#> [325]	"tidyselect"	"tidyverse"	"timechange"
#> [328]	"timeDate"	"tinytex"	"tune"
#> [331]	"tzdb"	"ucminf"	"urlchecker"
#> [334]	"usethis"	"utf8"	"uuid"
#> [337]	"V8"	"vctrs"	"viridisLite"
#> [340]	"vroom"	"waldo"	"warp"

```

#> [343] "whisker"      "whoami"      "withr"
#> [346] "workflows"    "workflowsets" "xfun"
#> [349] "xml2"         "xmlparsedata" "xopen"
#> [352] "xtable"       "yaml"        "yardstick"
#> [355] "zip"          "base"        "boot"
#> [358] "class"        "cluster"     "codetools"
#> [361] "compiler"     "datasets"    "foreign"
#> [364] "graphics"     "grDevices"   "grid"
#> [367] "KernSmooth"   "lattice"     "MASS"
#> [370] "Matrix"       "methods"     "mgcv"
#> [373] "nlme"         "nnet"        "parallel"
#> [376] "rpart"        "spatial"     "splines"
#> [379] "stats"        "stats4"      "survival"
#> [382] "tcltk"        "tools"       "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/>