

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
#>
#> 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_0.0.23
#>
#> loaded via a namespace (and not attached):
#> [1] backports_1.5.0  R6_2.6.1        lubridate_1.9.4  xfun_0.55
#> [5] magrittr_2.0.4   glue_1.8.0      stringr_1.6.0    knitr_1.51
#> [9] timechange_0.3.0 generics_0.1.4   lifecycle_1.0.4   xml2_1.5.1
#> [13] cli_3.6.5.9000  bibtex_0.5.1   compiler_4.5.2   plyr_1.8.9
#> [17] highr_0.11     rprojroot_2.1.1 httr_1.4.7      tools_4.5.2
#> [21] evaluate_1.0.5   Rcpp_1.1.0      RefManageR_1.4.0  otel_0.2.0
```

```
#> [25] rlang_1.1.6      jsonlite_2.0.0   stringi_1.8.7
```

Packages

```
unname(installed.packages()[, 1])  
  
#> [1] "fitDTVARMxID"      "rProject"        "abind"  
#> [4] "Amelia"           "arm"             "arrow"  
#> [7] "ash"               "AsioHeaders"    "askpass"  
#> [10] "assertthat"       "backports"      "base64enc"  
#> [13] "betaDelta"        "betaMC"         "betaNB"  
#> [16] "betaSandwich"    "BH"              "bibtex"  
#> [19] "BiocManager"      "BiocVersion"    "bit"  
#> [22] "bit64"            "bitops"         "blob"  
#> [25] "bootStateSpace"  "brew"            "brio"  
#> [28] "broom"            "bslib"          "cachem"  
#> [31] "callr"            "car"             "caracas"  
#> [34] "carData"          "cellranger"     "cffr"  
#> [37] "checkmate"        "cli"             "clipr"  
#> [40] "clock"             "clusterGeneration" "coda"  
#> [43] "c0de"              "collections"    "colorspace"  
#> [46] "commonmark"       "conflicted"     "corpcor"  
#> [49] "covr"              "cowplot"        "cpp11"  
#> [52] "crayon"            "credentials"    "crosstalk"  
#> [55] "cTMed"             "ctsem"          "curl"  
#> [58] "data.table"        "DBI"             "dbplyr"  
#> [61] "Deriv"             "desc"            "deSolve"  
#> [64] "devtools"          "diagram"        "dials"  
#> [67] "DiceDesign"        "diffobj"        "digest"  
#> [70] "distributional"   "distro"          "doBy"  
#> [73] "docopt"            "downlit"        "dplyr"  
#> [76] "DT"                "dtplyr"         "duckdb"  
#> [79] "dynr"               "dynUtils"       "ellipse"  
#> [82] "ellipsis"          "evaluate"       "expm"  
#> [85] "fansi"              "farver"         "fastDummies"  
#> [88] "fastmap"           "fclust"         "fda"  
#> [91] "fdrtool"           "fds"             "fitDTVARMxID"  
#> [94] "FNN"                "fontawesome"   "forcats"  
#> [97] "foreach"            "forecast"       "Formula"  
#> [100] "fracdiff"         "fs"              "fst"  
#> [103] "fstcore"          "furrr"          "future"  
#> [106] "future.apply"     "gargle"         "generics"  
#> [109] "gert"              "ggplot2"        "ggrepel"
```

```

#> [112] "gh"                  "gitcreds"           "glasso"
#> [115] "glmnet"              "globals"             "glue"
#> [118] "googledrive"         "googlesheets4"    "gower"
#> [121] "GPArotation"         "GPfit"              "graphicalVAR"
#> [124] "gridExtra"            "gsubfn"             "gtable"
#> [127] "gtools"               "hardhat"            "haven"
#> [130] "hdrcde"               "here"                "highr"
#> [133] "Hmisc"                "hms"                 "htmlTable"
#> [136] "htmltools"            "htmlwidgets"        "httpgd"
#> [139] "httpuv"               "httr"                "httr2"
#> [142] "ids"                  "ifaTools"            "igraph"
#> [145] "infer"                "ini"                 "inline"
#> [148] "ipred"                "isoband"             "iterators"
#> [151] "jomo"                 "jpeg"                "jquerylib"
#> [154] "jsonlite"              "jsonvalidate"       "kernlab"
#> [157] "knitr"                 "ks"                  "labeling"
#> [160] "Lahman"                "languageserver"    "later"
#> [163] "latex2exp"             "lava"                "lavaan"
#> [166] "lazyeval"              "lhs"                 "lifecycle"
#> [169] "lintr"                 "listenv"             "litedown"
#> [172] "littler"               "lme4"                "lmtest"
#> [175] "locfit"                "longMI"              "loo"
#> [178] "lubridate"             "magick"              "magrittr"
#> [181] "markdown"              "MatrixModels"       "matrixStats"
#> [184] "mclust"                "memoise"             "metaSEM"
#> [187] "metaVAR"               "mice"                "microbenchmark"
#> [190] "mime"                  "miniUI"              "minqa"
#> [193] "mitml"                 "mize"                "mlVAR"
#> [196] "mnormt"                "modeldata"           "modelenv"
#> [199] "modelr"                "MplusAutomation"   "multicool"
#> [202] "mvtnorm"               "nloptr"              "numDeriv"
#> [205] "nycflights13"          "OpenMx"              "openssl"
#> [208] "ordinal"                "otel"                 "pan"
#> [211] "pander"                 "parallely"           "parsnip"
#> [214] "patchwork"              "pbapply"             "pbivnorm"
#> [217] "pbkrtest"              "pcaPP"                "pdftools"
#> [220] "pillar"                 "pkgbuild"            "pkgconfig"
#> [223] "pkgdown"                "pkgload"              "plogr"
#> [226] "plyr"                   "png"                  "posterior"
#> [229] "pracma"                 "praise"              "prettyunits"
#> [232] "printr"                 "processx"            "prodlim"
#> [235] "profvis"                "progress"             "progressr"
#> [238] "promises"              "proto"                "ps"
#> [241] "psych"                  "purrr"                "qgraph"
#> [244] "qpdf"                  "quadprog"            "quantmod"

```

```

#> [247] "quantreg"           "quarto"          "QuickJSR"
#> [250] "R.cache"            "R.methodsS3"      "R.oo"
#> [253] "R.utils"             "R2jags"          "R2WinBUGS"
#> [256] "R6"                  "ragg"             "rainbow"
#> [259] "rappdirs"            "rbibutils"        "rcmdcheck"
#> [262] "RColorBrewer"       "Rcpp"             "RcppArmadillo"
#> [265] "RcppEigen"           "RcppGSL"          "RcppParallel"
#> [268] "RcppTOML"            "RCurl"            "Rdpack"
#> [271] "readr"                "readxl"           "recipes"
#> [274] "RefManageR"          "reformulas"       "rematch"
#> [277] "rematch2"            "remotes"          "reprex"
#> [280] "reshape2"            "reticulate"       "rex"
#> [283] "rhdf5"                "rhdf5filters"     "Rhdf5lib"
#> [286] "rhub"                 "rjags"            "rlang"
#> [289] "RMariaDB"            "rmarkdown"         "roxygen2"
#> [292] "rpf"                  "RPostgres"        "rProject"
#> [295] "rprojroot"           "rsample"          "RSQLite"
#> [298] "rstan"                "rstantools"       "rstudioapi"
#> [301] "rversions"            "rvest"            "Ryacas"
#> [304] "S7"                   "sass"              "scales"
#> [307] "selectr"              "semlbci"          "semcci"
#> [310] "sessioninfo"          "sfd"               "shape"
#> [313] "shiny"                "simStateSpace"    "slider"
#> [316] "snow"                  "snowfall"          "sourcetools"
#> [319] "SparseM"              "sparsevctrs"      "SQUAREM"
#> [322] "StanHeaders"          "stringi"          "stringr"
#> [325] "styler"                "symSEM"           "sys"
#> [328] "systemfonts"          "tailor"            "tensorA"
#> [331] "testthat"              "texreg"            "textshaping"
#> [334] "tibble"                "tidymodels"        "tidyr"
#> [337] "tidyselect"            "tidyverse"         "timechange"
#> [340] "timeDate"              "tinytex"           "tseries"
#> [343] "TTR"                  "tune"              "tzdb"
#> [346] "ucminf"                "unigd"             "urca"
#> [349] "urlchecker"            "usethis"           "utf8"
#> [352] "uuid"                  "V8"                "vctrs"
#> [355] "viridisLite"           "vroom"             "waldo"
#> [358] "warp"                  "whisker"           "whoami"
#> [361] "withr"                 "workflows"         "workflowsets"
#> [364] "xfun"                  "xml2"              "xmlparsedata"
#> [367] "xopen"                 "xtable"            "xts"
#> [370] "yaml"                  "yardstick"         "zip"
#> [373] "zoo"                   "base"              "boot"
#> [376] "class"                 "cluster"           "codetools"
#> [379] "compiler"              "datasets"          "foreign"

```

```
#> [382] "graphics"           "grDevices"        "grid"
#> [385] "KernSmooth"         "lattice"          "MASS"
#> [388] "Matrix"             "methods"          "mgcv"
#> [391] "nlme"                "nnet"             "parallel"
#> [394] "rpart"               "spatial"          "splines"
#> [397] "stats"               "stats4"           "survival"
#> [400] "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/>