

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_0.56
#> [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_1.0.5  xml2_1.5.2
#> [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_1.1.1      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] "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/>