Session Info

Ivan Jacob Agaloos Pesigan

Session

```r
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/libopenblasp-r0.3.26.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_1.0.5  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_1.1.7      jsonlite_2.0.0   stringi_1.8.7
```

Packages

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

#>  [1] "cTMed"        "devtools"     "gert"
#>  [4] "later"        "lifecycle"    "purrr"
#>  [7] "rlang"        "rProject"     "abind"
#> [10] "Amelia"       "arm"          "arrow"
#> [13] "ash"          "AsioHeaders"  "askpass"
#> [16] "assertthat"   "backports"    "base64enc"
```

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

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

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

```
#> [262] "R6"            "ragg"            "rainbow"
#> [265] "rappdirs"       "rbibutils"       "rcmdcheck"
#> [268] "RColorBrewer"   "Rcpp"            "RcppArmadillo"
#> [271] "RcppEigen"      "RcppGSL"         "RcppParallel"
#> [274] "RcppTOML"       "RCurl"           "Rdpack"
#> [277] "readr"          "readxl"          "recipes"
#> [280] "RefManageR"     "reformulas"      "rematch"
#> [283] "rematch2"       "remotes"         "reprex"
#> [286] "reshape2"       "reticulate"      "rex"
#> [289] "rhdf5"          "rhdf5filters"    "Rhdf5lib"
#> [292] "rhub"           "rjags"           "rlang"
#> [295] "RMariaDB"       "rmarkdown"       "roxygen2"
#> [298] "rpf"            "RPostgres"       "rProject"
#> [301] "rprojroot"      "rsample"         "RSQLite"
#> [304] "rstan"          "rstantools"      "rstudioapi"
#> [307] "rversions"      "rvest"           "Ryacas"
#> [310] "S7"             "sass"            "scales"
#> [313] "selectr"        "semlbci"         "semmcci"
#> [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"       "tseries"
#> [349] "TTR"            "tune"          "tzdb"
#> [352] "ucminf"         "unigd"         "urca"
#> [355] "urlchecker"     "usethis"       "utf8"
#> [358] "uuid"           "V8"            "vctrs"
#> [361] "viridisLite"    "vroom"         "waldo"
#> [364] "warp"           "whisker"       "whoami"
#> [367] "withr"          "workflows"     "workflowsets"
#> [370] "xfun"           "xml2"          "xmlparsedata"
#> [373] "xopen"          "xtable"        "xts"
#> [376] "yaml"           "yardstick"     "zip"
#> [379] "zoo"            "base"          "boot"
#> [382] "class"          "cluster"       "codetools"
#> [385] "compiler"       "datasets"      "foreign"
#> [388] "graphics"       "grDevices"     "grid"
#> [391] "KernSmooth"     "lattice"       "MASS"
#> [394] "Matrix"         "methods"       "mgcv"
#> [397] "nlme"           "nnet"          "parallel"
#> [400] "rpart"          "spatial"       "splines"
#> [403] "stats"          "stats4"        "survival"
#> [406] "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/