

Session Info

Ivan Jacob Agaloos Pesigan

Session

```
sessionInfo()
```

```
#> R version 4.5.0 (2025-04-11)
#> Platform: x86_64-pc-linux-gnu
#> Running under: Ubuntu 24.04.2 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-p-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_0.0.18
#>
#> loaded via a namespace (and not attached):
#>  [1] backports_1.5.0  R6_2.6.1         lubridate_1.9.4  xfun_0.52
#>  [5] magrittr_2.0.3   glue_1.8.0       stringr_1.5.1    knitr_1.50
#>  [9] timechange_0.3.0 generics_0.1.3    lifecycle_1.0.4  xml2_1.3.8
#> [13] cli_3.6.5.9000  bibtex_0.5.1     compiler_4.5.0   highr_0.11
#> [17] rprojroot_2.0.4  plyr_1.8.9       httr_1.4.7       tools_4.5.0
#> [21] evaluate_1.0.3   Rcpp_1.0.14      RefManageR_1.4.0 rlang_1.1.6
```

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

Packages

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

```
#> [1] "simStateSpace"      "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"     "distribro"           "doBy"
#> [70] "docopt"             "doFuture"            "downlit"
#> [73] "dplyr"              "DT"                  "dtplyr"
#> [76] "duckdb"             "dynr"                "dynUtils"
#> [79] "ellipse"           "ellipsoids"          "evaluate"
#> [82] "expm"               "fans"                "farver"
#> [85] "fastDummies"        "fastmap"             "fclust"
#> [88] "fda"                "fdrtool"             "fds"
#> [91] "fitCTVARMx"         "fitDTVARMx"          "FNN"
#> [94] "fontawesome"        "forcats"             "foreach"
#> [97] "Formula"            "fs"                  "fst"
#> [100] "fstcore"            "furrr"               "future"
#> [103] "future.apply"       "gargle"               "generics"
#> [106] "gert"               "ggplot2"              "ggrepel"
#> [109] "gh"                 "gitcreds"             "glasso"
```

```

#> [112] "glmnet"           "globals"          "glue"
#> [115] "googledrive"      "googlesheets4"    "gower"
#> [118] "GPArotation"      "GPfit"             "graphicalVAR"
#> [121] "gridExtra"        "gsubfn"            "gtable"
#> [124] "gtools"           "hardhat"           "haven"
#> [127] "hdcrcde"          "here"              "highr"
#> [130] "Hmisc"            "hms"               "htmlTable"
#> [133] "htmltools"        "htmlwidgets"       "httpuv"
#> [136] "httr"             "httr2"             "ids"
#> [139] "ifaTools"         "igraph"            "infer"
#> [142] "ini"              "inline"            "ipred"
#> [145] "isoband"          "iterators"         "jomo"
#> [148] "jpeg"             "jquerylib"         "jsonlite"
#> [151] "jsonvalidate"     "kernlab"           "knitr"
#> [154] "ks"               "labeling"          "Lahman"
#> [157] "languageserver"   "later"             "latex2exp"
#> [160] "lava"             "lavaan"            "lazyeval"
#> [163] "lhs"              "lifecycle"         "lintr"
#> [166] "listenv"          "litedown"          "littler"
#> [169] "lme4"             "locfit"            "longMI"
#> [172] "loo"              "lubridate"         "magick"
#> [175] "magrittr"         "markdown"          "MatrixModels"
#> [178] "matrixStats"      "mclust"            "memoise"
#> [181] "metaSEM"          "metaVAR"           "mice"
#> [184] "microbenchmark"   "mime"              "miniUI"
#> [187] "minqa"            "mitml"             "mize"
#> [190] "mlVAR"            "mnormt"            "modeldata"
#> [193] "modelenv"         "modelr"            "MplusAutomation"
#> [196] "multicool"        "munsell"           "mvtnorm"
#> [199] "nloptr"           "numDeriv"          "nycflights13"
#> [202] "OpenMx"           "openssl"           "ordinal"
#> [205] "pan"              "pander"            "parallelly"
#> [208] "parsnip"          "patchwork"         "pbapply"
#> [211] "pbivnorm"         "pbkrtest"          "pcaPP"
#> [214] "pdftools"         "pillar"            "pkgbuild"
#> [217] "pkgconfig"        "pkgdown"           "pkgload"
#> [220] "plogr"            "plyr"              "png"
#> [223] "posterior"        "pracma"            "praise"
#> [226] "prettyunits"      "printr"            "processx"
#> [229] "prodlim"          "profvis"           "progress"
#> [232] "progressr"        "promises"          "proto"
#> [235] "ps"               "psych"             "purrr"
#> [238] "qgraph"           "qpdf"              "quadprog"
#> [241] "quantreg"         "quarto"            "QuickJSR"
#> [244] "R.cache"          "R.methodsS3"       "R.oo"

```

#> [247]	"R.utils"	"R6"	"ragg"
#> [250]	"rainbow"	"rappdirs"	"rbibutils"
#> [253]	"rcmdcheck"	"RColorBrewer"	"Rcpp"
#> [256]	"RcppArmadillo"	"RcppEigen"	"RcppGSL"
#> [259]	"RcppParallel"	"RcppTOML"	"RCurl"
#> [262]	"Rdpack"	"readr"	"readxl"
#> [265]	"recipes"	"RefManageR"	"reformulas"
#> [268]	"rematch"	"rematch2"	"remotes"
#> [271]	"reprex"	"reshape2"	"reticulate"
#> [274]	"rex"	"rhub"	"rjags"
#> [277]	"rlang"	"RMariaDB"	"rmarkdown"
#> [280]	"roxygen2"	"rpf"	"RPostgres"
#> [283]	"rProject"	"rprojroot"	"rsample"
#> [286]	"RSQLite"	"rstan"	"rstantools"
#> [289]	"rstudioapi"	"rversions"	"rvest"
#> [292]	"Ryacas"	"sass"	"scales"
#> [295]	"selectr"	"semlbci"	"semmccci"
#> [298]	"sessioninfo"	"sfd"	"shape"
#> [301]	"shiny"	"simStateSpace"	"slider"
#> [304]	"snow"	"snowfall"	"sourcetools"
#> [307]	"SparseM"	"sparsevctrs"	"SQUAREM"
#> [310]	"StanHeaders"	"statmod"	"stringi"
#> [313]	"stringr"	"styler"	"symSEM"
#> [316]	"sys"	"systemfonts"	"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"	"viridis"
#> [340]	"viridisLite"	"vroom"	"waldo"
#> [343]	"warp"	"whisker"	"whoami"
#> [346]	"withr"	"workflows"	"workflowsets"
#> [349]	"xfun"	"xml2"	"xmlparsedata"
#> [352]	"xopen"	"xtable"	"yaml"
#> [355]	"yardstick"	"zip"	"base"
#> [358]	"boot"	"class"	"cluster"
#> [361]	"codetools"	"compiler"	"datasets"
#> [364]	"foreign"	"graphics"	"grDevices"
#> [367]	"grid"	"KernSmooth"	"lattice"
#> [370]	"MASS"	"Matrix"	"methods"
#> [373]	"mgcv"	"nlme"	"nnet"
#> [376]	"parallel"	"rpart"	"spatial"
#> [379]	"splines"	"stats"	"stats4"

```
#> [382] "survival"          "tcltk"             "tools"
#> [385] "utils"
```

References

R Core Team. (2024). *R: A language and environment for statistical computing*. R Foundation for Statistical Computing. Vienna, Austria. <https://www.R-project.org/>