

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

Packages

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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"
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#> [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"

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| | | | |
|----------|-----------------|-----------------|----------------|
| #> [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" |

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