

# Session Info

Ivan Jacob Agaloos Pesigan

## Session

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sessionInfo()

#> R version 4.4.1 (2024-06-14)
#> Platform: x86_64-pc-linux-gnu
#> Running under: Ubuntu 22.04.4 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-p0.3.20.so; LAPACK version 3.10.3
#>
#> 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
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#> tzcode source: system (glibc)
#>
#> attached base packages:
#> [1] stats      graphics  grDevices  utils      datasets  methods   base
#>
#> other attached packages:
#> [1] rProject_0.0.14
#>
#> loaded via a namespace (and not attached):
#> [1] backports_1.5.0  R6_2.5.1          lubridate_1.9.3  xfun_0.46
#> [5] magrittr_2.0.3   glue_1.7.0        stringr_1.5.1    knitr_1.48
#> [9] timechange_0.3.0 generics_0.1.3    lifecycle_1.0.4  xml2_1.3.6
#> [13] cli_3.6.3.9000   bibtex_0.5.1      compiler_4.4.1   highr_0.11
#> [17] rprojroot_2.0.4  plyr_1.8.9        httr_1.4.7       tools_4.4.1
#> [21] evaluate_0.24.0  Rcpp_1.0.13       RefManageR_1.4.0 rlang_1.1.4
#> [25] jsonlite_1.8.8   stringi_1.8.4

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## Packages

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

#> [1] "metaVAR"      "abind"         "arm"
#> [4] "arrow"        "ash"           "AsioHeaders"
#> [7] "askpass"      "assertthat"    "backports"
#> [10] "base64enc"    "betaDelta"     "betaMC"
#> [13] "betaNB"       "betaSandwich"  "BH"
#> [16] "bibtex"       "BiocManager"   "bit"

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#> [19] "bit64"          "bitops"         "blob"
#> [22] "brew"           "brio"           "broom"
#> [25] "bslib"          "cachem"         "callr"
#> [28] "car"            "caracas"        "carData"
#> [31] "cellranger"     "cfr"            "checkmate"
#> [34] "cli"            "clipr"          "clock"
#> [37] "clusterGeneration" "coda"          "c0de"
#> [40] "collections"    "colorspace"     "commonmark"
#> [43] "conflicted"     "corpcor"        "covr"
#> [46] "cowplot"        "cpp11"          "crayon"
#> [49] "credentials"    "crosstalk"      "cTMed"
#> [52] "ctsem"          "curl"           "cyclocomp"
#> [55] "data.table"     "DBI"            "dbplyr"
#> [58] "Deriv"          "desc"           "deSolve"
#> [61] "devtools"       "diagram"        "dials"
#> [64] "DiceDesign"     "diffobj"        "digest"
#> [67] "distributional" "distro"         "doBy"
#> [70] "docopt"         "doFuture"       "downlit"
#> [73] "dplyr"          "DT"             "dtplyr"
#> [76] "duckdb"         "dynr"           "dynUtils"
#> [79] "ellipse"        "ellipsis"       "evaluate"
#> [82] "expm"           "fansib"         "farver"
#> [85] "fastDummies"    "fastmap"        "fclust"
#> [88] "fda"            "fdrtool"        "fds"
#> [91] "fitCTVARMx"     "fitDTVARMx"     "FNN"
#> [94] "fontawesome"    "forcats"        "foreach"
#> [97] "Formula"        "fs"             "fst"

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#> [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"     "httpgd"
#> [136] "httpuv"           "httr"            "httr2"
#> [139] "ids"              "ifaTools"        "igraph"
#> [142] "infer"            "ini"             "inline"
#> [145] "ipred"            "isoband"         "iterators"
#> [148] "jomo"             "jpeg"            "jquerylib"
#> [151] "jsonlite"         "jsonvalidate"    "kernlab"
#> [154] "knitr"            "ks"              "labeling"
#> [157] "Lahman"           "languageserver"  "later"
#> [160] "latex2exp"        "lava"            "lavaan"
#> [163] "lazyeval"         "lhs"             "lifecycle"
#> [166] "lintr"            "listenv"         "littler"
#> [169] "lme4"             "locfit"          "longMI"
#> [172] "loo"              "lubridate"       "magick"
#> [175] "magrittr"         "markdown"        "MatrixModels"
#> [178] "matrixStats"      "mclust"          "memoise"

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#> [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"

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#> [262]	"Rdpack"	"readr"	"readxl"
#> [265]	"recipes"	"RefManageR"	"rematch"
#> [268]	"rematch2"	"remotes"	"reprex"
#> [271]	"reshape2"	"reticulate"	"rex"
#> [274]	"rhub"	"rlang"	"RMariaDB"
#> [277]	"rmarkdown"	"roxygen2"	"rpf"
#> [280]	"RPostgres"	"rProject"	"rprojroot"
#> [283]	"rsample"	"RSQLite"	"rstan"
#> [286]	"rstantools"	"rstudioapi"	"rversions"
#> [289]	"rvest"	"Ryacas"	"sass"
#> [292]	"scales"	"selectr"	"semlbci"
#> [295]	"semmccci"	"sessioninfo"	"sfd"
#> [298]	"shape"	"shiny"	"simStateSpace"
#> [301]	"slider"	"snow"	"snowfall"
#> [304]	"sourcetools"	"SparseM"	"SQUAREM"
#> [307]	"StanHeaders"	"statmod"	"stringi"
#> [310]	"stringr"	"styler"	"symSEM"
#> [313]	"sys"	"systemfonts"	"tensorA"
#> [316]	"testthat"	"texreg"	"textshaping"
#> [319]	"tibble"	"tidymodels"	"tidyr"
#> [322]	"tidyselect"	"tidyverse"	"timechange"
#> [325]	"timeDate"	"tinytex"	"tune"
#> [328]	"tzdb"	"ucminf"	"unigd"
#> [331]	"urlchecker"	"usethis"	"utf8"
#> [334]	"uuid"	"V8"	"vctrs"
#> [337]	"viridis"	"viridisLite"	"vroom"
#> [340]	"waldo"	"warp"	"whisker"

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#> [343] "whoami"          "withr"          "workflows"
#> [346] "workflowsets"    "xfun"           "xml2"
#> [349] "xmlparsedata"    "xopen"          "xtable"
#> [352] "yaml"            "yardstick"      "zip"
#> [355] "base"            "boot"           "class"
#> [358] "cluster"         "codetools"      "compiler"
#> [361] "datasets"        "foreign"         "graphics"
#> [364] "grDevices"       "grid"           "KernSmooth"
#> [367] "lattice"         "MASS"           "Matrix"
#> [370] "methods"        "mgcv"           "nlme"
#> [373] "nnet"            "parallel"       "rpart"
#> [376] "spatial"         "splines"        "stats"
#> [379] "stats4"          "survival"       "tcltk"
#> [382] "tools"          "utils"

```

## References

R Core Team. (2023). *R: A language and environment for statistical computing*. R Foundation for Statistical Computing. Vienna, Austria. <https://www.R-project.org/>