

# Session Info

Ivan Jacob Agaloos Pesigan

## Session

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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-p0.3.26.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
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#> tzcode source: system (glibc)
#>
#> attached base packages:
#> [1] stats      graphics  grDevices  utils      datasets  methods   base
#>
#> other attached packages:
#> [1] rProject_0.0.18
#>
#> 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

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## Packages

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

#> [1] "fitDTVARmX"      "metaVAR"          "rpf"
#> [4] "simStateSpace"   "abind"             "Amelia"
#> [7] "arm"             "arrow"             "ash"
#> [10] "askpass"         "assertthat"        "backports"
#> [13] "base64enc"       "betaDelta"         "betaMC"
#> [16] "betaNB"          "betaSandwich"      "BH"

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#> [19] "bibtex"          "BiocManager"      "bit"
#> [22] "bit64"           "bitops"            "blob"
#> [25] "bootStateSpace"  "brew"              "brio"
#> [28] "broom"           "bslib"             "cachem"
#> [31] "callr"           "car"                "caracas"
#> [34] "carData"         "cellranger"        "cfr"
#> [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"          "doFuture"           "downlit"
#> [76] "dplyr"           "DT"                 "dtplyr"
#> [79] "duckdb"          "dynr"               "dynUtils"
#> [82] "ellipse"         "ellipsis"           "evaluate"
#> [85] "expm"            "fans"               "farver"
#> [88] "fastDummies"     "fastmap"            "fclust"
#> [91] "fda"             "fdrtool"            "fds"
#> [94] "fitCTVARMx"      "fitDTVARMx"         "FNN"
#> [97] "fontawesome"     "forcats"            "foreach"

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#> [100] "Formula"      "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"   "httpuv"
#> [139] "httr"        "httr2"         "ids"
#> [142] "ifaTools"    "igraph"        "infer"
#> [145] "ini"         "inline"        "ipred"
#> [148] "isoband"     "iterators"     "jomo"
#> [151] "jpeg"        "jquerylib"     "jsonlite"
#> [154] "jsonvalidate" "kernlab"       "knitr"
#> [157] "ks"          "labeling"      "Lahman"
#> [160] "languageserver" "later"         "latex2exp"
#> [163] "lava"        "lavaan"        "lazyeval"
#> [166] "lhs"         "lifecycle"     "lintr"
#> [169] "listenv"     "litedown"      "littler"
#> [172] "lme4"        "locfit"        "longMI"
#> [175] "loo"         "lubridate"     "magick"
#> [178] "magrittr"    "markdown"      "MatrixModels"

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#> [181] "matrixStats"      "mclust"           "memoise"
#> [184] "metaSEM"          "metaVAR"          "mice"
#> [187] "microbenchmark"   "mime"             "miniUI"
#> [190] "minqa"            "mitml"            "mize"
#> [193] "mlVAR"            "mnormt"           "modeldata"
#> [196] "modelenv"         "modelr"           "MplusAutomation"
#> [199] "multicool"        "munsell"          "mvtnorm"
#> [202] "nloptr"           "numDeriv"         "nycflights13"
#> [205] "OpenMx"           "openssl"          "ordinal"
#> [208] "pan"              "pander"           "parallelly"
#> [211] "parsnip"          "patchwork"        "pbapply"
#> [214] "pbivnorm"         "pbkrtest"         "pcaPP"
#> [217] "pdftools"         "pillar"           "pkgbuild"
#> [220] "pkgconfig"        "pkgdown"          "pkgload"
#> [223] "plogr"            "plyr"             "png"
#> [226] "posterior"        "pracma"           "praise"
#> [229] "prettyunits"      "printr"           "processx"
#> [232] "prodlim"          "profvis"          "progress"
#> [235] "progressr"        "promises"         "proto"
#> [238] "ps"               "psych"            "purrr"
#> [241] "qgraph"           "qpdf"             "quadprog"
#> [244] "quantreg"         "quarto"           "QuickJSR"
#> [247] "R.cache"          "R.methodsS3"      "R.oo"
#> [250] "R.utils"          "R6"               "ragg"
#> [253] "rainbow"          "rappdirs"         "rbibutils"
#> [256] "rcmdcheck"        "RColorBrewer"     "Rcpp"
#> [259] "RcppArmadillo"    "RcppEigen"        "RcppGSL"

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

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#> [343] "viridisLite"      "vroom"            "waldo"
#> [346] "warp"             "whisker"          "whoami"
#> [349] "withr"            "workflows"        "workflowsets"
#> [352] "xfun"             "xml2"             "xmlparsedata"
#> [355] "xopen"            "xtable"           "yaml"
#> [358] "yardstick"        "zip"              "base"
#> [361] "boot"             "class"            "cluster"
#> [364] "codetools"        "compiler"         "datasets"
#> [367] "foreign"          "graphics"         "grDevices"
#> [370] "grid"             "KernSmooth"       "lattice"
#> [373] "MASS"             "Matrix"           "methods"
#> [376] "mgcv"             "nlme"             "nnet"
#> [379] "parallel"         "rpart"            "spatial"
#> [382] "splines"          "stats"            "stats4"
#> [385] "survival"         "tcltk"            "tools"
#> [388] "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/>