

# Session Info

Ivan Jacob Agaloos Pesigan

## Session

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sessionInfo()

#> R version 4.4.0 (2024-04-24)
#> 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_0.0.13
#>
#> loaded via a namespace (and not attached):
#> [1] backports_1.5.0 R6_2.5.1      lubridate_1.9.3 xfun_0.44
#> [5] magrittr_2.0.3  glue_1.7.0    stringr_1.5.1   knitr_1.47
#> [9] timechange_0.3.0 generics_0.1.3 lifecycle_1.0.4 xml2_1.3.6
#> [13] cli_3.6.2.9000  bibtex_0.5.1  compiler_4.4.0  highr_0.11
#> [17] rprojroot_2.0.4 plyr_1.8.9    httr_1.4.7      tools_4.4.0
#> [21] evaluate_0.23   Rcpp_1.0.12   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] "betaNB"      "abind"       "arrow"       "ash"
#> [5] "AsioHeaders" "askpass"     "assertthat"  "backports"
#> [9] "base64enc"   "betaDelta"   "betaMC"      "betaNB"
#> [13] "betaSandwich" "BH"          "bibtex"      "BiocManager"
#> [17] "bit"         "bit64"       "bitops"      "blob"
#> [21] "brew"        "brio"        "broom"       "bslib"

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#> [25] "cachem"      "callr"      "car"        "caracas"
#> [29] "carData"     "cellranger" "cffr"       "checkmate"
#> [33] "cli"         "clipr"      "clock"      "coda"
#> [37] "c0de"        "collections" "colorspace" "commonmark"
#> [41] "conflicted"  "corpcor"    "covr"       "cowplot"
#> [45] "cpp11"       "crayon"     "credentials" "crosstalk"
#> [49] "cTMed"       "ctsem"      "curl"       "cyclocomp"
#> [53] "data.table"  "DBI"        "dbplyr"     "Deriv"
#> [57] "desc"        "deSolve"    "devtools"   "diagram"
#> [61] "dials"       "DiceDesign" "diffobj"    "digest"
#> [65] "distributional" "distro"    "doBy"       "docopt"
#> [69] "doFuture"    "downlit"    "dplyr"      "DT"
#> [73] "dtplyr"      "duckdb"     "dynr"       "dynUtils"
#> [77] "ellipse"     "ellipsis"   "evaluate"   "expm"
#> [81] "fansi"       "farver"     "fastDummies" "fastmap"
#> [85] "fclust"      "fda"        "fdrtool"    "fds"
#> [89] "FNN"         "fontawesome" "forcats"    "foreach"
#> [93] "Formula"     "fs"         "fst"        "fstcore"
#> [97] "furryr"      "future"     "future.apply" "gargle"
#> [101] "generics"    "gert"       "ggplot2"    "ggrepel"
#> [105] "gh"          "gitcreds"   "glasso"     "glmnet"
#> [109] "globals"     "glue"       "googledrive" "googlesheets4"
#> [113] "gower"       "GPfit"      "gridExtra"  "gsubfn"
#> [117] "gtable"      "gtools"     "hardhat"    "haven"
#> [121] "hdcrcde"     "here"       "highr"      "Hmisc"
#> [125] "hms"         "htmlTable"  "htmltools"  "htmlwidgets"
#> [129] "httpgd"      "httpuv"     "httr"       "httr2"

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#> [133]	"ids"	"ifaTools"	"igraph"	"infer"
#> [137]	"ini"	"inline"	"ipred"	"isoband"
#> [141]	"iterators"	"jomo"	"jpeg"	"jquerylib"
#> [145]	"jsonlite"	"jsonvalidate"	"kernlab"	"knitr"
#> [149]	"ks"	"labeling"	"Lahman"	"languageserver"
#> [153]	"later"	"latex2exp"	"lava"	"lavaan"
#> [157]	"lazyeval"	"lhs"	"lifecycle"	"lintr"
#> [161]	"listenv"	"littler"	"lme4"	"locfit"
#> [165]	"longMI"	"loo"	"lubridate"	"magick"
#> [169]	"magrittr"	"markdown"	"MatrixModels"	"matrixStats"
#> [173]	"mclust"	"memoise"	"metaSEM"	"mice"
#> [177]	"microbenchmark"	"mime"	"miniUI"	"minqa"
#> [181]	"mitml"	"mize"	"mnormt"	"modeldata"
#> [185]	"modelenv"	"modelr"	"MplusAutomation"	"multicool"
#> [189]	"munsell"	"mvtnorm"	"nloptr"	"numDeriv"
#> [193]	"nycflights13"	"OpenMx"	"openssl"	"ordinal"
#> [197]	"pan"	"pander"	"parallelly"	"parsnip"
#> [201]	"patchwork"	"pbapply"	"pbivnorm"	"pbkrtest"
#> [205]	"pcaPP"	"pdftools"	"pillar"	"pkgbuild"
#> [209]	"pkgconfig"	"pkgdown"	"pkgload"	"plogr"
#> [213]	"plyr"	"png"	"posterior"	"pracma"
#> [217]	"praise"	"prettyunits"	"printr"	"processx"
#> [221]	"prodlim"	"profvis"	"progress"	"progressr"
#> [225]	"promises"	"proto"	"ps"	"psych"
#> [229]	"purrr"	"qgraph"	"qpdf"	"quadprog"
#> [233]	"quantreg"	"quarto"	"QuickJSR"	"R.cache"
#> [237]	"R.methodsS3"	"R.oo"	"R.utils"	"R6"

#> [241]	"ragg"	"rainbow"	"rappdirs"	"rbibutils"
#> [245]	"rcmdcheck"	"RColorBrewer"	"Rcpp"	"RcppArmadillo"
#> [249]	"RcppEigen"	"RcppGSL"	"RcppParallel"	"RcppTOML"
#> [253]	"RCurl"	"Rdpack"	"readr"	"readxl"
#> [257]	"recipes"	"RefManageR"	"rematch"	"rematch2"
#> [261]	"remotes"	"reprex"	"reshape2"	"reticulate"
#> [265]	"rex"	"rhub"	"rlang"	"RMariaDB"
#> [269]	"rmarkdown"	"roxygen2"	"rpf"	"RPostgres"
#> [273]	"rProject"	"rprojroot"	"rsample"	"RSQLite"
#> [277]	"rstan"	"rstantools"	"rstudioapi"	"rversions"
#> [281]	"rvest"	"Ryacas"	"sass"	"scales"
#> [285]	"selectr"	"semlbci"	"semmcci"	"sessioninfo"
#> [289]	"shape"	"shiny"	"simStateSpace"	"slider"
#> [293]	"snow"	"snowfall"	"sourcetools"	"SparseM"
#> [297]	"SQUAREM"	"StanHeaders"	"statmod"	"stringi"
#> [301]	"stringr"	"styler"	"symSEM"	"sys"
#> [305]	"systemfonts"	"tensorA"	"testthat"	"texreg"
#> [309]	"textshaping"	"tibble"	"tidymodels"	"tidyr"
#> [313]	"tidyselect"	"tidyverse"	"timechange"	"timeDate"
#> [317]	"tinytex"	"tune"	"tzdb"	"ucminf"
#> [321]	"unigd"	"urlchecker"	"usethis"	"utf8"
#> [325]	"uuid"	"V8"	"vctrs"	"viridis"
#> [329]	"viridisLite"	"vroom"	"waldo"	"warp"
#> [333]	"whisker"	"whoami"	"withr"	"workflows"
#> [337]	"workflowsets"	"xfun"	"xml2"	"xmlparsedata"
#> [341]	"xopen"	"xtable"	"yaml"	"yardstick"
#> [345]	"zip"	"base"	"boot"	"class"

```
#> [349] "cluster"      "codetools"    "compiler"     "datasets"
#> [353] "foreign"      "graphics"     "grDevices"    "grid"
#> [357] "KernSmooth"  "lattice"      "MASS"         "Matrix"
#> [361] "methods"     "mgcv"         "nlme"         "nnet"
#> [365] "parallel"    "rpart"        "spatial"      "splines"
#> [369] "stats"       "stats4"       "survival"     "tcltk"
#> [373] "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/>