

# Session Info

Ivan Jacob Agaloos Pesigan

## Session

```
sessionInfo()
```

```
#> R version 4.5.2 (2025-10-31)
#> Platform: x86_64-pc-linux-gnu
#> Running under: Ubuntu 24.04.3 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_0.0.23
#>
#> loaded via a namespace (and not attached):
#>  [1] backports_1.5.0  R6_2.6.1         lubridate_1.9.4  xfun_0.56
#>  [5] magrittr_2.0.4   glue_1.8.0       stringr_1.6.0    knitr_1.51
#>  [9] timechange_0.3.0 generics_0.1.4    lifecycle_1.0.5  xml2_1.5.2
#> [13] cli_3.6.5.9000   bibtex_0.5.1     compiler_4.5.2   plyr_1.8.9
#> [17] highr_0.11       rprojroot_2.1.1  httr_1.4.7       tools_4.5.2
#> [21] evaluate_1.0.5   Rcpp_1.1.1       RefManageR_1.4.0 otel_0.2.0
```

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#> [25] rlang_1.1.7      jsonlite_2.0.0    stringi_1.8.7
```

## Packages

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

```
#> [1] "fitDTVARMxID"      "rProject"          "abind"
#> [4] "Amelia"            "arm"               "arrow"
#> [7] "ash"               "AsioHeaders"       "askpass"
#> [10] "assertthat"        "backports"         "base64enc"
#> [13] "betaDelta"         "betaMC"            "betaNB"
#> [16] "betaSandwich"      "BH"                "bibtex"
#> [19] "BiocManager"       "BiocVersion"       "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"     "distrib"           "doBy"
#> [73] "docopt"            "downlit"           "dplyr"
#> [76] "DT"                "dtplyr"            "duckdb"
#> [79] "dynr"              "dynUtils"          "ellipse"
#> [82] "ellipsis"          "evaluate"          "expm"
#> [85] "fansi"             "farver"            "fastDummies"
#> [88] "fastmap"           "fclust"            "fda"
#> [91] "fdrtool"           "fds"               "fitDTVARMxID"
#> [94] "FNN"               "fontawesome"       "forcats"
#> [97] "foreach"           "forecast"          "Formula"
#> [100] "fracdiff"          "fs"                "fst"
#> [103] "fstcore"           "frrrr"             "future"
#> [106] "future.apply"      "gargle"            "generics"
#> [109] "gert"              "ggplot2"           "ggrepel"
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#> [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" "httpgd"
#> [139] "httpuv" "httr" "httr2"
#> [142] "ids" "ifaTools" "igraph"
#> [145] "infer" "ini" "inline"
#> [148] "ipred" "isoband" "iterators"
#> [151] "jomo" "jpeg" "jquerylib"
#> [154] "jsonlite" "jsonvalidate" "kernlab"
#> [157] "knitr" "ks" "labeling"
#> [160] "Lahman" "languageserver" "later"
#> [163] "latex2exp" "lava" "lavaan"
#> [166] "lazyeval" "lhs" "lifecycle"
#> [169] "lintr" "listenv" "litedown"
#> [172] "littler" "lme4" "lmtree"
#> [175] "locfit" "longMI" "loo"
#> [178] "lubridate" "magick" "magrittr"
#> [181] "markdown" "MatrixModels" "matrixStats"
#> [184] "mclust" "memoise" "metaSEM"
#> [187] "metaVAR" "mice" "microbenchmark"
#> [190] "mime" "miniUI" "minqa"
#> [193] "mitml" "mize" "mlVAR"
#> [196] "mnormt" "modeldata" "modelenv"
#> [199] "modelr" "MplusAutomation" "multicool"
#> [202] "mvtnorm" "nloptr" "numDeriv"
#> [205] "nycflights13" "OpenMx" "openssl"
#> [208] "ordinal" "otel" "pan"
#> [211] "pander" "parallelly" "parsnip"
#> [214] "patchwork" "pbapply" "pbivnorm"
#> [217] "pbkrtest" "pcaPP" "pdftools"
#> [220] "pillar" "pkgbuild" "pkgconfig"
#> [223] "pkgdown" "pkgload" "plogr"
#> [226] "plyr" "png" "posterior"
#> [229] "pracma" "praise" "prettyunits"
#> [232] "printr" "processx" "prodlim"
#> [235] "profvis" "progress" "progressr"
#> [238] "promises" "proto" "ps"
#> [241] "psych" "purrr" "qgraph"
#> [244] "qpdf" "quadprog" "quantmod"

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#> [247]	"quantreg"	"quarto"	"QuickJSR"
#> [250]	"R.cache"	"R.methodsS3"	"R.oo"
#> [253]	"R.utils"	"R2jags"	"R2WinBUGS"
#> [256]	"R6"	"ragg"	"rainbow"
#> [259]	"rappdirs"	"rbibutils"	"rcmdcheck"
#> [262]	"RColorBrewer"	"Rcpp"	"RcppArmadillo"
#> [265]	"RcppEigen"	"RcppGSL"	"RcppParallel"
#> [268]	"RcppTOML"	"RCurl"	"Rdpack"
#> [271]	"readr"	"readxl"	"recipes"
#> [274]	"RefManager"	"reformulas"	"rematch"
#> [277]	"rematch2"	"remotes"	"reprex"
#> [280]	"reshape2"	"reticulate"	"rex"
#> [283]	"rhdf5"	"rhdf5filters"	"Rhdf5lib"
#> [286]	"rhub"	"rjags"	"rlang"
#> [289]	"RMariaDB"	"rmarkdown"	"roxygen2"
#> [292]	"rpf"	"RPostgres"	"rProject"
#> [295]	"rprojroot"	"rsample"	"RSQLite"
#> [298]	"rstan"	"rstantools"	"rstudioapi"
#> [301]	"rversions"	"rvest"	"Ryacac"
#> [304]	"S7"	"sass"	"scales"
#> [307]	"selectr"	"semlbci"	"semmcci"
#> [310]	"sessioninfo"	"sfd"	"shape"
#> [313]	"shiny"	"simStateSpace"	"slider"
#> [316]	"snow"	"snowfall"	"sourcetools"
#> [319]	"SparseM"	"sparsevctrs"	"SQUAREM"
#> [322]	"StanHeaders"	"stringi"	"stringr"
#> [325]	"styler"	"symSEM"	"sys"
#> [328]	"systemfonts"	"tailor"	"tensorA"
#> [331]	"testthat"	"texreg"	"textshaping"
#> [334]	"tibble"	"tidymodels"	"tidyr"
#> [337]	"tidyselect"	"tidyverse"	"timechange"
#> [340]	"timeDate"	"tinytex"	"tseries"
#> [343]	"TTR"	"tune"	"tzdb"
#> [346]	"ucminf"	"unigd"	"urca"
#> [349]	"urlchecker"	"usethis"	"utf8"
#> [352]	"uuid"	"V8"	"vctrs"
#> [355]	"viridisLite"	"vroom"	"waldo"
#> [358]	"warp"	"whisker"	"whoami"
#> [361]	"withr"	"workflows"	"workflowsets"
#> [364]	"xfun"	"xml2"	"xmlparsedata"
#> [367]	"xopen"	"xtable"	"xts"
#> [370]	"yaml"	"yardstick"	"zip"
#> [373]	"zoo"	"base"	"boot"
#> [376]	"class"	"cluster"	"codetools"
#> [379]	"compiler"	"datasets"	"foreign"

```
#> [382] "graphics"      "grDevices"     "grid"
#> [385] "KernSmooth"    "lattice"       "MASS"
#> [388] "Matrix"        "methods"       "mgcv"
#> [391] "nlme"          "nnet"          "parallel"
#> [394] "rpart"         "spatial"       "splines"
#> [397] "stats"         "stats4"        "survival"
#> [400] "tcltk"         "tools"         "utils"
```

## References

R Core Team. (2025). *R: A language and environment for statistical computing*. R Foundation for Statistical Computing. Vienna, Austria. <https://www.R-project.org/>