

# Session Info

Ivan Jacob Agaloos Pesigan

## Session

```
sessionInfo()
```

```
#> R version 4.4.2 (2024-10-31)
#> Platform: x86_64-pc-linux-gnu
#> Running under: Ubuntu 24.04.1 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_0.0.18
#>
#> loaded via a namespace (and not attached):
#>  [1] backports_1.5.0  R6_2.5.1         lubridate_1.9.4  xfun_0.50
#>  [5] magrittr_2.0.3   glue_1.8.0        stringr_1.5.1    knitr_1.49
#>  [9] timechange_0.3.0 generics_0.1.3    lifecycle_1.0.4  xml2_1.3.6
#> [13] cli_3.6.3.9002  bibtex_0.5.1      compiler_4.4.2   highr_0.11
#> [17] rprojroot_2.0.4  plyr_1.8.9        httr_1.4.7       tools_4.4.2
#> [21] evaluate_1.0.3   Rcpp_1.0.14       RefManageR_1.4.0 rlang_1.1.5
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#> [25] jsonlite_1.8.9   stringi_1.8.4
```

## Packages

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

```
#> [1] "bootStateSpace" "bslib" "openssl"
#> [4] "purrr" "rProject" "sessioninfo"
#> [7] "V8" "zip" "abind"
#> [10] "Amelia" "arm" "arrow"
#> [13] "ash" "AsioHeaders" "askpass"
#> [16] "assertthat" "backports" "base64enc"
#> [19] "betaDelta" "betaMC" "betaNB"
#> [22] "betaSandwich" "BH" "bibtex"
#> [25] "BiocManager" "bit" "bit64"
#> [28] "bitops" "blob" "bootStateSpace"
#> [31] "brew" "brio" "broom"
#> [34] "bslib" "cachem" "callr"
#> [37] "car" "caracas" "carData"
#> [40] "cellranger" "cfr" "checkmate"
#> [43] "cli" "clipr" "clock"
#> [46] "clusterGeneration" "coda" "c0de"
#> [49] "collections" "colorspace" "commonmark"
#> [52] "conflicted" "corpcor" "covr"
#> [55] "cowplot" "cpp11" "crayon"
#> [58] "credentials" "crosstalk" "cTMed"
#> [61] "ctsem" "curl" "cyclocomp"
#> [64] "data.table" "DBI" "dbplyr"
#> [67] "Deriv" "desc" "deSolve"
#> [70] "devtools" "diagram" "dials"
#> [73] "DiceDesign" "diffobj" "digest"
#> [76] "distributional" "distribro" "doBy"
#> [79] "docopt" "doFuture" "downlit"
#> [82] "dplyr" "DT" "dtplyr"
#> [85] "duckdb" "dynr" "dynUtils"
#> [88] "ellipse" "ellipsis" "evaluate"
#> [91] "expm" "fans" "farver"
#> [94] "fastDummies" "fastmap" "fclust"
#> [97] "fda" "fdrtool" "fds"
#> [100] "fitCTVARMx" "fitDTVARMx" "FNN"
#> [103] "fontawesome" "forcats" "foreach"
#> [106] "Formula" "fs" "fst"
#> [109] "fstcore" "furry" "future"
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#> [112] "future.apply"      "gargle"             "generics"
#> [115] "gert"              "ggplot2"            "ggrepel"
#> [118] "gh"                "gitcreds"           "glasso"
#> [121] "glmnet"            "globals"            "glue"
#> [124] "googledrive"       "googlesheets4"      "gower"
#> [127] "GPArotation"       "GPfit"              "graphicalVAR"
#> [130] "gridExtra"         "gsubfn"             "gtable"
#> [133] "gtools"            "hardhat"            "haven"
#> [136] "hdrcde"            "here"               "highr"
#> [139] "Hmisc"             "hms"                "htmlTable"
#> [142] "htmltools"         "htmlwidgets"        "httpgd"
#> [145] "httpuv"            "httr"               "httr2"
#> [148] "ids"               "ifaTools"           "igraph"
#> [151] "infer"             "ini"                "inline"
#> [154] "ipred"             "isoband"            "iterators"
#> [157] "jomo"              "jpeg"               "jquerylib"
#> [160] "jsonlite"          "jsonvalidate"        "kernlab"
#> [163] "knitr"             "ks"                 "labeling"
#> [166] "Lahman"            "languageserver"     "later"
#> [169] "latex2exp"         "lava"               "lavaan"
#> [172] "lazyeval"          "lhs"                "lifecycle"
#> [175] "lintr"             "listenv"            "littler"
#> [178] "lme4"              "locfit"             "longMI"
#> [181] "loo"               "lubridate"          "magick"
#> [184] "magrittr"          "markdown"           "MatrixModels"
#> [187] "matrixStats"       "mclust"              "memoise"
#> [190] "metaSEM"           "metaVAR"            "mice"
#> [193] "microbenchmark"   "mime"               "miniUI"
#> [196] "minqa"             "mitml"              "mize"
#> [199] "mlVAR"             "mnormt"             "modeldata"
#> [202] "modelenv"          "modelr"             "MplusAutomation"
#> [205] "multicool"         "munsell"            "mvtnorm"
#> [208] "nloptr"            "numDeriv"           "nycflights13"
#> [211] "OpenMx"            "openssl"            "ordinal"
#> [214] "pan"               "pander"             "parallelly"
#> [217] "parsnip"           "patchwork"          "pbapply"
#> [220] "pbivnorm"          "pbkrtest"           "pcaPP"
#> [223] "pdftools"          "pillar"             "pkgbuild"
#> [226] "pkgconfig"         "pkgdown"            "pkgload"
#> [229] "plogr"             "plyr"               "png"
#> [232] "posterior"         "pracma"             "praise"
#> [235] "prettyunits"       "printr"             "processx"
#> [238] "prodlim"           "profvis"            "progress"
#> [241] "progressr"         "promises"           "proto"
#> [244] "ps"                "psych"              "purrr"

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

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```
#> [382] "mgcv"          "nlme"          "nnet"
#> [385] "parallel"      "rpart"         "spatial"
#> [388] "splines"       "stats"         "stats4"
#> [391] "survival"      "tcltk"         "tools"
#> [394] "utils"
```

## 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/>