Session Info

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Session

```
sessionInfo()
#> R version 4.5.1 (2025-06-13)
#> Platform: x86_64-pc-linux-gnu
#> Running under: Ubuntu 24.04.3 LTS
#>
#> Matrix products: default
          / usr/lib/x86\_64-linux-gnu/openblas-pthread/libblas.so.3
#> LAPACK: /usr/lib/x86_64-linux-gnu/openblas-pthread/libopenblasp-r0.3.26.so; LAPACK version 3.12
#>
#> 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_0.0.21
#>
#> loaded via a namespace (and not attached):
#> [1] backports_1.5.0 R6_2.6.1
                                       lubridate_1.9.4 xfun_0.53
#> [5] magrittr_2.0.4 glue_1.8.0
                                       stringr_1.5.2 knitr_1.50
#> [9] timechange_0.3.0 generics_0.1.4
                                       lifecycle_1.0.4 xml2_1.4.0
#> [13] cli_3.6.5.9000 bibtex_0.5.1
                                       compiler_4.5.1 highr_0.11
#> [17] rprojroot_2.1.1 plyr_1.8.9
                                       httr_1.4.7
                                                       tools_4.5.1
#> [21] evaluate_1.0.5 Rcpp_1.1.0
                                       RefManageR_1.4.0 rlang_1.1.6
#> [25] jsonlite_2.0.0 stringi_1.8.7
```

Packages

```
unname(installed.packages()[, 1])
     [1] "cTMed"
                              "simStateSpace"
#>
                                                   "abind"
    [4] "Amelia"
                              "arm"
                                                   "arrow"
    [7] "ash"
                              "askpass"
                                                   "assertthat"
#>
    [10] "backports"
                              "base64enc"
                                                   "betaDelta"
                                                   "betaSandwich"
    [13] "betaMC"
                              "betaNB"
    [16] "BH"
                              "bibtex"
                                                   "BiocManager"
```

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

#> [100] "furrr"	"future"	"future.apply"
#> [103] "gargle"	"generics"	"gert"
#> [106] "ggplot2"	"ggrepel"	"gh"
#> [109] "gitcreds"	"glasso"	"glmnet"
#> [112] "globals"	"glue"	"googledrive"
#> [115] "googleshe	ets4" "gower"	"GPArotation"
#> [118] "GPfit"	"graphicalVAR"	" "gridExtra"
#> [121] "gsubfn"	"gtable"	"gtools"
#> [124] "hardhat"	"haven"	"hdrcde"
#> [127] "here"	"highr"	"Hmisc"
#> [130] "hms"	"htmlTable"	"htmltools"
#> [133] "htmlwidge	ts" "httpuv"	"httr"
#> [136] "httr2"	"ids"	"ifaTools"
#> [139] "igraph"	"infer"	"ini"
#> [142] "inline"	"ipred"	"isoband"
#> [145] "iterators	"jomo"	"jpeg"
#> [148] "jquerylib	" "jsonlite"	"jsonvalidate"
#> [151] "kernlab"	"knitr"	"ks"
#> [154] "labeling"	"Lahman"	"languageserver"
#> [157] "later"	"latex2exp"	"lava"
#> [160] "lavaan"	"lazyeval"	"lhs"
#> [163] "lifecycle	"lintr"	"listenv"
#> [166] "litedown"	"littler"	"lme4"
#> [169] "locfit"	"longMI"	"loo"
#> [172] "lubridate	" magick"	"magrittr"
#> [175] "markdown"	"MatrixModels"	" "matrixStats"
#> [178] "mclust"	"memoise"	"metaSEM"

#>	[181]	"metaVAR"	"mice"	"microbenchmark"
#>	[184]	"mime"	"miniUI"	"minqa"
#>	[187]	"mitml"	"mize"	"mlVAR"
#>	[190]	"mnormt"	"modeldata"	"modelenv"
#>	[193]	"modelr"	"MplusAutomation"	"multicool"
#>	[196]	"mvtnorm"	"nloptr"	"numDeriv"
#>	[199]	"nycflights13"	"OpenMx"	"openssl"
#>	[202]	"ordinal"	"pan"	"pander"
#>	[205]	"parallelly"	"parsnip"	"patchwork"
#>	[208]	"pbapply"	"pbivnorm"	"pbkrtest"
#>	[211]	"pcaPP"	"pdftools"	"pillar"
#>	[214]	"pkgbuild"	"pkgconfig"	"pkgdown"
#>	[217]	"pkgload"	"plogr"	"plyr"
#>	[220]	"png"	"posterior"	"pracma"
#>	[223]	"praise"	"prettyunits"	"printr"
#>	[226]	"processx"	"prodlim"	"profvis"
#>	[229]	"progress"	"progressr"	"promises"
#>	[232]	"proto"	"ps"	"psych"
#>	[235]	"purrr"	"qgraph"	"qpdf"
#>	[238]	"quadprog"	"quantreg"	"quarto"
#>	[241]	"QuickJSR"	"R.cache"	"R.methodsS3"
#>	[244]	"R.00"	"R.utils"	"R2jags"
#>	[247]	"R2WinBUGS"	"R6"	"ragg"
#>	[250]	"rainbow"	"rappdirs"	"rbibutils"
#>	[253]	"rcmdcheck"	"RColorBrewer"	"Rcpp"
#>	[256]	"RcppArmadillo"	"RcppEigen"	"RcppGSL"
#>	[259]	"RcppParallel"	"RcppTOML"	"RCurl"

#> [262] "Rdpack"	"readr"	"readx1"
#> [265] "recipes"	"RefManageR"	"reformulas"
#> [268] "rematch"	"rematch2"	"remotes"
#> [271] "reprex"	"reshape2"	"reticulate"
#> [274] "rex"	"rhub"	"rjags"
#> [277] "rlang"	"RMariaDB"	"rmarkdown"
#> [280] "roxygen2"	"rpf"	"RPostgres"
#> [283] "rProject"	"rprojroot"	"rsample"
#> [286] "RSQLite"	"rstan"	"rstantools"
#> [289] "rstudioapi"	"rversions"	"rvest"
#> [292] "Ryacas"	"S7"	"sass"
#> [295] "scales"	"selectr"	"semlbci"
#> [298] "semmcci"	"sessioninfo"	"sfd"
#> [301] "shape"	"shiny"	"simStateSpace"
#> [304] "slider"	"snow"	"snowfall"
<pre>#> [307] "sourcetools"</pre>	"SparseM"	"sparsevctrs"
#> [310] "SQUAREM"	"StanHeaders"	"stringi"
#> [313] "stringr"	"styler"	"symSEM"
#> [316] "sys"	"systemfonts"	"tailor"
#> [319] "tensorA"	"testthat"	"texreg"
#> [322] "textshaping"	"tibble"	"tidymodels"
#> [325] "tidyr"	"tidyselect"	"tidyverse"
#> [328] "timechange"	"timeDate"	"tinytex"
#> [331] "tune"	"tzdb"	"ucminf"
#> [334] "urlchecker"	"usethis"	"utf8"
#> [337] "uuid"	"V8"	"vctrs"
#> [340] "viridisLite"	"vroom"	"waldo"

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