## 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/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:
base
#> other attached packages:
#> [1] rProject_0.0.14
#>
#> loaded via a namespace (and not attached):
                                lubridate_1.9.4 xfun_0.49
#> [1] backports_1.5.0 R6_2.5.1
#> [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
                                  1 compiler_4.4.2 highr_0.11 httr_1.4.7 tools_4.4.
#> [13] cli_3.6.3.9001 bibtex_0.5.1
#> [17] rprojroot_2.0.4 plyr_1.8.9
                                                     tools_4.4.2
#> [21] evaluate_1.0.1 Rcpp_1.0.13-1 RefManageR_1.4.0 rlang_1.1.4
```

## **Packages**

```
unname(installed.packages()[, 1])
#>
     [1] "simStateSpace"
                             "abind"
                                                 "arm"
     [4] "arrow"
                             "ash"
#>
                                                 "AsioHeaders"
     [7] "askpass"
                             "assertthat"
                                                 "backports"
#>
#> [10] "base64enc"
                             "betaDelta"
                                                 "betaMC"
                             "betaSandwich"
                                                 "BH"
#> [13] "betaNB"
#> [16] "bibtex"
                                                 "bit"
                             "BiocManager"
                                                 "blob"
#> [19] "bit64"
                             "bitops"
#> [22] "brew"
                             "brio"
                                                 "broom"
#> [25] "bslib"
                             "cachem"
                                                 "callr"
#> [28] "car"
                             "caracas"
                                                 "carData"
                             "cffr"
                                                 "checkmate"
#> [31] "cellranger"
                             "clipr"
#> [34] "cli"
                                                 "clock"
#> [37] "clusterGeneration" "coda"
                                                 "cOde"
#> [40] "collections"
                             "colorspace"
                                                 "commonmark"
#> [43] "conflicted"
                             "corpcor"
                                                 "covr"
#> [46] "cowplot"
                             "cpp11"
                                                 "crayon"
#> [49] "credentials"
                             "crosstalk"
                                                 "cTMed"
#> [52] "ctsem"
                             "curl"
                                                 "cyclocomp"
#> [55] "data.table"
                             "DBI"
                                                 "dbplyr"
#> [58] "Deriv"
                             "desc"
                                                 "deSolve"
#> [61] "devtools"
                             "diagram"
                                                 "dials"
#> [64] "DiceDesign"
                                                 "digest"
                             "diffobj"
                                                 "doBy"
#> [67] "distributional"
                             "distro"
#> [70] "docopt"
                             "doFuture"
                                                 "downlit"
#> [73] "dplyr"
                             "DT"
                                                 "dtplyr"
#> [76] "dynr"
                             "dynUtils"
                                                 "ellipse"
#> [79] "ellipsis"
                             "evaluate"
                                                 "expm"
                                                 "fastDummies"
#> [82] "fansi"
                             "farver"
                                                 "fda"
#> [85] "fastmap"
                             "fclust"
#> [88] "fdrtool"
                             "fds"
                                                 "fitCTVARMx"
#> [91] "fitDTVARMx"
                             "FNN"
                                                 "fontawesome"
#> [94] "forcats"
                             "foreach"
                                                 "Formula"
#> [97] "fs"
                             "fst"
                                                 "fstcore"
#> [100] "furrr"
                                                 "future.apply"
                             "future"
#> [103] "gargle"
                             "generics"
                                                 "gert"
#> [106] "ggplot2"
                             "ggrepel"
                                                 "gh"
#> [109] "gitcreds"
                                                 "glmnet"
                             "glasso"
```

```
"glue"
#> [112] "globals"
                                                    "googledrive"
#> [115] "googlesheets4"
                                                    "GPArotation"
                              "gower"
#> [118] "GPfit"
                               "graphicalVAR"
                                                    "gridExtra"
                                                    "gtools"
#> [121] "gsubfn"
                               "gtable"
#> [124] "hardhat"
                              "haven"
                                                    "hdrcde"
#> [127] "here"
                              "highr"
                                                    "Hmisc"
#> [130] "hms"
                               "htmlTable"
                                                    "htmltools"
#> [133] "htmlwidgets"
                              "httpgd"
                                                    "httpuv"
                              "httr2"
#> [136] "httr"
                                                    "ids"
#> [139] "ifaTools"
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                                                    "infer"
#> [142] "ini"
                               "inline"
                                                    "ipred"
#> [145] "isoband"
                                                    "jomo"
                               "iterators"
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                                                    "jsonlite"
                               "jquerylib"
#> [151] "jsonvalidate"
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                                                    "knitr"
#> [154] "ks"
                               "labeling"
                                                    "Lahman"
#> [157] "languageserver"
                               "later"
                                                    "latex2exp"
#> [160] "lava"
                              "lavaan"
                                                    "lazyeval"
#> [163] "lhs"
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                                                    "lintr"
#> [166] "listenv"
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                              "littler"
#> [169] "locfit"
                              "longMI"
                                                    "loo"
#> [172] "lubridate"
                              "magick"
                                                    "magrittr"
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                                                    "matrixStats"
#> [178] "mclust"
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                                                    "metaSEM"
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                              "miniUI"
                                                    "minga"
#> [187] "mitml"
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                                                    "mlVAR"
                                                    "modelenv"
#> [190] "mnormt"
                               "modeldata"
#> [193] "modelr"
                              "MplusAutomation"
                                                    "multicool"
#> [196] "munsell"
                              "mvtnorm"
                                                    "nloptr"
#> [199] "numDeriv"
                              "nycflights13"
                                                    "OpenMx"
#> [202] "openss1"
                               "ordinal"
                                                    "pan"
#> [205] "pander"
                               "parallelly"
                                                    "parsnip"
#> [208] "patchwork"
                                                    "pbivnorm"
                               "pbapply"
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                               "pcaPP"
                                                    "pdftools"
                               "pkgbuild"
#> [214] "pillar"
                                                    "pkgconfig"
#> [217] "pkgdown"
                              "pkgload"
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#> [220] "plyr"
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                                                    "prettyunits"
#> [226] "printr"
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                                                    "prodlim"
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#> [235] "psych"
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                                                    "qgraph"
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                              "quadprog"
                                                    "quantreg"
                              "QuickJSR"
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#> [241] "quarto"
#> [244] "R.methodsS3"
                              "R.oo"
                                                    "R.utils"
```

```
#> [247] "R6"
                                                    "rainbow"
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#> [256] "RcppEigen"
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                              "yardstick"
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                                                   "compiler"
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                               "mgcv"
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                              "splines"
                                                   "stats"
#> [379] "stats4"
                              "survival"
                                                    "tcltk"
```

#> [382] "tools" "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/