## Session Info

#### Ivan Jacob Agaloos Pesigan

### Session

```
sessionInfo()
#> R version 4.3.0 (2023-04-21)
#> Platform: x86_64-pc-linux-gnu (64-bit)
#> Running under: Ubuntu 20.04.6 LTS
#>
#> Matrix products: default
          /usr/lib/x86_64-linux-gnu/atlas/libblas.so.3.10.3
#> LAPACK: /usr/lib/x86_64-linux-gnu/atlas/liblapack.so.3.10.3; LAPACK version 3.9.0
#> locale:
#> [1] LC_CTYPE=C.UTF-8
                         LC_NUMERIC=C
                                               LC_TIME=C.UTF-8
  [4] LC_COLLATE=C.UTF-8
                            LC_MONETARY=C.UTF-8 LC_MESSAGES=C.UTF-8
#> [7] LC_PAPER=C.UTF-8
                            LC_NAME=C
                                                    LC_ADDRESS=C
#> [10] LC_TELEPHONE=C
                            LC_MEASUREMENT=C.UTF-8 LC_IDENTIFICATION=C
#>
#> time zone: UTC
#> tzcode source: system (glibc)
```

```
#> attached base packages:
#> [1] stats graphics grDevices utils datasets methods base

#>
#> loaded via a namespace (and not attached):
#> [1] compiler_4.3.0 rprojroot_2.0.3 tools_4.3.0

#> [4] rProject_0.0.0.9000 highr_0.10 knitr_1.43
#> [7] xfun_0.39 evaluate_0.21
```

# **Packages**

```
unname(installed.packages()[, 1])
     [1] "askpass"
                                  "assertthat"
                                                          "backports"
#>
    [4] "base64enc"
                                  "betaDelta"
                                                          "betaMC"
     [7] "betaNB"
                                 "betaSandwich"
                                                          "bit"
    [10] "bit64"
                                  "blob"
                                                          "brew"
    [13] "brio"
                                                          "bslib"
                                  "broom"
   [16] "cachem"
                                  "callr"
                                                          "cellranger"
    [19] "cffr"
                                  "cli"
                                                          "clipr"
                                                          "conflicted"
    [22] "colorspace"
                                  "commonmark"
    [25] "covr"
                                  "cpp11"
                                                          "crayon"
#> [28] "credentials"
                                  "curl"
                                                          "cyclocomp"
   [31] "data.table"
                                  "DBI"
                                                          "dbplyr"
   [34] "desc"
                                  "devtools"
                                                          "diffobj"
   [37] "digest"
                                  "distro"
                                                          "downlit"
#>
   [40] "dplyr"
                                  "dtplyr"
                                                          "dynamicalSystemsNotes"
#>
#> [43] "ellipsis"
                                  "evaluate"
                                                          "fansi"
#> [46] "farver"
                                  "fastmap"
                                                          "fontawesome"
```

#>	[49]	"forcats"	"foreach"	"fs"
#>	[52]	"gargle"	"generics"	"gert"
#>	[55]	"ggplot2"	"gh"	"gitcreds"
#>	[58]	"glmnet"	"glue"	"googledrive"
#>	[61]	"googlesheets4"	"gtable"	"haven"
#>	[64]	"highr"	"hms"	"htmltools"
#>	[67]	"htmlwidgets"	"httpuv"	"httr"
#>	[70]	"httr2"	"ids"	"ini"
#>	[73]	"isoband"	"iterators"	"jomo"
#>	[76]	"jquerylib"	"jsonlite"	"jsonvalidate"
#>	[79]	"knitr"	"labeling"	"later"
#>	[82]	"lavaan"	"lazyeval"	"lifecycle"
#>	[85]	"lintr"	"lme4"	"lubridate"
#>	[88]	"magick"	"magrittr"	"memoise"
#>	[91]	"mice"	"microbenchmark"	"mime"
#> #>		"mice" "miniUI"	"microbenchmark" "minqa"	"mime" "mitml"
	[94]			
#> #>	[94] [97]	"miniUI"	"minqa"	"mitml"
#> #> #>	[94] [97] [100]	"miniUI" "mnormt"	"minqa" "modelr"	"mitml" "munsell"
#> #> #>	[94] [97] [100] [103]	"miniUI" "mnormt" "nloptr"	"minqa" "modelr" "numDeriv"	"mitml" "munsell" "openssl"
#> #> #> #>	[94] [97] [100] [103] [106]	"miniUI" "mnormt" "nloptr" "ordinal"	"minqa" "modelr" "numDeriv" "pan"	"mitml" "munsell" "openssl" "parsedate"
#> #> #> #> #>	[94] [97] [100] [103] [106] [109]	"miniUI" "mnormt" "nloptr" "ordinal" "pbivnorm"	<pre>"minqa" "modelr" "numDeriv" "pan" "pdftools"</pre>	<pre>"mitml" "munsell" "openssl" "parsedate" "pillar"</pre>
#> #> #> #> #>	[94] [97] [100] [103] [106] [109] [112]	"miniUI"  "mnormt"  "nloptr"  "ordinal"  "pbivnorm"  "pkgbuild"	<pre>"minqa" "modelr" "numDeriv" "pan" "pdftools" "pkgconfig"</pre>	<pre>"mitml" "munsell" "openssl" "parsedate" "pillar" "pkgdown"</pre>
#> #> #> #> #> #>	[94] [97] [100] [103] [106] [109] [112] [115]	"miniUI"  "mnormt"  "nloptr"  "ordinal"  "pbivnorm"  "pkgbuild"  "pkgload"	<pre>"minqa" "modelr" "numDeriv" "pan" "pdftools" "pkgconfig" "praise"</pre>	<pre>"mitml" "munsell" "openssl" "parsedate" "pillar" "pkgdown" "prettyunits"</pre>
#> #> #> #> #> #> #>	[94] [97] [100] [103] [106] [109] [112] [115] [118]	"miniUI"  "mnormt"  "nloptr"  "ordinal"  "pbivnorm"  "pkgbuild"  "pkgload"  "printr"	<pre>"minqa" "modelr" "numDeriv" "pan" "pdftools" "pkgconfig" "praise" "processx"</pre>	<pre>"mitml" "munsell" "openssl" "parsedate" "pillar" "pkgdown" "prettyunits" "profvis"</pre>
#> #> #> #> #> #> #>	[94] [97] [100] [103] [106] [109] [112] [115] [118]	"miniUI"  "mnormt"  "nloptr"  "ordinal"  "pbivnorm"  "pkgbuild"  "pkgload"  "printr"  "progress"	"minqa" "modelr" "numDeriv" "pan" "pdftools" "pkgconfig" "praise" "processx" "promises"	"mitml"  "munsell"  "openssl"  "parsedate"  "pillar"  "pkgdown"  "prettyunits"  "profvis"
#> #> #> #> #> #> #> #> #> #> #>	[94] [97] [100] [103] [106] [109] [112] [115] [118] [121] [124]	"miniUI"  "mnormt"  "nloptr"  "ordinal"  "pbivnorm"  "pkgbuild"  "pkgload"  "printr"  "progress"  "purrr"	<pre>"minqa" "modelr" "numDeriv" "pan" "pdftools" "pkgconfig" "praise" "processx" "promises" "qpdf"</pre>	"mitml"  "munsell"  "openssl"  "parsedate"  "pillar"  "pkgdown"  "prettyunits"  "profvis"  "ps"  "quadprog"

#> [130] "rappdirs"	"rcmdcheck"	"RColorBrewer"
#> [133] "Rcpp"	"RcppEigen"	"readr"
#> [136] "readxl"	"rematch"	"rematch2"
#> [139] "remotes"	"reprex"	"rex"
#> [142] "rhub"	"rlang"	"rmarkdown"
#> [145] "roxygen2"	"rProject"	"rprojroot"
#> [148] "rstudioapi"	"rversions"	"rvest"
#> [151] "sass"	"scales"	"selectr"
#> [154] "semmcci"	"sessioninfo"	"shape"
#> [157] "shiny"	"sourcetools"	"stringi"
#> [160] "stringr"	"styler"	"sys"
#> [163] "systemfonts"	"template"	"templateQuarto"
#> [166] "testthat"	"textshaping"	"tibble"
#> [169] "tidyr"	"tidyselect"	"tidyverse"
54503	11 + 2 + 11	"tzdb"
#> [172] "timechange"	"tinytex"	0200
#> [172] "timechange"  #> [175] "ucminf"	"tinytex" "urlchecker"	"usethis"
	-	
#> [175] "ucminf"	"urlchecker"	"usethis"
#> [175] "ucminf" #> [178] "utf8"	"urlchecker" "uuid"	"usethis" "V8"
#> [175] "ucminf"  #> [178] "utf8"  #> [181] "vctrs"	"urlchecker" "uuid" "viridisLite"	"usethis" "V8" "vroom"
<pre>#&gt; [175] "ucminf"  #&gt; [178] "utf8"  #&gt; [181] "vctrs"  #&gt; [184] "waldo"</pre>	"urlchecker" "uuid" "viridisLite" "whisker"	"usethis" "V8" "vroom" "whoami"
<pre>#&gt; [175] "ucminf"  #&gt; [178] "utf8"  #&gt; [181] "vctrs"  #&gt; [184] "waldo"  #&gt; [187] "withr"</pre>	"urlchecker" "uuid" "viridisLite" "whisker" "xfun"	"usethis" "V8" "vroom" "whoami" "xm12"
<pre>#&gt; [175] "ucminf"  #&gt; [178] "utf8"  #&gt; [181] "vctrs"  #&gt; [184] "waldo"  #&gt; [187] "withr"  #&gt; [190] "xmlparsedata"</pre>	"urlchecker"  "uuid"  "viridisLite"  "whisker"  "xfun"  "xopen"	"usethis" "V8" "vroom" "whoami" "xm12" "xtable"
<pre>#&gt; [175] "ucminf"  #&gt; [178] "utf8"  #&gt; [181] "vctrs"  #&gt; [184] "waldo"  #&gt; [187] "withr"  #&gt; [190] "xmlparsedata"  #&gt; [193] "yaml"</pre>	"urlchecker"  "uuid"  "viridisLite"  "whisker"  "xfun"  "xopen"  "zip"	"usethis"  "V8"  "vroom"  "whoami"  "xm12"  "xtable"  "base"
<pre>#&gt; [175] "ucminf"  #&gt; [178] "utf8"  #&gt; [181] "vctrs"  #&gt; [184] "waldo"  #&gt; [187] "withr"  #&gt; [190] "xmlparsedata"  #&gt; [193] "yaml"  #&gt; [196] "boot"</pre>	"urlchecker"  "uuid"  "viridisLite"  "whisker"  "xfun"  "xopen"  "zip"  "class"	"usethis"  "V8"  "vroom"  "whoami"  "xm12"  "xtable"  "base"  "cluster"
<pre>#&gt; [175] "ucminf"  #&gt; [178] "utf8"  #&gt; [181] "vctrs"  #&gt; [184] "waldo"  #&gt; [187] "withr"  #&gt; [190] "xmlparsedata"  #&gt; [193] "yaml"  #&gt; [196] "boot"  #&gt; [199] "codetools"</pre>	"urlchecker"  "uuid"  "viridisLite"  "whisker"  "xfun"  "xopen"  "zip"  "class"  "compiler"	"usethis"  "V8"  "vroom"  "whoami"  "xm12"  "xtable"  "base"  "cluster"  "datasets"
<pre>#&gt; [175] "ucminf" #&gt; [178] "utf8" #&gt; [181] "vctrs" #&gt; [184] "waldo" #&gt; [187] "withr" #&gt; [190] "xmlparsedata" #&gt; [193] "yaml" #&gt; [196] "boot" #&gt; [199] "codetools" #&gt; [202] "foreign"</pre>	"urlchecker"  "uuid"  "viridisLite"  "whisker"  "xfun"  "xopen"  "zip"  "class"  "compiler"  "graphics"	"usethis"  "V8"  "vroom"  "whoami"  "xml2"  "xtable"  "base"  "cluster"  "datasets"  "grDevices"

```
#> [211] "mgcv" "nlme" "nnet"

#> [214] "parallel" "rpart" "spatial"

#> [217] "splines" "stats" "stats4"

#> [220] "survival" "tcltk" "tools"

#> [223] "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/