



# **APPENDIX R**

## **R SESSION INFORMATION**

GEORGIA STUDENT  
GROWTH MODEL  
FOR ENGLISH  
LANGUAGE  
PROFICIENCY

# COMPUTATIONAL ENVIRONMENT

Since R and R packages are constantly evolving, it is critical to document information such as software package versions (primary and auxiliary) and the computer system platform used in data analyses and report generation. This appendix provides the R and system specifications used in the creation of this report.

## GENERAL R SOFTWARE AND SYSTEM INFORMATION

**Table R1:** Platform Information for R Session

Setting	Value
version	R version 4.2.2 (2022-10-31)
os	macOS Ventura 13.0.1
system	x86_64, darwin17.0
ui	X11
language	(EN)
collate	en_US.UTF-8
ctype	en_US.UTF-8
tz	America/Denver
date	2022-12-08
pandoc	2.19.2 @ /usr/local/bin/ (via rmarkdown)

## ATTACHED AND LOADED R PACKAGES

The following packages (non-base R) were attached:

**Table R2:** Attached R Packages for R Session

Package	Version	Source	Date Installed
cfaDocs	0.0-1.11	Github ( <a href="#">centerforassessment/cfaDocs@acb566d</a> )	11/11/2022
cfaTools	0.0-1.994	Github ( <a href="#">centerforassessment/cfaTools@ee151df</a> )	05/29/2022
data.table	1.14.7	Github ( <a href="#">Rdatatable/data.table@cb8aeff</a> )	11/21/2022
ggplot2	3.4.0	CRAN (R 4.2.1)	11/04/2022
Gmisc	3.0.1	CRAN (R 4.2.0)	11/19/2022
htmlTable	2.4.1	CRAN (R 4.2.0)	07/07/2022
pagedown	0.19.1	Github ( <a href="#">rstudio/pagedown@0b238fd</a> )	10/12/2022
Rcpp	1.0.9	CRAN (R 4.2.0)	07/08/2022
rmarkdown	2.18	CRAN (R 4.2.1)	11/09/2022
SGP	2.0-1.1	Github ( <a href="#">centerforassessment/SGP@d8c59ae</a> )	11/11/2022
stringr	1.5.0	CRAN (R 4.2.0)	12/02/2022
svglite	2.1.0	CRAN (R 4.2.0)	02/03/2022
yamlthis	0.1.7	CRAN (R 4.2.0)	08/05/2022

In addition to the attached packages in the table above, the following packages were loaded via a namespace (and not attached):

**abind** (1.4-5)

**backports** (1.4.1), **base64enc** (0.1-3), **bit** (4.0.5), **bit64** (4.0.5), **blob** (1.2.3), **bookdown** (0.30), **boot** (1.3-28.1), **brio** (1.1.3), **broom** (1.0.1), **bslib** (0.4.1)

**cachem** (1.0.6), **Cairo** (1.6-0), **callr** (3.7.3), **car** (3.1-1), **carData** (3.0-5), **checkmate** (2.1.0), **chromote** (0.1.1), **class** (7.3-20), **cli** (3.4.1), **cluster** (2.1.4), **codetools** (0.2-18), **colorspace** (2.0-3), **crayon** (1.5.2)

**DBI** (1.1.3), **deldir** (1.0-6), **DEoptimR** (1.0-11), **devtools** (2.4.5), **digest** (0.6.30), **doParallel** (1.0.17), **doRNG** (1.8.2), **dplyr** (1.0.10)

**e1071** (1.7-12), **ellipsis** (0.3.2), **equate** (2.0.8), **evaluate** (0.18)

**fansi** (1.0.3), **fastmap** (1.1.0), **foreach** (1.5.2), **foreign** (0.8-83), **forestplot** (3.1.0), **Formula** (1.2-4), **fs** (1.5.2)

**generics** (0.1.3), **glue** (1.6.2), **gridBase** (0.4-7), **gridExtra** (2.3), **gtable** (0.3.1), **gtools** (3.9.4)

**HDInterval** (0.2.4), **highr** (0.9), **Hmisc** (4.7-2), **htmltools** (0.5.3), **htmlwidgets** (1.5.4), **httpuv** (1.6.6), **httr** (1.4.4)

**interp** (1.1-3), **iterators** (1.0.14)

**jpeg** (0.1-10), **jquerylib** (0.1.4), **jsonlite** (1.8.3)

**knitr** (1.41)

**laeken** (0.5.2), **later** (1.3.0), **lattice** (0.20-45), **latticeExtra** (0.6-30), **lazyeval** (0.2.2), **lifecycle** (1.0.3), **lmtest** (0.9-40), **lubridate** (1.9.0)

**magrittr** (2.0.3), **MASS** (7.3-58.1), **Matrix** (1.5-3), **MatrixModels** (0.5-1), **matrixStats** (0.63.0), **memoise** (2.0.1), **mice** (3.15.0), **miceadds** (3.15-21), **mime** (0.12), **miniUI** (0.1.1.1), **mitools** (2.4), **mnormt** (2.1.1), **munsell** (0.5.0)

**nnet** (7.3-18), **numDeriv** (2016.8-1.1)

**pillar** (1.8.1), **pkgbuild** (1.4.0), **pkgconfig** (2.0.3), **pkgload** (1.3.2), **plotly** (4.10.1), **png** (0.1-8), **prettyunits** (1.1.1), **processx** (3.8.0), **profvis** (0.3.7), **promises** (1.2.0.1), **proxy** (0.4-27), **ps** (1.7.2), **purrr** (0.3.5)

**quantreg** (5.94)

**R.methodsS3** (1.8.2), **R.oo** (1.25.0), **R.utils** (2.12.2), **R6** (2.5.1), **randomNames** (1.5-0.0), **ranger** (0.14.1), **RColorBrewer** (1.1-3), **remotes** (2.4.2), **rlang** (1.0.6), **rngtools** (1.5.2), **robustbase** (0.95-0), **rpart** (4.1.19), **RSQLite** (2.2.19), **rstudioapi** (0.14)

**sass** (0.4.4), **scales** (1.2.1), **sessioninfo** (1.2.2), **shiny** (1.7.3), **sn** (2.1.0), **sp** (1.5-1), **SparseM** (1.81), **stringi** (1.7.8), **survival** (3.4-0), **systemfonts** (1.0.4)

**testthat** (3.1.5), **tibble** (3.1.8), **tidyr** (1.2.1), **tidyselect** (1.2.0), **timechange** (0.1.1), **toOrdinal** (1.3-0.0)

**urlchecker** (1.0.1), **usethis** (2.1.6), **utf8** (1.2.2)

**vcd** (1.4-10), **vctrs** (0.5.1), **VIM** (6.2.2), **viridisLite** (0.4.1)

**webshot2** (0.1.0), **websocket** (1.4.1), **withr** (2.5.0)

**xaringan** (0.27), **xfun** (0.35), **XML** (3.99-0.13), **xtable** (1.8-4)

**yaml** (2.3.6)

**zoo** (1.8-11)