Preparing for the workshop

Matteo Fasiolo (matteo.fasiolo@bristol.ac.uk)

Software setup

You will need a working R environment, either R version 3.4.4 or 3.5. You can find it here:

- Windows: https://cran.r-project.org/bin/windows/base/
- MAC: https://cran.r-project.org/bin/macosx/
- Linux: type on terminal sudo apt-get update and then sudo apt-get install r-base

On MAC you will also need to install XQuartz, which you can find at https://www.xquartz.org/.

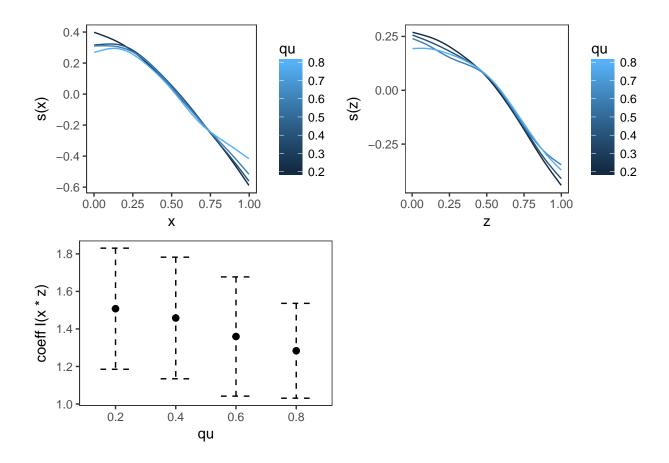
An integrated development environment like Rstudio is useful, you can download it from https://www.rstudio.com/products/rstudio/download2/#download

NB: R version < 3.4.4 might not work, and R version < 3.4 will definitely not work!

Having installed R, please install all the relevant packages before the course. You can do it by running the following code in R:

```
install.packages(c("devtools", "qgam")) # NB qgam must be installed before mgcViz!
library(devtools)
install_github("mfasiolo/mgcViz")
install_github("mfasiolo/mgcFam")
install.packages(c("languageR", "gamair", "e1071"))
```

To test whether all is ok with your installation, run the following code in R, which should produce the image below:



Workshop setup

All the material for the workshop is available at https://github.com/mfasiolo/workshop_JGI_2018. Use the green button on the right of that page to download a .zip file. Extract the .zip file, open the corresponding folder and enter the ''exercises" sub-folder. There you will find two pdf files with the questions.

The solutions are also available in "exercises/Solutions".

Datasets are available in the "exercises/data" folder. In R you can change your working directory using:

```
directory <- "whereverYouAre/exercises"
setwd(directory)</pre>
```

At which point you should be able to load any of the data sets by doing:

```
load(file = "data/oneOfTheDataSets.rda")
```