# A modelling project that provides a tool for grading work in a modelling course while helping to teach modelling itself and the intricacies of course assessment

## The idea

Each student grades each group work, independently (this is key). Collect all that info. Then you get loads of info.

Can evaluate if group that the student belongs to is a useful random effect

Can evaluate if sex and other student specific covariates are relevant

Can get the effect of each group – and that can be used for grading by the teacher

Can evaluate if order of presentation impacts grade

Can see if your grades are better before or after you presented yourself

Etc

## Key aspects:

Data can be used to teach GEEs, GLMMs or possibly even GAMMs to students

Students can’t complain about grades, and on top learn how hard it can be to grade some work (downside, you get the grades based on a presentation alone, not the written report you made – but then again, final grade can be a weighted mean of these two, with weights to define by teacher)

## Extra Outputs (as additional projects):

Can write a paper describing the project

Can develop app to do the grading

Can write an R package to process similar data provided that users provide the data in a suitable format, with functions to provide grades for groups and to visualize the results