

# Introduction to Econometrics

Summer Term 2017 - In-Class Exercise, Lecture 5

We start with analyzing a dataset which has "All-Time Movie Box-Office Revenues and Rotten Tomatoes Reviews". It can be downloaded from <http://www.stat.ufl.edu/~winner/datasets.html>.

- (i) Look at which variables are present. Convert the date variable into season, i.e a factor variable with the following levels: summer, winter, spring and fall. Make sure relevant variables are considered as numeric by R.
- (ii) Regress box office revenue on season and review variables. Check for various possible nonlinearities in each single variable.
- (iii) Check for possible interactions between season and other regressors.
- (iv) Provide the combined results of these regressions in a nice table using the R package *stargazer*.