Forthcoming Classes:

**Linear Models (weeks 2 and 3)**

* Simple Linear Regression
  + Regression Equation
  + Intercept and Slope estimate
* Correlation
  + Formal Testing of Pearson Correlation coefficient.
  + Some Brief Remarks on Spearman and Kendall Correlation
* Formal Tests of Parameter Estimates in Regression Models
  + Formal Testing of regression Estimates (Slope and Intercept).
  + Confidence Intervals for Regression Estimates
  + Confidence Intervals for Fitted Values
  + Prediction Intervals for Fitted Values
* Multiple Linear Regression
  + Multiple Independent Variables
* Model Appraisal and Variable Selection Techniques
  + Akaike’s Information Criterion
  + Coefficients of Determination (R- squared estimates)
  + Backward Elimination
  + Forward Selection
  + Stepwise Selection
* Regression through the Origin
  + Relevance of the Intercept in certain models