Deck 8

* Generalized linear models
  + Can handle heterogeneity in errors
  + Useful for binary and count data
  + Useful for categorical data
* Mixed models
  + Hierarchical datasets work well with these models
* Fixed effects
  + Can be categorical or numerical
* Random effects
  + Are always categorical/grouping variables
* Additive models
  + Smooth out the data, accounting for random outliers
  + Considered descriptive or phenomenological
* Multivariate statistics
  + Consider more than one response variable
* Machine learning
  + Training an algorithm or data structure on data

Deck 9

* Analysis of variance and linear models are all just linear regressions in different forms (group 1 methods)
* Regression equation
* Dummy variables
  + For n-level factors we have to create n-1 dummy variables
* Different interactions
  + Inhibiting
  + Facilitating
  + Synergistic
  + Adjusting