# CSSS/POLS 510 - Maximum Likelihood Estimation

Lab 6. In- and Out-Sample Goodness of Fit, and Cross-Valdiation for Binary Models

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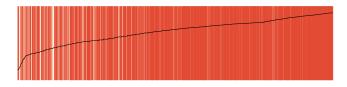
#### Goodness of Fit: Overview

- 1. Likelihood Ratio Test
- 2. Akaike Information Criterion
- 3. Bayesian Information Criterion
- 4. Percent Correctly Predicted
- 5. Separation Plots
- 6. Actual vs. Predicted Plots
- 7. Error vs. Predicted Plots
- 8. ROC Plots

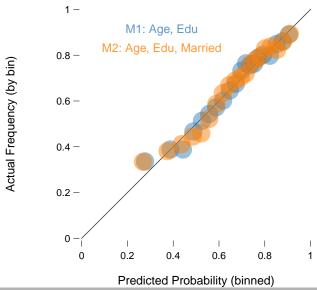
#### simcf and tile

- Most of the GoF above mentioned will be computed using source code programmed by Chris.
  - ➤ You will find those in his website and in the source folder from the compressed materials.
- ▶ It is assumed that you have installed both simcf and tile.

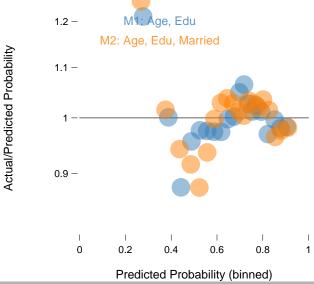
### **Preview: Separation Plots**



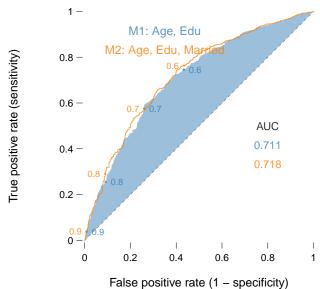
#### Preview: Actual vs. Predicted Plots



#### Preview: Error vs. Predicted Plots



#### **Preview: ROC Plots**



#### **Next lab**

► Ordinal Probit.

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