

Stat 679: Analysis of Discrete Data (Spring/2003)

Class Meetings: Monday and Wednesday 5:30 PM - 6:45 PM

Instructor: Dr. Kung-Jong Lui, BAM 224A

Office Hours: Monday and Wednesday, 3:00 PM - 4:00 PM.

Textbooks: Alan Agresti (2002). *Categorical Data Analysis*, 2nd edn. Wiley, New York.

David W. Hosmer and Stanley Lemeshow (2000). *Applied Logistic Regression*, 2nd edn. Wiley, New York.

Course Grade: Grades are given on the basis of

1. Homework Assignments account for 30%,
 2. Team Project, 20%
- and
3. A Final Exam, 50%

Course Outlines:

This course will cover the fundamental theories of categorical data analysis, discrete distributions, describing the probability structure for contingency tables, inference for contingency tables, including confidence intervals for association parameters, testing independence in two way tables, following-up chi-squared tests, two way tables with ordered classification, and small sample tests of independence, introduction to generalized linear models, logistic regression models, and loglinear models and the strategies of model building and their parameter interpretation.