Week 04
February 27–March 3, 2006

Back to a "normal" week. It might even be a slightly light week, as the students get the entire week to have the last bits of Chapter 2 sink in.

- **Recitation 05: Tuesday, February 28**

    - Follows L06, M Feb 27: Conditional expectation; examples (2.4–2.6)

    - Review how discrete random variables are related to the probabilistic models of Ch. 1 (so it can't seem disconnected) but also that we largely do not need the abstraction of Ω any more.

    - Review the standard discrete random variables. Describe how each arises, and there will probably be enough time to do several mean and variance calculations. (The problems below are rather short. They review basic concepts.)

    - Problem 1: Easy problem. The point is that one can "reduce to a known case" by defining the right geometric random variable.

    - Problem 2: Review how events and random variables are related.

    - Problem 3: Short, cute problem.

- **Recitation 06: Thursday, March 2**

    - Follows L07, W Mar 1: Multiple discrete random variables (2.7)

    - A more problem oriented recitation. All problems are from the text.

    - If you typically get through problems quickly, you might need a problem in reserve. Problem 2.31 is a quick joint PMF problem you could add.

- **Tutorial 03: Thursday, Friday**

    - Problem 1: Very basic joint PMF question.

    - Problem 2: Joint, marginal and conditional PMFs.

    - Problem 3: Conditioning and independence.

- **Problem Set 04: Out 3/01, Due 3/08**

    - Intended to cover Sections 2.4–2.7 plus very lightly on 3.1–3.3