

Power point talks about Bayesian Data Analysis

I have created a few sets of slides that might be of interest. They are ideally loaded up into Powerpoint and watched as a slide show, as they have a modest amount of animation in them. The key reading materials to accompany these talks are given in the slides, but will shortly be listed in a separate "Key Readings" document.

- a) The first talk is a general introduction to Bayesian data analysis focussing on the background and how to do some simple Bayesian statistical tests in JASP (free software). This talk still has a few more slides to add.

Bayesian Data Analysis Part 1.pptx

- b) The second talk concerns Maximum Likelihood Estimation (MLE) and the Bayesian Model comparison of models fitted to data using MLE. This talk has accompanying datasets and notes and a Matlab code to execute analyses. See slides for details. This talk is complete.

Bayesian Data Analysis Part 2.pptx

- c) The third talk concerns Bayesian estimation and its relationship to inverse probability. It includes an analysis of Bays and Price's original (1764) paper where Bayes' Theorem and Bayesian estimation was first proposed. It has a couple of Matlab scripts which allow computations that illustrate the issues. This talk still has a few more slides to add.

Bayesian Data Analysis Part 3.pptx

- d) To be added