

# Chapter 1

## Statistics

### 1.1 Introduction

This lecture is a quick review of basic statistical concepts; probabilities, mean, variance, covariance, correlation, linear regression, probability density functions and significance testing.

### 1.2 Probabilities

#### 1.2.1 Discrete Variables

The table below shows the probability of occurrence  $p(x = x_i)$  of selected letters  $x_i$  in the English alphabet. Table 2 shows the probability of occurrence of selected

$x_i$	$p(x_i)$
a	0.06
e	0.09
j	0.00
q	0.01
t	0.07
x	0.00

Table 1.1: *Probability of letters*

pairs of letters  $x_i$  and  $y_j$  where  $x_i$  is followed by  $y_j$ . This is called the *joint probability*  $p(x = x_i, y = y_j)$ . If we fix  $x$  to, say  $x_i$  then the probability of  $y$  taking on a particular value, say  $y_j$ , is given by the *conditional probability*

$$p(y = y_j | x = x_i) = \frac{p(x = x_i, y = y_j)}{p(x = x_i)} \quad (1.1)$$

# Mathematical Statistics Iii Lecture Notes

**SA Adler**



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