## STATISTICS WORKSHOPS

Whilst the workshops use SPSS, the Regression and ANOVA workshops concentrate on the understanding of the topic so would also be useful for those not using SPSS.

### Level 1

**These workshops are aimed at students who have little or no prior knowledge about statistics and are complete beginners to SPSS.**

<table>
<thead>
<tr>
<th>Topic</th>
<th>Information</th>
</tr>
</thead>
</table>
| Getting started with Statistics and SPSS   | This is a computer led workshop for complete beginners to SPSS. The workshop follows a step by step guide to getting started in SPSS with exercises and covers the following topics:  
  - Getting data into SPSS  
  - Choosing the right summary statistics and graphs for your data  
  - Producing summary statistics, tables and graphs  
  - Recoding and creating new variables  

| Introduction to hypothesis testing          | This workshop focuses on the concepts and terminology needed to understand hypothesis testing.  
                                          | The workshop will also cover chi-squared tests and t-tests. |

### Level 2

**These workshops require statistical knowledge. You must have attended Level 1 workshops before signing up to these topics or, have already studied the material elsewhere.  
DO NOT SIGN UP IF YOU ARE A COMPLETE BEGINNER.**

<table>
<thead>
<tr>
<th>Topic</th>
<th>Information</th>
</tr>
</thead>
</table>
| ANOVA in SPSS                               | Analysis of Variance is a statistical test for comparing the means of several independent groups. There are several types of ANOVA but it is important to get to grips with the basics before moving to more complex types of ANOVA. This practical workshop centres around running ANOVA in SPSS and includes:  
  - Which ANOVA to use in which circumstances  
  - Carrying out one and two way ANOVA  
  - Interpretation of the output  
  - Checking assumptions  
  - What to do when the assumptions are not met  

| Correlation and regression in SPSS          | Multiple regression is one of the most commonly used techniques for project analysis. It is important to know how to use and interpret regression correctly. This practical workshop centres around using SPSS to carry out correlation and regression and includes:  
  - When and why correlation or regression are used  
  - Carrying out analysis  
  - Interpretation of the output  
  - Checking assumptions  

| Choosing the right statistical analysis for your project | This workshop covers the steps of choosing the right analysis and introduces the terminology associated with the process. A number of group exercises will be included to aid understanding of the topics. The session includes a brief introduction to each test for those who have not studied them before and the appropriate graphs to use with each test.  
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|