

## **STA 3180 Statistical Modelling: Nonparametric Tests**

1. What is the difference between parametric and nonparametric tests?

Parametric tests assume that the data follows a normal distribution, while nonparametric tests do not make any assumptions about the underlying distribution of the data.

2. What is the Mann-Whitney U test?

The Mann-Whitney U test is a nonparametric test used to compare two independent samples. It is used to determine if there is a statistically significant difference between the two samples.

3. What is the Kruskal-Wallis test?

The Kruskal-Wallis test is a nonparametric test used to compare more than two independent samples. It is used to determine if there is a statistically significant difference between the samples.

4. What is the Wilcoxon signed-rank test?

The Wilcoxon signed-rank test is a nonparametric test used to compare two related samples. It is used to determine if there is a statistically significant difference between the two samples.

5. What is the Friedman test?

The Friedman test is a nonparametric test used to compare more than two related samples. It is used to determine if there is a statistically significant difference between the samples.

6. What is the Spearman's rank correlation coefficient?

The Spearman's rank correlation coefficient is a nonparametric measure of the strength of the relationship between two variables. It is used to determine if there is a statistically significant correlation between the two variables.

7. What is the Kendall's tau coefficient?

The Kendall's tau coefficient is a nonparametric measure of the strength of the relationship between two variables. It is used to determine if there is a statistically significant correlation between the two variables.

8. What is the chi-square test?

The chi-square test is a nonparametric test used to compare two categorical variables. It is used to determine if there is a statistically significant association between the two variables.

9. What is the Kolmogorov-Smirnov test?

The Kolmogorov-Smirnov test is a nonparametric test used to compare two distributions. It is used to determine if there is a statistically significant difference between the two distributions.

10. What is the sign test?

The sign test is a nonparametric test used to compare two related samples. It is used to determine if there is a statistically significant difference between the two samples.