

Chi-Square Tests

PSY2113

Learning Outcomes

- Explain when Chi-square test is appropriate
- Test hypothesis about shape of distribution using chi-square goodness of fit
- Test hypothesis about relationship of variables using chi-square test of independence

Parametric and Nonparametric Statistical Tests

- Hypothesis tests used thus far tested hypotheses about population **parameters**
- **Parametric** tests share several assumptions
 - **Normal** distribution in the population
 - **Homogeneity of variance** in the population
 - **Numerical score** for each individual
- **Nonparametric tests** are needed when the research situation does not conform to the requirements of parametric tests.