

MANN-WHITNEY U TEST

HYPOTHESIS TESTING

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TOPIC OUTLINE

Mann-Whitney U-Test



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Mann-Whitney U test is a nonparametric hypothesis test used to compare two independent samples.

Hypothesis

$$H_o: M_1 = M_2$$

$$H_a: M_1 \neq M_2 \text{ (p-value } \leq \alpha)$$

Assumptions

- Continuous data
- Non-normal data

<u>syntax</u>

```
from scipy import stats
man_stat, p_value = stats.manwhitneyu(
    sample_1 data,
    sample_2 data)
```



LABORATORY

