

GGY 168

Practical Assignment – Hypothesis testing

- (10 points) Using the data that you collected for the assignment on describing data, determine if there is a significant difference in the distance between the tips of the horns between the barchans from Namibia in Peru. Use the student's t-test (assuming unequal variance) and an $\alpha = 0.05$. Report the following values: p-value (two tailed), test statistic, and critical test statistic. Is there a significant difference between the barchans from the two regions?

Solution:

- p-value: 0.0003
- test-statistic: 4.42
- critical test statistic: 2.06
- Conclusion: Significant difference.

- (40 points) Load the image "magaliesberg.1.png" into GeoGebra. Set the bottom left coordinate to (0,0), the bottom right coordinate to (202,27,0), and work in mm. Calculate the slope angle between the northern slopes and the southern slopes of the Magaliesberg between the 1600m and 1400m contour. The line segments have been provided for you. Place these values into a table and perform the student's t-test (use an $\alpha = 0.05$ and assume unequal variance). Report the following values: p-value (two tailed), test statistic, and critical test statistic. Additionally, report the following values: p-value (two tailed), test statistic, and critical test statistic. Is there a significant difference in slope angle between the northern and southern slopes?

Solution:

North Slope Angle	South Slope Angle
20.48	32.77
22.65	31.24
18.58	30.04
16.04	31.60
31.84	34.34
28.61	32.19
27.25	33.90
27.11	33.15
17.94	27.70
12.20	32.34
13.63	33.36
12.60	31.77
12.46	32.06
13.49	32.29
13.28	35.37

Hypothesis Testing Practical Memo

Ying Liu



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