Quiz

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Quiz fecha límite Jul 13, 2022 19:00 CEST

Question #1

1 punto posible (calificable)

We mentioned earlier that p values can be computed as follows:

```
pval <- 1-(pnorm(abs(tval))-pnorm(-abs(tval)))
```

Because of the symmetry of the standard normal distribution, there is a simpler way to calculate the probability that a t-value under the null could have a larger absolute value than $tval$.

Choose the simplified calculation from the following:

- `1-2*pnorm(abs(tval))`
- `1-2*pnorm(-abs(tval))`
- `1-pnorm(-abs(tval))`
- `2*pnorm(-abs(tval))`

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Question #2

1 punto posible (calificable)

If you increase the confidence level, the confidence interval will...

- Stay the same
- Increase
- Decrease
- May increase or decrease, depending on the sample data

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Question #3

1 punto posible (calificable)

If you decrease the sample size, the confidence interval will...

- Stay the same
- Increase
- Decrease
- May increase or decrease due to sampling randomness

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Question #4

1 punto posible (calificable)

Which of the following is a way to decrease Type I errors?

- Decrease the type II errors.
- Use a lower alpha level.
- Perform the study multiple times.
- Decrease the sample size.

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Question #5

2 puntos posibles (calificables)

Fill in both dropdown items before submitting this question. You have 2 attempts.

The null distribution created with permutations will have Seleccione una opción tails compared to the actual null distribution. This is why permutations result in conservative p-values.

However, if there is hidden structure in your data (such that samples are not independent), then permutation tests can result in estimated null distributions that Seleccione una opción the size of tails because the permutations may destroy the existing structure in the original data.

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