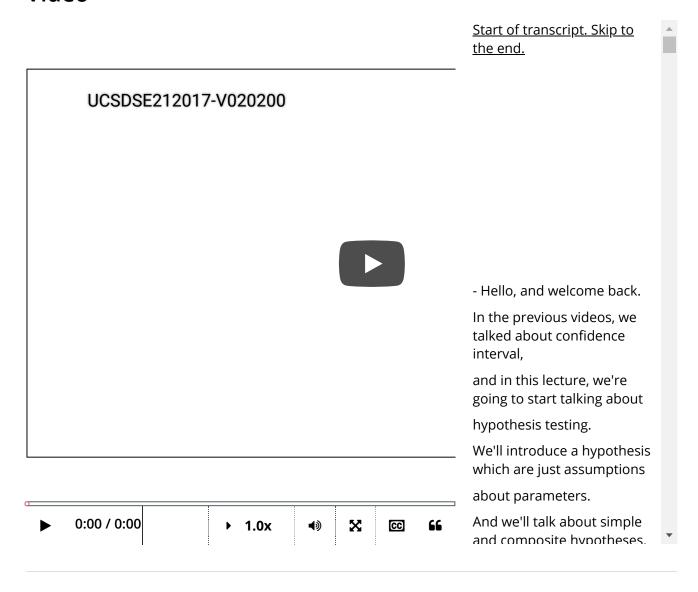


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Hypothesis Testing Video



13.1 Hypotheis testing - Introduction

POLL

If we fail to reject the null hypothesis, does it mean that the null hypothesis is correct?

RESULTS

16%

No wo	iust dan't k	nave enough	avidance to	roject it	0.40/
NO, We	just aon t i	nave enougn	evidence to	reject it.	84%

Yes, it must be correct.

Submit

Results gathered from 141 respondents.

FEEDBACK

No, we just don't have enough evidence to reject it.

1

0/1 point (graded)

The distribution of the test statistic T depends on

 $\,\,\,\,\,\,\,\,\,$ Null hypothesis H_0 , \checkmark

 $\ \ \square$ Alternative hypothesis H_A ,

 \square Obeserved data t,

✓ None of above.

×

Submit

You have used 3 of 3 attempts

1 Answers are displayed within the problem

2

1/1 point (graded)

The null hypothesis says that Z follows normal distribution $\mathcal{N}\left(0,\sigma^{2}\right)$. If the null hypothesis is correct, which of the following is the most unlikely event?

 $igcup Z \in [-\sigma,\sigma]$

- $ullet Z
 otin [-2\sigma, 2\sigma]
 ightharpoonup$
- \circ $Z \geq \sigma$

Explanation

By the 68-95-99.7 Rule:

$$P(Z \in [-\sigma,\sigma]) pprox 68\%$$

$$P(Z
otin [-2\sigma, 2\sigma]) pprox 100 - 95 = 5\%$$

$$P(Z \geq \sigma) pprox (100-68)/2 = 16\%$$

hence the second is smallest.

Submit

You have used 2 of 2 attempts

1 Answers are displayed within the problem

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