

Statistical Consulting @LiRI

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Linguistic Research Infrastructure LiRI



Research Question

Question 1

How many COVID-19 symptoms could Swiss students list spontaneously in June 2020 and 2021?

Model

model <- glmer(number ~ year + faculty + language + year:faculty + year:language</pre>

+ (1|university) + (1|postcode), data=symptoms, family=poisson)

Model Output

Random effects:

Variance Std.Dev. Groups Name postcode (Intercept) 0.001868 0.04322 university (Intercept) 0.000000 0.00000 Number of obs: 2200, groups: postcode, 220; university, 11

Fixed effects:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	0.53013	0.03913	13.548	< 2e-16 ***
year2021	1.00387	0.04798	20.922	< 2e-16 ***

What distrbution of the response variable does the model assume and what type of data is it typically used for?

Question 2

What is the name of the blue shaded terms and what do they measure?

Question 3

Why are the yellow shaded terms written in a different way?

Question 4

What link function does the model use and why is it needed?

Question 5



Were arts students from the Italian speaking part able to list more symptoms than from the German speaking part in 2020?

What exactly do the green shaded numbers represent?

What can we learn from the two orange shaded numbers?

How would you calculate the size of the blue arrow?

So, do I need statistical support?



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l have some idea /	Well done, maybe contact us to discuss or double
I answered 3–6 questions	check your analysis
This is pretty easy / I answered 7–8 questions	Stats wizard, you don't need our help

Credits: Andri Manser