

Re: logistic regression question

Source: <http://sci.tech-archive.net/Archive/sci.stat.edu/2008-02/msg00006.html>

- *From:* mcap <mcam54@xxxxxxxx>
 - *Date:* Fri, 1 Feb 2008 08:17:27 -0800 (PST)
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On Feb 1, 11:03 am, amorphia <spam.onto...@xxxxxxxx> wrote:

Hi all,

I have an experimental design where subjects make a sequence of simple binary choices A or B. I would like to test the hypothesis that initially in the sequence subjects tend to choose A, but this bias degrades to random (or perhaps a bias to B) as the sequence progresses.

Initially I thought that maybe I could do a simple binary logistic regression, with sequence position as the only covariate. But now I think that this is probably invalid, because this would assume that choices at sequence position $t+1$ are independent of choices at sequence t . This assumption is plainly false because the choices are made by the same individuals who may make runs of the same choice.

Can I solve this problem by including individual as a factor in the model perhaps? Or is a more complicated solution necessary?

Thanks!

Ben

You are looking at the choices as the sequence progresses. In binary logistic, you are actually specifying one choice in the sequence (perhaps the last) as your outcome. Is that what you want? It seems that you want to see the influence of early choices on several later choices.

Marc

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