

Re: RM ANOVA and other methods

Source: <http://sci.tech-archive.net/Archive/sci.stat.edu/2008-03/msg00042.html>

- *From:* greg <jsgreg@xxxxxxxxxxxx>
 - *Date:* Mon, 24 Mar 2008 05:31:01 -0700 (PDT)
-

On Mar 14, 1:28 pm, Bruce Weaver <bwea...@xxxxxxxxxxxx> wrote:

On Mar 14, 4:30 am, greg <jsg...@xxxxxxxxxxxx> wrote:

Thanks Bruce,

To be honest, I'm hoping for a linear trend in this study. A quadratic one wouldn't make much sense in this case, and with only 3 time points wouldn't be very convincing either. But I do have another study (not repeated measures, 5 ordinal groups and one continuous variable) where it looks like there might be quadratic trend (confession here to peeking at the data halfway through). It might be very useful for that one, thanks!

I just re-read your first post. I guess "expecting" was the wrong word. It sounds like you *observed* a quadratic trend (result went up, then back down).

--

Bruce Weaver

bwea...@xx/wv/bwhomedir

"When all else fails, RTFM."

It looks like there may be a slight, weakly 'significant' unexpected up-down pattern in one variable. In an ideal world, I'd like a method that would take into account the fact that the groups are ordinal (in terms of time sequence) and I'm sure there are better methods out there.

I'd be happy to say that there was a quadratic relationship if I was convinced there really was one, but I was concerned that by treating the time points as different groups, the ANOVA may be giving me a false positive.

.