

creating interaction term using difference scores in multilevel analysis

Source: <http://sci.tech-archive.net/Archive/sci.stat.math/2006-08/msg01084.html>

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 - *Date:* 30 Aug 2006 05:48:56 -0700
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I am conducting sibling research testing the Actor-Partner Interdependence Model (APIM) using multilevel analysis.

I have a question regarding how I would go about creating the interaction term for my model given my use of difference scores wherein

each sibling rated each parents' behavior (Maternal & Paternal Affection/Control) toward themselves and then rated their parents' behavior toward their sibling. So, each sibling has a differential treatment score for each parent for Affection and Control.

Again, my question is regarding how I would go about creating the appropriate interaction term to include in my model once I have centered my IV's.

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