

**Quest to recreate CLBH variance components from continuous task-wobble, rater smear;  
What variance components mean**

Variance components stated in CLBH, Table 2  
pXtXr anova

p	t	r	pt	pr	tr	'error'
0.250	0.080	0.050	0.350	0.050	0.050	0.350

How to construct process to match these variance components containing main effects and non-zero interactions?

**Continuous-style Formulation for pXtXr design**  
(support [.5, 6.5]; 3task, 2rater)

***Task-Wobble, Rater-Smear***

Task facet: add task main effect

Rater Facet: add rater main effect; raterXtask, raterXperson interactions

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person      triang[.65, 3.7]
task        N(kt , .69) ; kt = [.37, 0, -.37]
rater       N(kr*Npr(1,1) + krt , .59) ;
            kr = [.20, -.20] ; krt = [.17, -.17, 0, 0, -.17, .17]
    
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**6-cat cuts = {1.5, 2.5, 3.5, 4.5, 5.5}**

Formulation produces:

True category distribution [.153, .531, .308, .089, 0, 0]

Observed Category Distribution proportions  
[.28, .32, .26, .11, .025, .003]

pXtXr anova

p	t	r	pt	pr	tr	'error'
0.254	0.077	0.047	0.356	0.060	0.051	0.360