

## PSYC 7014, Week 13 stats lab: Repeated Measures ANOVA

### **WITHIN-SUBJECTS ANOVA**

***Experimental Question: Does praise influence skill acquisition (learning)?***

**Data Description:** Adult (ages 18-30) participants completed a simple throwing task (attempted a throw to get a ball into a small basket) under three within subjects conditions of experimenter feedback / judgment. Participants were either (1) Praised by the experimenter as being above average when got the ball close or in the hole; (2) Criticized as being below average when missed or got it close to the hole; (3) or no feedback/judgment was provided. In order to assess whether feedback influenced skill-acquisition (i.e. the degree to which participants get better over time) Participants completed the throws in 3 sessions with 3 days separating each session.

DV – Counts of misses out of 12 throws where fewer misses equals better performance.

IVs: Feedback and Session

**Based on your findings what can be said about the relative effects of feedback on skill acquisition?**

- Using the provided data set, perform a Within Subjects ANOVA, and any necessary simple effects and post-hoc analyses. If necessary be sure to adjust for family-wise error.
- For your figure generate a line plot conveying information about the means (and requisite distribution) of each Feedback by Session condition. Be sure to make the necessary corrections for your plot (see Morey 2008 paper).

**Write an APA style narrative reporting the results of your analyses.**