**Homework 3 General Feedback**

**Conceptual Questions**

Many of you missed the fact that coffee consumption was mean-centered, and therefore someone who consumes an average amount of coffee has a predicted anxiety score of 4.

For now *R2* is analogous to $η\_{p}^{2}$, but this will cease to be the case as soon as we add additional predictor variables to the model. Just keep this in mind. (Also, take this opportunity to copy that symbol to make it easier to drop into write-ups in the future.)

**Data Analysis**

In a few places, you all made this much harder for yourselves than you needed to:

* For the question about whether salary is reliable greater than $50,000, most of you did a very long brute force calculation. Instead, simply subtract 50,000 from each person’s salary and test if *that’s* different from 0 using lm(). You’ll get the same result.
* For the focal model, many of you also did more of a brute force method, writing out many more lines of code than you needed. All we were looking for was an lm() command and a modelSummary().
* For your variance-based effect size indicator, many of you wrote out the $η\_{p}^{2}$ formula when you could have just used modelEffectSizes().
* Instead of writing out the formulas for making model predictions with hard-coded values (admittedly what I believe is in the key), just use predict() or modelPredictions().

A surprisingly large number of you actually tested whether salaries were reliably higher than $0 (spoiler alert, they are), not $50,000. Look back at your code to make sure it makes sense how this happened. As noted above, the key is to center around 50,000.

**Write-ups**

In general these were good, and largely included less statistical jargon, which I appreciated. It’s worth looking at the key to get an idea of roughly what we were imagining. You’ll also notice I likely made some edits to the way you reported (or failed to report) statistics. You will come to resent what a stickler I am about this. See example:

Students get more annoyed with Mitch every time he corrects the way they report statistics, *F*(1, 17) = 6.53, *p* < .05. Every correction predicts a 0.2 point increase in annoyance on a 7-point Likert scale, *b* = 0.211. Error corrections explain 33% of students’ annoyance with Mitch, $η\_{p}^{2}$ = .332.

Two important notes: always italicize the name of statistics (e.g., *R2*) and only include a “0” before a decimal point if that number *can* exceed one (e.g., $η\_{p}^{2}$ = .31 but *F*(X, XX) = 0.31).

**General**

Pleeeease delete existing question text when you turn in homework, leaving only the question number and your response. Having all those words on the page makes it difficult to grade.