SciX 2020

Research Lab 1:

* Steve gave an intro to Cognitive Science Talk
* Students really enjoyed the demos and seemed very engaged
* Students did almost all of the pre-work and had a good understanding of it
* Everything went according to plan – could run this lecture exactly as is for next year
* It was really great that students already had their unique hypotheses before the Summer School even started (would definitely recommend doing that again)

Research Lab 2:

* Goals: intro to MTurk and Pre-registration
* Posted the experiment up on MTurk – students were most excited to see the data collection process
* Also discussed ethics – students really liked the Milgram experiment
* Need to spend more time on pre-registration (ideally 1 hour)
* Spend less time on the pre-registration activity, maybe have every student answer one question
* We had to finish pre-registration in Lab 3 which was fine but would be great if we could get it done in Lab 2
* With pre-registration, we ended up discussing some stats in a fair bit of detail because it was necessary for the form
* Maybe update the slides to include some stats

Research Lab 3:

* Completed pre-registration and started going through the cognitive papers
* It worked really well having students read papers that were related to their hypotheses and then answering the questions on OpenLearning so other students could see their responses and learn from each other
* Didn’t really use the PowerPoint for this lecture

Research Lab 4:

* Intro to stats
* We finished going through the journal articles
* We went through the stats lecture slides (students already had a good understanding of mean, median, mode, correlations, and IV vs DV so went through that quickly)
* Skipped some of the activities (website and designing own experiment) because it seemed like it would have been too easy and boring for them
* Looked at the raw data together
* Went through how to reverse code in Jamovi together
* Make sure to print out the scales and which items to reverse code so students have access to it
* Didn’t have time to go through my research, but did have time on the final day
* One student was absent on this day, which made it a little bit stressful and difficult to catch her up on everything but we managed

Research Lab 5 & 6:

* Data analysis
* Start analyzing data in jamovi and excel – best to give students the option of what they are more comfortable using
* This was by far the most overwhelming and stressful day
* Every student has a unique hypothesis and it was too much for me to try to help everyone and answer all of their questions
* Would be great if I could get extra help/support on this day next year
* 1 student was falling behind and looking very overwhelmed
* Really important to make sure the code for Tidy Data is ready to go with no errors
  + Give everyone demographics data in case they want to use that for secondary analyses

Research Lab 7 & 8:

* Completing data analysis in a more organized and structured manor
* I would start here for next year for the data analysis and skip 5 and 6
* Had students go through individual data sets and write down what every single variable was
* Demonstrated how to use Jamovi and excel with one dataset while students were following along with their own data
* Spent a majority of the classes letting students go through and analyze their data on their own and I walked around and helped with any questions and/or coding problems
* Had time for 1 of the psychology quiz rounds (manipulation/nudging) the students really enjoyed this. Hopefully next year, data analysis will go more smoothly so will have an entire lab dedicated to the psychology quiz
* I wouldn’t change anything about these two labs
* Idea for next year: sticky notes (green = good and red = help) to avoid everyone shouting out question at the same time
* Would be good to include a slide on reporting stats (T Tests)
* If we are able to get data analysis done in Labs 5 and 6, I’d spend Lab 7 doing the psychology quiz and explaining my research and lab 8 working on their presentation

Research Lab 9:

* Students spent this lecture working on their 5 minute presentations
* I was planning on spending this last lab on memory slides but the students needed to finish their talks
* 1 hour should be enough time to spend on presentation preparation and would be best to do Thursday afternoon
* I think it was really helpful that I sat down with each student and went through their slides one-on-one (too much text, figures too small, too much info for 5 mins)

Next Steps 45 min session:

* Literature review discussion (Psychinfo, ideas for what keywords to search for)
* Spent time talking about my research because didn’t have time earlier in the week
* By the end of the week, we were completely done with data collection and students had finished data analysis for their primary hypotheses, some were still working on secondary analyses
* Students were most excited to see their data and results
* Even when the first day of data collection was overwhelming and stressful, I am most proud that I was able to make a plan and a more structured lesson for the following day that went so much smoother
* My favorite part was watching the students put together their presentations and see how excited they were

**Self Control Reverse Code (0-4 in Jamovi)**

SCALE = ["1: Not at all", "2", "3", "4", "5: Very Much"];

sc\_1 = "I am good at resisting temptation."

sc\_2 = "I have a hard time breaking bad habits." //reversed

sc\_3 = "I am lazy." //reversed

sc\_4 = "I say inappropriate things." //reversed

sc\_5 = 'I do certain things that are bad for me, if they are fun.' //reversed

sc\_6 = 'I refuse things that are bad for me.'

sc\_7 = "I wish I had more self-discipline." //reversed

sc\_8 = "People would say that I have iron self-discipline."

sc\_9 = "Pleasure and fun sometimes keep me from getting work done." //reversed

sc\_10 = "I have trouble concentrating." //reversed

sc\_11 = 'I am able to work effectively toward long-term goals.'

sc\_12 = "Sometimes I can't stop myself from doing something, even if I know it is wrong." //reversed

sc\_13 = "I often act without thinking through all the alternatives." //reversed

**Impulsivity Reverse Code (0-3 in Jamovi)**

SCALE = ["Rarely/Never", "Occasionally", "Often", "Almost Always/Always"];

bis\_q1 = "I plan tasks carefully." //reversed

bis\_q2 = "I do things without thinking."

bis\_q3 = "I make-up my mind quickly."

bis\_q4 = "I am happy-go-lucky."

bis\_q5 = 'I do not "pay attention".'

bis\_q6 = 'I have "racing" thoughts.'

bis\_q7 = "I plan trips well ahead of time." //reversed

bis\_q8 = "I am self-controlled." //reversed

bis\_q9 = "I concentrate easily." //reversed

bis\_q10 = "I save regularly." //reversed

bis\_q11 = 'I "squirm" at plays or lectures.'

bis\_q12 = "I am a careful thinker." //reversed

bis\_q13 = "I plan for job security." //reversed

bis\_q14 = "I say things without thinking."

bis\_q15 = "I like to think about complex problems." //reversed

bis\_q16 = 'I change jobs.'

bis\_q17 = 'I act "on impulse".'

bis\_q18 = "I get easily bored when solving thought problems."

bis\_q19 = 'I act on the spur of the moment.'

bis\_q20 = "I am a steady thinker." //reversed

bis\_q21 = "I change residences."

bis\_q22 = "I buy things on impulse."

bis\_q23 = "I can only think about one problem at a time."

bis\_q24 = "I change hobbies."

bis\_q25 = "I spend or charge more than I earn."

bis\_q26 = 'I often have extraneous thoughts when thinking.'

bis\_q27 = "I am more interested in the present than the future."

bis\_q28 = "I am restless at the theater or lectures."

bis\_q29 = "I like puzzles." //reversed

bis\_q30 = "I am future oriented." //reversed

**Big 5 Reverse Code (0-4 in Jamovi)**

SCALE: ["Disagree strongly", "Disagree a little", "Neither agree nor disagree", "Agree a little", "Agree strongly"];

Big5\_1 = "Worries a lot" //N

Big5\_2 = "Gets nervous easily" //N

Big5\_3 = "Remains calm in tense situations" //N reversed

Big5\_4 = "Is talkative" //E

Big5\_5 = "Is outgoing, sociable" //E

Big5\_6 = "Is reserved" //E reversed

Big5\_7 = "Is original, comes up with new ideas" //O

Big5\_8 = "Values artistic, aesthetic experiences" //O

Big5\_9 = "Has an active imagination" //O

Big5\_10 = "Is sometimes rude to others" //A reversed

Big5\_11 = "Has a forgiving nature" //A

Big5\_12 = "Is considerate and kind to almost everyone" //A

Big5\_13 = "Does a thorough job" //C

Big5\_14 = "Tends to be lazy" //C reversed

Big5\_15 = "Does things efficiently" //C

N = Neuroticism

E = Extraversion

O = Openness

A = Agreeableness

C = Conscientiousness