PSY 392 – Data mining

Homework 6

Due: November 20, 2019, 5:00 pm

Use the statcheck online app (http://statcheck.io/index.php) to check the statistics reported by Sparrow et al (2011.) and Huang et al. (2011)

Hints. A-E should be brief – note the point value for these questions. I mainly want you to demonstrate your ability to use and interpret the statcheck app.

Question 1 (50 points) - Sparrow et al. (2011)

1. Write an explanation of the paper such that a non-psychologist could understand what is going on. (2 points)
2. What was the sample size for each experiment? (1 point)
3. What were the conditions for each experiment? (1 point)
4. In your own words, what was the procedure for each experiment? (1 point)
5. Include a screenshot of the statcheck output. (5 points)
6. Summarize the statcheck output. (20 points)
7. Discuss each inconsistency identified by statcheck. What might have happened? Does the inconsistency affect the conclusions of the paper? (20 points)

Question 2 (50 points) - Huang et al. (2011)

1. Write an explanation of the paper such that a non-psychologist could understand what is going on. (2 points)
2. What was the sample size for each experiment? (1 point)
3. What were the conditions for each experiment? (1 point)
4. In your own words, what was the procedure for each experiment? (1 point)
5. Include a screenshot of the statcheck output. (5 points)
6. Summarize the statcheck output. (20 points)
7. Discuss each inconsistency identified by statcheck. What might have happened? Does the inconsistency affect the conclusions of the paper? (20 points)