

Key Features for Good Quality Data Collection (Quantitative)

1. Data collection tools are **reliable**
 - a. Reliability should be explicitly discussed in the paper
 - b. May be in the form of internal reliability of a scale (should be above between 0.80 and 0.99)
 - c. Could also be test-retest reliability (should be above between 0.80 and 0.99)
2. Data collection tools are **valid**
 - a. Validity should be discussed in the paper
 - b. Face validity - an expert confirming that the questions asked measure what they say they will measure)
 - c. Construct validity - a factor analysis saying that specific groups of questions stick together
 - d. Predictive validity - The scale score correlate with another scale (e.g., positive attitudes correlate with higher grades)
3. Reference to a **previous scale used**
 - a. A clear reference to a previous scale used
 - b. Scale should be current especially if related to technology
 - c. Reliability and validity of scale should be discussed
4. **Questions presented** in paper
 - a. Could be in tables in results section
 - b. Better place in appendices
5. Clear description of **how data was collected**
 - a. Paper, online, verbal?
 - b. Random selection of participants? Sample of convenience?
 - c. Over what time period
 - d. By whom? The researcher/ More than one person?
 - e. Rewards or incentives given
6. **How long** did the data collection process take participants?
 - a. 10-15 minutes for a survey
 - b. 15-30 minutes for an interview/focus group
 - c. Could participant fatigue play a role?

