**Quantitative Assessment**

General Assessment Submission Procedure

**Submission procedure:** Please use size 12 font (Times New Roman, Calibri or Arial) throughout your individual essay and use APA formatting conventions (including for citations, quotes, references, tables and figures) 7th Edition. Your work should be double spaced.

Maximum 1000 words (Excluding SPSS output, tables and references)

This section of the portfolio should demonstrate your knowledge and skills in quantitative statistical analysis. There are 2 components to this section:

**1. Correlation and multiple regression**

**2. Mediation/moderation**

For each section you should:

a) Check dataset for outliers/missing data.

b) Use appropriate graphs to check the distribution (i.e. normality) and to get an idea of any patterns.

c) Carry out the appropriate statistical test.

d) Report the results in APA format, including an appropriate graph/table

e) Include the SPSS output

**1. Correlation and multiple regression**

For this exercise, you will be working with an abridged dataset taken from Hughes, Claire (2016). ***Social and cognitive predictors of success in the transition to school*.** [Data Collection]. Colchester, Essex: UK Data Archive. 10.5255/UKDA-SN-852343.

This dataset has been published in the UK data archive, which is an online resource where researchers can make their data available open access.

See the dataset abstract here: <http://reshare.ukdataservice.ac.uk/852343/>

The abridged dataset includes the following variables:

- Verbal IQ

- Dweck emotion

- Dweck ability

- Simple Theory of Mind

- Complex Theory of Mind

- Executive functions

…plus demographic information (Age and Gender).

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You may wish to look at some of the publications that have come from this dataset: https://gtr.ukri.org/projects?ref=RES-000-23-1371

**What you need to do:**

**- A correlation analysis on all variables**

**- A multiple regression including one outcome variable and three predictor variables.**

**o You can choose which predictor and outcome variables you like - you do not have to use them all.**

**o Use existing literature to justify why you are looking for a relationship between these variables.**

**What to include in the portfolio:**

- **Introduction**: short outline of the theoretical reason you chose these variables, citing existing research.

- **Results**: Report the correlation and regression in APA format, as you would if you were writing a journal article. Include at least one appropriate graph/table.

- **SPSS output**: Attach as a separate file or copy and paste into your portfolio. If you attach as a separate file, please label “Portfolio\_Quantitative\_Regression”

**Reading**

Chapters 8 and 9 in Field, A. (2018) **Discovering statistics using IBM SPSS statistics**. London: Sage.

**2. Mediation/moderation**

For this part of the portfolio you will need to work with the same abridged Hughes (2016) dataset as for the previous exercise.

What you need to do:

- Choose either a mediation or moderation analysis, using the PROCESS tool for SPSS.

- Choose one predictor, one outcome and one moderator/mediator variable.

**What to include in the portfolio:**

- **Introduction**: short outline of the theoretical reason you chose this combination of variables and why you are interested in the mediator/moderator variable, citing existing research.

- **Results**: Report the moderation/mediation in APA format, as you would if you were writing a journal article.

- **SPSS output**: Attach as a separate file or copy and paste into your portfolio. If you attach as a separate file, please label “Portfolio\_Quantitative\_Mediation/Moderation”

**Reading**

Chapter 11 in Field, A. (2018) **Discovering statistics using IBM SPSS statistics**. London: Sage.