**CAD 500**

**Analysis, Significance & Reflection Paper**

This assignment is worth 100 points and will be included in your final paper.

**Formatting details:**You do not need to include a full title page, just name and date submitted. The document should be 12-point serif font (e.g., Times), 1-inch margins, and double spaced. You should use correct APA style headers. The paper should be 2-4 pages, long enough to get you to the 15 pages in your final paper.

You have 3 sections with APA Level 2 Headings in this paper: 1) Analysis, 2) Significance of research and Contributions to the field; 3) Reflections. Please use the headings below and answer the prompts under the heading. This paper should be narrative style so remove all prompts and directions before turning it in.

**Analysis (1 paragraph)**

* The goal of this section is to align your research design with your hypothesis and proposed analysis plan. I have given you the language for how to write it up. Simply change the variables for your study.
* Pick one of the options below based on your research design and fill in the example text with your variables (watch the lecture to understand)
  1. Option 1: examining the relationship between the two variables
     + Correlational design
     + You have two measured variables (e.g., stress and academic outcomes)
     + Can have positive or negative or no relationships (e.g., the higher the stress the lower the academic outcomes)
     + Use Association Claim Verbs
     + **Example Write Up:** I hypothesized stress would impact student’s grades. I think they will have a negative relationship. High stress will be associated with lower final grades. I will analyze the data by correlating the two variables. This analysis will tell me if they are related and in what direction.
  2. Option 2: comparing the differences between two groups
     + Need to have two different groups in your design (e.g., monolinguals and bilingual students)
     + Variables are measured not manipulated
     + Use Association Claim Verbs
     + **Example Write Up:** I hypothesized males would have a higher general tendency to avoid information than females. I predict there may be a significant difference between males and females on the tendency to avoid information where males will avoid information more than females I will analyze the data by comparing the differences between males and females on the measure of information avoidance. This will tell me if there is a difference between the two groups.
  3. Option 3: testing if MANIPULATED variable {{insert causal word: effected/impacted}} the DEPENDENT variable
     + Experimental design with a manipulated independent variable (e.g., students in one classroom receive an intervention while students in another classroom are business as usual).
     + Use Causal Claim Words as you are manipulating the experiment
     + **Example Write Up:** I hypothesized that children in the reading intervention group would improve more on reading skills than children in the control classroom from pre- to post-test. I predict there will be a significant differences on reading skills at post test. Those in the reading intervention will have higher reading skills at the end of the intervention compared to the control group. I will analyze the data by comparing the differences between the reading intervention group and the control group on a test of reading skills at pre-test and at post-test. This will tell me if there is a difference between the two groups at each time point.

**Significance of Research & Contributions to Field (1-2 pages)**

Here are some ideas of topics you can write about in this section. Pick the ones that resonate with you and write about those. This is about the impact your proposed research will have. You can use citations in this section, but do not have to.

* + How might this research inform people of something new or fill a gap in the current/existing research?
  + How might this research make change in the world?
  + How can this research change the lives of children and families for the better?
  + How would you take what you found and disseminate (i.e., share) so as many people as possible would learn about it?
  + How could this research help you improve interventions or strategies?

**Reflections (1-2 pages)**

Here are some ideas of topics you can write about in this section. Pick the ones that resonate with you and write about those. This is about your research and writing process. I would doubt you would have citations.

* + Why did you pick this topic?
  + What did you learn along the way (about research, writing, life)?
  + How are you feeling about research and how it might be something you’ll use in the future?
  + Anything else you want to share about the process or your experience?

**Method**

**Overview of Study and Design** (1/2-1 page)

***Research Question & Hypothesis***

State your research question and hypothesis. Explain how your proposed research will examine this. This should be about three to four sentences. *You wrote about this in your research proposal – copy it over!*

***Overview of Research Design***

Write at least a paragraph that gives an overview of methods and type design. *You wrote about this in last week’s assignment*

* Specify if your design is: Descriptive or correlational, Experimental or Action Research.
* Explain how you know you have the correct design.

**Measurement** (2-3 pages though likely will be longer, including the table from this assignment)

***Operationalizing Variables***

Write a paragraph or two with an overview of your variables. First, explain how you are operationalizing the independent variables (how are you defining the concept, how are you measuring or manipulating?). Second, explain how you are operationalizing the dependent variables (how are you defining the concept, how are you measuring?). *You included all this on the Table last week!*

***Instruments & Measures***

Write a paragraph for each of your measures in each measurement section include: 1) how this helps answer your hypothesis, 2) which variable it measures, 3) is long the measure takes and how many times are your administering it, 4) if it is reliable and valid, how you know and the reliability information if its reported, 5) the citation you found it (Author, Year). *You included most this on the Table last week!* Make sure that each variable on your table is included in this section. Each of your measurements should have its own subheading like how I did below.

**Self-reports and Other-report.** This includes interviews and surveys. Describe these in as much detail as you can and make sure to cite the research you found this. This would include things like the ACEs survey, Family Factors Surveys, Teacher or Parent Behavior reports. Include: 1) how this helps answer your hypothesis, 2) which variable it measures, 3) is long the measure takes and how many times are your administering it, 4) if it is reliable and valid, how you know and the reliability information if its reported, 5) the citation you found it (Author, Year). Write this in narrative form – the bullets below are for guidance.

* Make sure you include the information that lets me know they are for the right ages. For example, if it is a preschool or school-age version.
* Who is doing the reporting (children, parents, teachers)?
* How many items are on the surveys or in the interviews?
* What rating scales will be used?
* List a few example questions.
* Give reliability and validity information. In the case that you are making it up state that this is the first time the measure has been used so it isn’t necessarily valid and that you will establish internal consistency reliability.

**Performance Measures.** Describe these in as much detail as you can and make sure to cite the research you found this. All performance measures should have a citation. These are things like cognitive tasks, standardized academic tests, or self-regulation tasks. Include: 1) how this helps answer your hypothesis, 2) which variable it measures, 3) is long the measure takes and how many times are your administering it, 4) if it is reliable and valid, how you know and the reliability information if its reported, 5) the citation you found it (Author, Year). Write this in narrative form – the bullets below are for guidance.

* How long does this test take?
* What ages is it for?
* Describe what happens in the task
* Give reliability and validity information. Include the test-retest reliability if you are doing this more then one time.

**Observation Measures.** Describe these in as much detail as you can and make sure to cite the research you found this. These are things like observing teacher-child or parent-child observations. Include: 1) how this helps answer your hypothesis, 2) which variable it measures, 3) is long the measure takes and how many times are your administering it, 4) if it is reliable and valid, how you know and the reliability information if its reported, 5) the citation you found it (Author, Year). Write this in narrative form – the bullets below are for guidance.

* How long does this test take?
* Who will be observed?
* Who will do the observing?
* Describe how you will observe (video record, tally sheet, audio record, etc?)
* Give reliability and validity information. In the case that you are making it up state that this is the first time the measure has been used so it isn’t necessarily valid. If you are making it up you must state you will establish inter-rater reliability by using at least two raters (you and your research assistant) and ensure you an 80% accuracy. Also say you will establish test-retest reliability (if you are doing it more than 1 time).

***Measurement Table***

Table 1. Insert your measurement table here use a title. Make sure it is formatted to fit. You might have to insert a section break and select landscape view if this template doesn’t carry over. You can delete the specific information to help it fit as you would have written about that in your paragraphs. Here are some good instructions <https://www.groovypost.com/howto/make-one-page-landscape-in-word>

**Table 1.** Measurement & Instruments Chart

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| --- | --- | --- | --- | --- | --- |
| Variable | Independent or dependent variable | Measured or Manipulated | Type of measure | Validity & Reliability | Citation |
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**Procedures (1-2 pages)**

Take the step by step outline you created last week and write it narrative style explaining what happens in each step. Basically take the bullets and turn them into full sentences. This should be simple if you completed the assignment last week

**Ethics (.5- 1 page)**

Write about what sorts of ethical concerns might you need to consider and how will you mitigate (solve) them? How will you protect vulnerable populations (assent and consent for children)? How will you protect privacy of your participants? What are potential risks to participants, include psychological risks?

**References**

Include the full APA reference list for anything you included in this paper. You will then copy these references into your master reference list for your final paper.