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CS 6795: Cognitive Science
Fall 2025
Self-Directed Term Project - Final Report
Due: Nov 23, 2025

Assignment Submission (.PDF format)*:*
Answer the following prompts in a maximum of 5,000 words (excluding title page and references) in [IEEE format](). Any content beyond 5,000 words will not be considered for a grade. This length is intentionally set expecting that your submission may include diagrams, drawings, pictures, etc. These should be incorporated into the body of the paper.

Assignment Prompt:

Literature Review Track

The final report should be structured like a short research paper, which includes:

- Abstract:
    - A short overview of your entire paper that highlights the important findings and implications. This should be roughly 200 words.
- Introduction:
    - Why is this research question important? Use credible resources (journal articles, conference papers, news outlets, etc.) to provide justification on what makes this research question important.
    - How does this question relate to cognitive science concepts, lessons, or principles?
- Literature Review Design:
    - How did you examine the research question? Describe the process of conducting the literature review, including the refinement process.
    - How did you narrow down which journals, articles, or books to focus on?
    - Did you have to pivot your research at any point to reach a conclusion about the question you investigated?
- Results:
    - What did you find through your study?
    - If your results are qualitative, then provide evidence to explain the results. If you are including statistics, explain what they mean.
- Discussion:
    - What are the implications of your results? Explain why your review was important and what your findings mean for the cognitive science field. Also consider how your findings can be applied to real-world scenarios.
- Conclusion:

- ○ What did you learn from your results? Summarize your key findings and discuss future applications.
- Limitation:
  - ○ What is the limitation of your study? What could future studies explore to improve upon your study?
- Distribution of responsibilities for the semester:
  - ○ Please attach the task list with the tasks planned out for all project milestones. All research tasks should be completed at this stage, but please mark down any that you did not get to finish during the semester. Remember, all of the completed tasks combined must add up to **at least 100 hours per person**.

CogSci Experiment Track

The final report should be structured like a short research paper, which includes:
- Abstract:
  - ○ A short overview of your entire paper that highlights the important findings and implications. This should be roughly 200 words.
- Introduction:
  - ○ Why is this research question important? Use credible resources (journal articles, conference papers, news outlets, etc.) to provide justification on what makes this research question important.
  - ○ How does this question relate to cognitive science concepts, lessons, or principles?
- Experiment Design:
  - ○ How did you examine the research question? Describe the process of conducting the experiment.
  - ○ If applicable, how did you choose your participants?
  - ○ How did you test your hypothesis? What were your independent and dependent variables?
  - ○ If you used human participants in your experiment, please make sure that you have completed the CITI training on Georgia Tech's CITI training page. You must add this certificate as an appendix to your paper so that we are aware you completed the training.
- Results:
  - ○ What did you find through your study?
  - ○ If your results are qualitative, then provide evidence to explain the results. If you are including statistics, explain what they mean.
- Discussion:

- ○ What are the implications of your results? Explain why your experiment was important and what your findings mean for the cognitive science field. Also consider how your findings can be applied to real-world scenarios.
- Conclusion:
    - ○ What did you learn from your results? Summarize your key findings and discuss future applications.
- Limitation:
    - ○ What is the limitation of your study? What could future studies explore to improve upon your study?
- Distribution of responsibilities for the semester:
    - ○ Please attach the task list with the tasks planned out for all project milestones. All research tasks should be completed at this stage, but please mark down any that you did not get to finish during the semester. Remember, all of the completed tasks combined must add up to **at least 100 hours per person**.

Computational Model/Tool Track
The final report should be structured like a short research paper, which includes:
- Abstract:
    - ○ A short overview of your entire paper that highlights the important findings and implications. This should be roughly 200 words.
- Introduction:
    - ○ Why is this research question important? Use credible resources (journal articles, conference papers, news outlets, etc.) to provide justification on what makes this research question important.
    - ○ How does this question relate to cognitive science concepts, lessons, or principles?
- Model/Tool Design:
    - ○ How did you examine the research question? Describe the process in detail, such as what tools you used to create your model/tool and provide justification for how you chose them.
    - ○ How did you map out the cognitive science concepts, lessons, or principles to your model/tool? Where did you derive these concepts, lessons, or principles?
    - ○ You should also describe your model/tool in detail and how you implemented them.
- Results:
    - ○ What did you find through your study?
    - ○ If your results are qualitative, then provide evidence to explain the results. If you are including statistics, explain what they mean.

- Discussion:
  - What are the implications of your results? Explain why your experiment was important and what your findings mean for the cognitive science field. Also consider how your findings can be applied to real-world scenarios.
- Conclusion:
  - What did you learn from your results? Summarize your key findings and discuss future applications.
- Limitation:
  - What is the limitation of your study? What could future studies explore to improve upon your study?
- Distribution of responsibilities for the semester:
  - Please attach the [task list](#) with the tasks planned out for all project milestones. All research tasks should be completed at this stage, but please mark down any that you did not get to finish during the semester. Remember, all of the completed tasks combined must add up to **at least 100 hours per person**.

Project-Specific Questions:
This is intended to be a self-directed project. If you have questions about your topic or general research direction, please post a private message on Ed; but, understand that we might not be able to answer every question. Also, keep in mind that it is the intention of the milestone grading comments to provide topic guidance or actionable feedback.