

## Exam – PSY4320

The paper should discuss a research topic within the field of Cognitive Neuroscience with the focus on current and future uses of the studied methods for enhancing our knowledge of that topic. In the paper, one should describe how to practically employ one or several of the techniques for studying the selected topic, as well as show an understanding of both the strengths and limitations of these techniques and how they might supplement each other.

For instance, a paper on cognitive neuroscience of consciousness could discuss the various experimental approaches to the study of consciousness and whether and how these have benefited from being studied with eye-tracking and/or fMRI. The paper could further discuss the relevance of new approaches that have appeared from the use of the methods, e.g. findings from studies on resting state networks for the study of consciousness.

Finally, an important part of the paper would revolve around possible new approaches to the study of the selected topic. If you already have a topic for your Master's thesis (or any other research question you are interested in), you may focus this part of your paper on how you plan to use one or more of these techniques to answer your research question. You would need to explain why you would use this method, what kind of measures could be chosen for analysis, as well as what type of stimuli.

You can choose to focus on one or several of the techniques you have learned about in the course (fMRI, eyetracking, sMRI, DTI), however it is important that you demonstrate knowledge about the use of the techniques you include in your paper, and about interpretation of their findings. You can of course also include findings from other techniques (for instance, studies of human brain damage, electrophysiological recordings etc.), but the main focus should be on the methods discussed in the course.

## Practicalities

The deadline for proposing a topic is June 4 (by Dag og Olga).

Min-Max length: 2000/3000 words, excluding the reference list. APA, references.

Hospitants from the professional program write 1500 words.

To be handed in by the reception in two copies, deadline: 15.06.12, 2 pm.