



Participant Information Sheet

Study title and Researcher Details.

Ghost imaging protocol with the human visual system

Researchers: Jack Radford, Gao Wang, Daniele Faccio, Vytautas Gradauskas

You are being invited to take part in a research study. Before you decide to take part it is important for you to understand why the research is being done and what it will involve. Please read the following information carefully and discuss it with others if you wish. Ask the researcher/s if there is anything that is not clear or if you would like more information. Take some time to decide whether or not you wish to take part.

Thank you for reading this.

The research aims to achieve imaging with the human eye, using a brain-computer interface device based on EEG and/or fNIRS to measure brain signals when time-modulated patterns are shown on a screen. Using an algorithm combining the projected patterns and the brain activity signals, an image of an object can be computationally retrieved.

Please note, important!

Your name will never be associated to the data sets. Only for the case of fNIRS data collection, you will be asked to create an account on the Kernel company cloud where you will have full control of your data including rendering the data intrinsically anonymous. You can also choose to withdraw any optional additional information from the Kernel Flow cloud account at any time.

Your role will be to wear a brain-imaging headset, while you are gazing at the object illustrated by various patterns. There are three important disclaimers we wish to convey:

1. Stimulus frequencies used in SSVEP research between 5 and 25Hz are more annoying than higher frequency stimuli and visual fatigue can occur. Regular and frequent rest periods will be provided.
2. Flash and pattern reversal stimuli can provoke epileptic seizures, especially in the 15–25 Hz range. **If you suffer from epilepsy, you may not take part in this study.**

Your participation is completely voluntary.

In case of publication, your data will be presented **without a name** so you will not be identified by your data.

Please note that assurances on confidentiality will be strictly adhered to unless evidence of wrongdoing or potential harm is uncovered. In such cases the University may be obliged to contact relevant statutory bodies/agencies.

EPSRC and RAEng fund the research in this study

This project has been considered and approved by the College Research Ethics Committee

To pursue any complaint about the conduct of the research: contact the College of Social Sciences Ethics Officer, Dr Muir Houston, email: Muir.Houston@glasgow.ac.uk

_____End of Participant Information Sheet_____