

Agreement letter for provision of a commissioned research project

11 January 2017

Mr Epstein
Address

Dear Mr Epstein

Re: Hyperscanning EEG Study of Induced Light Experiences

Further to your recent discussions with Ms Karen Samuel we have pleasure in offering to undertake the commissioned research project described below.

Please note this letter and the relationship between the parties is subject to *Goldsmiths' Standard Terms & Conditions for Provision of a Commissioned Research Project*, a copy of which is attached. Capitalised terms used in this letter may be defined therein. In the event of any conflict the terms of this letter shall prevail. We would draw your particular attention to Clauses 5 (Intellectual Property), 6 (Confidentiality); and 7 (Warranty & Limitations on Liability).

Current Description of the research project

TEAM

Principal Investigator (PI)

Professor Joydeep Bhattacharya

Department of Psychology, Goldsmiths, University of London

Co-Investigator (Co-I)

Professor Andreas A Ioannides

Lab for Human Brain Dynamics, AAI Scientific Cultural Services Ltd, Nicosia, Cyprus.

Collaborator

Dr Peter Fenwick

Emeritus Institute of Psychiatry, Kings College University of London

AIM

The principal aim is to explore neural and physiological correlates of meditation induced light experiences in an expert meditator and pupils.

THE RESEARCH DESCRIPTION

The principal participant will be Alain Forget, who is claimed to be capable of transferring light to his pupil. The mental set of the teacher and student is important so a pairwise giving/not giving and receiving/not receiving stimulus protocol will be used. Subjective reports after each session will be collected. The research will primarily involve EEG hyperscanning (i.e. simultaneously monitoring two brains) method. In addition to multivariate EEG signals, additional physiological signals (ECG, GSR etc) will also be monitored. This way we ensure obtaining a rich source of signals generated by both brain and body from the teacher (AF) and his pupil under different instructions. The experimental

protocol will be jointly decided by the PI and the Collaborator, and the data collection will take place at the PI's laboratory at Goldsmiths.

The recorded data will be analysed in a comprehensive fashion. Specifically, the neural signals will be source localized to reveal the brain regions involved during such induced light experiences. Further, we will apply network analysis to uncover the cortical connectomes within interacting teacher-pupil pair. The data analysis will primarily take place at the Co-I's laboratory in Cyprus.

EXPECTED OUTCOME

We anticipate the following principal findings: (i) identification of brain areas and brain network underlying meditation induced light experiences, (ii) characterization of the information transfer between the brains of teacher and pupil, and (iii) revealing the concomitant brain-body interaction. In short we anticipate generating novel insights about this less understood yet potentially important mode of information transfer between humans.

INDICATIVE TIMELINE

Finalization of experimental protocol: February 28, 2017

Development, testing and finalization of EEG hyperscanning facilities: March 31, 2017

Screening and recruitment of participants (pupils and teacher): April 31, 2017

EEG hyperscanning data collection: July 31, 2017

Data preprocessing and quality control: August 31, 2017

EEG and physiological data analysis: November 30, 2017

Write-up of reports, conference presentation(s) and academic article(s): January 31, 2018

Price & payment terms

In consideration of the Goldsmiths undertaking the research project, the Client will pay Goldsmiths the sum of £85,000.

Special Condition

Goldsmiths will undertake to pay the Co-I, Professor Andreas Ioannides in Cyprus an amount of £20000 against suitable invoice for the work on data analysis.

If you are in agreement with the contents of this letter, and the description of the services to be provided, please counter-sign and return a copy of this letter to the address above.

We very much look forward to working with you on this Project.

Yours faithfully

for and on behalf of Goldsmiths' College

Name: Karen Samuel
Tel No (44) 20 7 717-2259

Position: Research Finance Accountant
Goldsmiths College, University of London

Date: 10 January 2016_____

Read and accepted by:

for and behalf of [INSERT CLIENT'S FULL LEGAL NAME OR TITLE]

Name: _____

Position: _____

Date: _____