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**ETHICS APPLICATION FORM**

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| 1. DESCRIBE THE BASIC PURPOSES OF THE PROPOSED RESEARCH.  The purpose of this study is to gain a better understanding of how perceiving brightness effects pupil dilation and pupil constriction. |
| 2. INDICATE WHO IS FUNDING THE RESEARCH (IF COMMERCIALLY FUNDED, ENSURE THAT PARTICIPANTS ARE INFORMED).  This research is self-funded. |
| 3. DESCRIBE THE DESIGN OF YOUR EXPERIMENT (E.G. CONDITIONS, NUMBER OF PARTICIPANTS, PROCEDURE AND EQUIPMENT WHERE APPROPRIATE).  Experiment design  The research will be a within-subjects experiment, every participant will be presented with all 8 stimuli.  Participants  Adults with normal or corrected-to-normal vision and they must not have a colour-vision deficiency.(about N = 15)  Procedure  Participant will read the information sheet and the consent form carefully. They need to sign the consent form voluntarily before the experiment.  Participates will be tested in a dimly lit room, so they will be given sufficient time for their eyes to adapt to the lighting levels of the room.  The experiment consists of two parts. In the first part of the experiment, 8 stimuli will appear in sequence on the screen. Participants will need to rate how bright this image is in the centre on a scale of 1 to 6, for 1 being the brightest and 6 being the less bright.  Participants will be presented with a blank screen, each stimulus will be displayed for 4000 ms, and a blank screen for 4000 ms between each different stimuli. All stimuli and blank screens will contain a fixation cross that participants will be asked to fixate on throughout the experiment. No data will be collected in this part. Each stimulus will be repeated 3 times and this part will take approximately 5 minutes.  In the second part, stimuli will be randomly presented again, however, this time the eye tracker will record the pupil diameter and eye movements and participants will not need to compare the brightness in pairs. Each presentation will be repeated 10 times.  Equipment  Eye tracker Eye-link I |
| 4. DESCRIBE HOW THE PROCEDURES AFFECT THE PARTICIPANTS.  This experiment requires the participants to be highly focused. They should focus on the stimuli and make simple judgements for many times. Moreover, they should try not to blink and keep a fixed posture during the experiment. They may become bored about the task and may feel nervous at the beginning. |
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| 5. STATE WHAT IN YOUR OPINION ARE THE ETHICAL ISSUES INVOLVED IN THE PROPOSAL.  The experiment needs participants to be highly cooperative. If they are not careful during the experiment, their data may not meet the standards and will be discard. |
| 6. SPECIFY THE NATURE OF THE PARTICIPANTS. INDICATE IF THE RESEARCH INVOLVES CHILDREN OR THOSE WITH MENTAL DISABILITIES OR HANDICAP. IF SO, EXPLAIN THE STEPS TAKEN TO OBTAIN PERMISSION FROM L.E.A.s, HEADTEACHERS, PARENTS, ETC. GIVE A BRIEF DESCRIPTION HERE AND FILL IN THE CHILDREN RESEARCH ETHICAL PLAN. THE FORM MUST BE UPLOADED TOGETHER WITH THE CONSENT AND INFORMATION FORMS.  Participates are members of the university of Glasgow, including students. The criteria are that they have normal/corrected-to-normal vision and no colour-vision deficiency.  The research does not involve children or people with mental disabilities or handicaps. |
| 7. STATE IF PAYMENT WILL BE MADE TO SUBJECT.  The experiment lasts about 60 minutes and each participant will be paid £6/hour. |
| 8. DESCRIBE THE PROCEDURES FOR ADVERTISING, FOR RECRUITING PARTICIPANTS, AND FOR OBTAINING CONSENT FROM PARTICIPANTS.  Participants will be recruited through social medias and via the university of Glasgow. Their participation is voluntary.  Every participant will read the information sheet and the consent form carefully. They need to sign the consent form voluntarily before the experiment. |
| 9. STATE WHETHER THE PROPOSAL IS IN ACCORD WITH THE BPS CODE OF CONDUCT OR THE ESRC FRAMEWORK OF RESEARCH ETHICS.  This proposal is in accord with the BPS code of conduct for the following reasons:   1. Participants will be informed of the procedure of the experiment and their participation is voluntary. They have the right to withdraw at any time, without giving any reason. Participants’ anonymity and confidentiality will be maintained in this project. The researcher values the worth of all participants and respect their dignity. 2. The researcher matters of professional ethics and caution in making knowledge claims. 3. The researcher will be responsible use of her knowledge and skills. |
| 10. DESCRIBE HOW THE PARTICIPANTS' ANONYMITY AND CONFIDENTIALITY WILL BE MAINTAINED.   1. The data will be analysed confidentially and using the anonymous participant number. 2. The data will be treated as confidential and kept in secure storage at all times. 3. The data will be retained only for use in future academic research. 4. Other authenticated researchers will have access to this data only if they agree to preserve the confidentiality of the information as requested in this form. |
| 11. DATE ON WHICH PROJECT WILL BEGIN AND END.  The project will start in January 2019 and will end in June 2019. |
| 12. LOCATION AT WHICH THE PROJECT WILL BE CARRIED OUT.  The project will be carried out in laboratory 216, School of Psychology, 62 Hillhead Street, Glasgow. |
| 13. DESCRIBE HOW PARTICIPANTS WILL BE DEBRIEFED AT THE END OF THE EXPERIMENT (THIS MUST INCLUDE THE OPPORTUNITY TO CONTACT THE EXPERIMENTER - OR SUPERVISOR - FOR FEEDBACK ON THE GENERAL OUTCOME OF THE EXPERIMENT).  Participants will be thanked for their participation and informed that the findings of the study will be available on request. If they have any questions, they can contact the researcher via email: [2375085d@student.gla.ac.uk](mailto:2375085d@student.gla.ac.uk) |