



SCHOOL OF OPTOMETRY
UNIVERSITY OF CALIFORNIA, BERKELEY
360 MINOR HALL, #2020
BERKELEY, CALIFORNIA 94720-2020

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Title of Study: Behavioral Consequences of Perceptual Learning

Purpose and Background

My name is Michael Silver, Ph.D. I am a professor in the School of Optometry and the Helen Wills Neuroscience Institute at the University of California, Berkeley. I invite you to take part in a research study. The research deals with visual perception and learning. We are attempting to understand how information is processed in the human brain.

Eligibility Criteria

In order to participate in this study, you must meet the following eligibility criteria:

- 1) Normal or corrected-to-normal vision and normal depth perception. Glasses or contacts are fine.
- 2) 18-39 years of age
- 3) No history of neurological problems
- 4) Taller than 5 feet (in order to look through the viewing apparatus comfortably while seated)

Procedures

If you meet the eligibility criteria and agree to participate, you will receive an explanation of the type of visual perception tasks that you will be administered. You will be asked to perform visual perception tasks for approximately 1.5 hours. These tasks involve discrimination of visual images. You will be seated in a chair, located approximately 5 feet from the monitor. You will be signaled to report what image was present for each trial in a series of trials. You will make these reports by pressing a button on a response box. You will be provided with a break every 5-10 minutes or more frequently if you desire.

There will be a total of one to three sessions, within a period of two months. The number of sessions will depend on the results of the measurements. We will inform you in each session about the number of additional sessions we expect you to participate in. Note that you can stop your participation at any stage, without risk of any penalty. All the sessions will take place in a behavioral testing room in Minor Hall, Room 582.

Risks

There are no known risks associated with these behavioral procedures, which have been used extensively in previous research. The visual stimuli are presented at a comfortable lighting level, and the button press responses require a minimal amount of effort. However, you may feel tired during the testing and after it. While there is a small chance that the confidentiality of the information collected could be compromised, we will take care to prevent this from happening.

Benefits

It is important that you understand there is no benefit to you from the research. At the end of the study, we will explain what we expect to learn from the study. We hope that this knowledge will prove useful in the future diagnosis and treatment of neurological patients.

Subject Initials _____

Compensation

You will be paid at the rate of \$12 per hour for your participation. A check for the total amount of compensation will be given to you at the end of the study. In the event you do not complete the study, you will be compensated at \$12 per hour for the time you spent participating in the study.

Confidentiality

If you decide not to enter the study, all personal information will be immediately destroyed, including this consent form. All of the information obtained during the study will be handled as confidentially as possible, and only a code will be used to identify your results. If you elect to participate, all personal information and results of performance on cognitive tasks will be safeguarded so that your identity is not made public. Written materials are stored within locked cabinets, and each subject's information is coded by a unique combination of letters and numbers. The data will be presented in tables in peer-reviewed publications, and individual subjects will never be identified in any presentation of the data. All data are stored on a computer server that is maintained behind a privatized network and secured by a firewall. In addition, data are archived on DVDs that are stored in a locked cabinet.

When the research is completed, I may save the recorded data for use in future research done by myself or others. I will retain this study information indefinitely after the study is over. The same measures described above will be taken to protect confidentiality of this study data.

Voluntary Nature of Participation in Research

Please understand that your participation in the research is voluntary and that you are free to refuse to participate in this study. You may also withdraw your consent and discontinue participation in the research at any time. If you decide to refuse to participate or to discontinue your participation, there will be no penalty or loss of benefits to which you would be otherwise entitled. If you participate throughout the study, you may refuse to answer any question(s) that might make you feel uncomfortable.

Contact Information

If you have any questions about your rights or treatment as a research participant in this study, please contact the University of California at Berkeley's Committee for the Protection of Human Subjects at (510) 642-7461 or email subjects@berkeley.edu. If you have any questions about the research, please call me, Michael Silver, at (510) 387-8251.

I have read this consent form and agree to take part in this research.

Signature

Date

In addition, our laboratory periodically sends information about experiment participation opportunities via email to a list of potential subjects. If you wish to be added to this list, please complete the form below.

☐ I would like to be added to the Silver Lab potential subjects list. By providing my information below, I understand that I may be contacted via email and asked to participate in future experiments. I understand that I can withdraw my name from this list at any time and that my email address will not be available to any other researchers or other participants on the mailing list.

Name: _____

Email: _____