

## Consent to Participate in Cognitive Neuroscience Research

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This eye-hand coordination task is part of a research study (STUDY2024\_279) conducted by Prof. Jonathan Tsay at Carnegie Mellon University and is funded by Startup Funding provided by Carnegie Mellon University's Department of Psychology.

**Summary:** The research deals with human performance, and in particular how people become coordinated in both their movement and thought, or cognition. We are also interested in how the different parts of the brain interact to enable these abilities. The study may involve performing different tasks that will assess your motor and/or cognitive abilities.

**Purpose:** The purpose of this experiment is to understand the acquisition and performance of motor and cognitive skills in healthy human subjects.

**Procedures:** If you agree to participate, this is what will happen: You will use your computer to perform an on-line experiment. Once connected to the experiment via the internet, the instructions will be presented on your computer screen. During the experiment, you will see pictures on the screen and/or hear sounds and asked to respond to these stimuli. The stimuli are designed to look at different aspects of motor performance and/or cognition. For example, a motor test might require that you move the cursor to a visual target on the screen; a cognitive test might require that you do an arithmetic problem or judge if two words are similar in meaning. You will respond by either typing on your computer keyboard or using an interactive device such as a computer mouse or track pad. Instructions will be provided in the beginning of the experiment. The experiment will be between 1-2 hours.

**Participant Requirements:** Participation in this study is limited to individuals aged 18 and older without a history of neurological disorders.

**Risks:** The risks and discomfort associated with participation in this study are no greater than those ordinarily encountered in daily life or during other online activities. It is unlikely that you will experience any discomfort in performing the experiment. The visual and auditory stimuli are presented at a comfortable lighting and sound level and the movements require a minimal amount of effort. These procedures have been used extensively in previous research. There is a slight chance you may feel frustrated or bored if some of the tasks are difficult for you to do, but you are free to discontinue your participation in the study if you choose.

**Benefits:** There may be no personal benefit from your participation in the study, but the knowledge gained may help us understand how new motor and cognitive skills are acquired, adapted, and retained. These data could be important in the future for designing new physical rehabilitation strategies for individuals with movement disorders.

**Compensation & Costs :** You will receive payment of \$4.50 for your participation.

**Future Use of Information:** In the future, once we have removed all identifiable information from your data, we may use the data for our future research studies, or we may distribute the data to other researchers for their research studies. We would do this without getting additional informed consent from you. Sharing of data with other researchers will only be done in such a manner that you will not be identified.

**Confidentiality:** By participating in this research, you understand and agree that Carnegie Mellon may be required to disclose your consent form, data and other personally identifiable information as required by law, regulation, subpoena or court order. Otherwise, your confidentiality will be maintained in the following manner: Your research data will be stored in a secure location on CMU property or via secure electronic means and in the control of CMU. By participating, you understand and agree that the data and information gathered during this study may be used by Carnegie Mellon and published and/or disclosed by Carnegie Mellon to others outside of Carnegie Mellon. However, your name, address, contact information and other direct personal identifiers will not be mentioned in any such publication or dissemination of the research data and/or results by Carnegie Mellon. Note that per regulation all research data must be kept for a minimum of 3 years.

**Right to Ask Questions & Contact Information:** If you have any questions about this study, you should feel free to ask them by contacting the Principal Investigator, Prof. Jonathan Tsay, at [jtsay2@andrew.cmu.edu](mailto:jtsay2@andrew.cmu.edu). His office is located at 335A Baker Hall, 4909 Frew St, Pittsburgh, PA 15213. If you have questions later, desire additional information, or wish to withdraw your participation please contact the Principal Investigator by e-mail in accordance with the contact information listed above.

If you have questions pertaining to your rights as a research participant; or to report concerns to this study, you should contact the Office of Research integrity and Compliance at Carnegie Mellon University. Email: [irb-review@andrew.cmu.edu](mailto:irb-review@andrew.cmu.edu) . Phone: 412-268-4721.

**Voluntary Participation:** Your participation in this research is voluntary. You may discontinue participation at any time during the research activity. You may print a copy of this consent form for your records.