

UNIVERSITY OF CALIFORNIA – SAN DIEGO CONSENT TO ACT AS A RESEARCH SUBJECT

Dr Adam Aron is conducting a research study to find out how you voluntarily control your motor responses. You have been asked to take part because you are 18 to 75 years old, you have no history of major concussion or neurological or psychiatric illness, and you have indicated your interest in participating.

There will be as many as 1000 participants per year in this study.

If you agree to be in this study, the following WILL happen to you:

1. You will be asked about your age, your gender, and we will ascertain your handedness.
2. You will be given instructions on how to respond during the behavioral session.
3. You will be seated in a quiet testing room in front of a computer and you will perform a behavioral task involving making button presses, joystick movements, foot pedal movements or eye movements (measured via a table-mounted eye-tracker).
4. You will be presented with visual or auditory stimuli.
5. You will be debriefed afterwards about the purpose of the experiment, and have the opportunity to ask questions.

Depending which experiment you are in the following MAY happen to you (experimenter to check box):

- You will have the opportunity to earn more than the standard rate of \$10 per hour (pro rata). In these experiments you will “play for points”, for example, each point will be worth 1 cent, and at the end you can “cash out” your points for money (between \$5 and \$40), which you will be paid in addition to the standard rate.
- You will be presented with emotional picture stimuli, which will be pleasant or unpleasant
- You will be given personality rating scales, such as the Barratt Impulsivity scale and the Eysenck Personality scale.
- In a joystick experiment, your wrist will be secured to a wooden support by a strap to keep your arm from moving while you make flexing and extending wrist movements in response to the stimuli on the screen.
- You will be asked to not eat for several hours before the experiment, so that you are hungry when you arrive. You will be presented with food items or pictures of food items. You will be able to eat some food during the experiment or afterwards, or you will earn credit towards food which you can buy afterwards.
- You will be asked to not drink for several hours before the experiment, so that you are thirsty when you arrive. We will then ask you to eat some liquorice or

salty biscuits to make you even more thirsty. You will then have two or more tubes (with replaceable straw) placed in your mouth that can deliver small amounts of liquid while you do the experiment. The liquid will be water or have a sweet taste (e.g. coca cola) or have a bitter or sour taste.

Total time of one session: 20 to 90 minutes

Please note: When carrying out the personality rating scales, you have the right to refuse to answer any question or to skip any question.

Please note: you are free to withdraw from the experiment at any time without giving a reason. For SONA studies (at the University) you will nonetheless receive full course credit. For in-person studies you will be paid for your time in a pro rata fashion, at \$10 per hour, with the minimum amount of time being 20 mins. For online studies (Prolific), you will be paid for your time in a pro rata fashion, at \$6.50 per hour, with the requirement that when you quit the experiment, you perform the action in Prolific of “returning the submission” and then report the time invested.

Please note: Some of the pictures we will show you may be disturbing. To prepare you for this, and before you sign the consent, we will show you the kinds of pictures you will see.

Participation in this study may involve some risks or discomforts.

1. There is a potential for the loss of confidentiality. To address this an alphanumeric code designating your data will only be linked to your name via a master sheet, kept under lock and key, where the consent form will also be kept. The only place your name is recorded is on the master sheet, on the consent form, and on the subject pool (Sona) to give course credit or else on a payment slip to get reimbursement for your participation. For subjects recruited through Prolific, only your alphanumeric Prolific ID is recorded. Names are never provided to the experimenter.
2. There is also a potential for boredom or fatigue. In order to minimize any discomfort, there are breaks in the experiment.
3. There is a slight risk of discomfort from the emotional picture stimuli. To address this we will show you some examples before you start.
4. There is a possibility you will feel stress associated with resisting positive stimuli (food). In the mild hunger/thirst experiments, you may feel some stress associated with hunger/thirst. For these hunger/thirst experiments, we will make sure, before we begin that you are not so hungry or thirsty so as to feel faint. We aim for mild not extreme deprivation. The experimenter will always and repeatedly check in with you about feeling tired/faint/unwell.

Because this is a research study, there may also be some unknown risks that are currently unforeseeable. You will be informed of any significant new findings. You will be told if any important new information is found during the course of this study that may affect your wanting to continue.

In addition to receiving course credit, or reimbursement, participating in these experiments can provide insight into the nature and content of cognitive psychology experiments. Moreover, the investigator may learn useful information about the mechanisms of response control, which could lead to future studies in patients and with functional imaging, which will be useful for understanding impulse control disorders. There is however no direct benefit to you from participating in the study.

This study has been explained to you and your questions have been answered. If you have other questions for research-related problems, you may reach Dr. Adam Aron at (858) 822-1096.

If you are injured as a direct result of participation in this research, the University of California will provide any medical care you need to treat those injuries. The University will not provide any other form of compensation to you if you are injured. You may call the Human Research Protections Program at (858) 246-4777 for more information about this, to inquire about your rights as a research subject, or to report research-related problems.

Participation in research is entirely voluntary. The alternative to participating is simply not participating. You may refuse to participate or withdraw at any time without jeopardy.

Research records will be kept confidential to the extent allowed by law.

You have received a copy of this consent document to keep.

You agree to participate.

If participating in an online study, continue to the study to indicate you have read and understood the above information and agree to participate.

Subject's Name

Subject's Signature
Date

Witness

Please Tick the Box if you give permission for us to contact you again for another experiment.

