**Effects of Movements on Galvanic Skin Response Readings Script**

**(Spring 2020; Rev. 01/10/2020)**

**Before Participant Arrives**

**General**

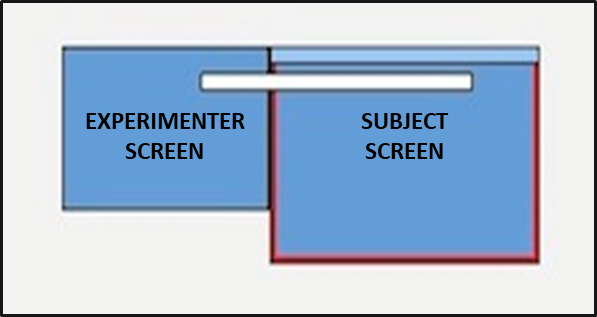
* Check experiment roster to identify the next available subject ID# (s???). Assign subject ID#’s in sequential order (starting at 101, 102, etc.)
  + Experiment will ask you to input their SubId# at the end of the experiment

**Subject Screen**

* Turn on computer
  + Log in as lab. Password is *goutvols*
* Open Quicktime player
  + File > New Audio Recording
    - Ensure Audio Recording box has volume set to zero
    - Move Audio Recording box to experimenter screen
  + File > New Movie Recoding
    - Ensure Movie Recording box has volume set to zero
    - Move Movie Recording box to experimenter screen
* Check that the computer volume is approximately at 75%
* Double-click the demand19a\_experiment icon. Make sure browser window is full screen
* Turn on BioPac. Have two electrodes ready.
* Turn on both side lamps. Turn off overhead light. Close door. Turn on white-noise machine
* **Check which condition the participant in and locate the appropriate script.**

**Experimenter Screen**

* Start recording in Movie recorder
* Go to participant side and move the mouse back to their screen.
* Note: when participant is doing the experiment, do **not** touch the mouse.

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**After Participant Has Arrived**

[Bring general consent form with you]

Thanks for coming in today. My name is \_\_\_\_. Please come in and have a seat.

[Close door]

[Ask participant to silence their cellphone and place it in the bin]

Today, we are asking you to take part in two SONA studies. Study #1 will take no longer than 30 minutes and you will receive .50 SONA credit. Afterwards, we will ask if you are willing to do Study #2 for another .50 SONA credit. We will start with Study #1.

In Study #1, we are interested in how muscle movements and fluctuations in concentration and mood influence galvanic skin response readings. Galvanic skin response is a harmless measure of electrical resistance in your skin that is commonly used in psychology experiments. But researchers have found that accidental muscle movements can interfere with these readings. To examine this, we are having move their hands, feet, or face while we measure galvanic skin response. You have been assigned to move your face

If you volunteer to participate, we will put two electrodes on your left hand. Then the computer will assign you to complete three timed facial movements two times. In total, there will be 6 timed movements. Afterwards, the computer will ask you question about your concentration and mood. At the end of the study, I will interview you about your thoughts about the study.

[Have participant complete consent form]

**After Participant Signs Consent**

[Attach GSR sensor to participant’s left hand]

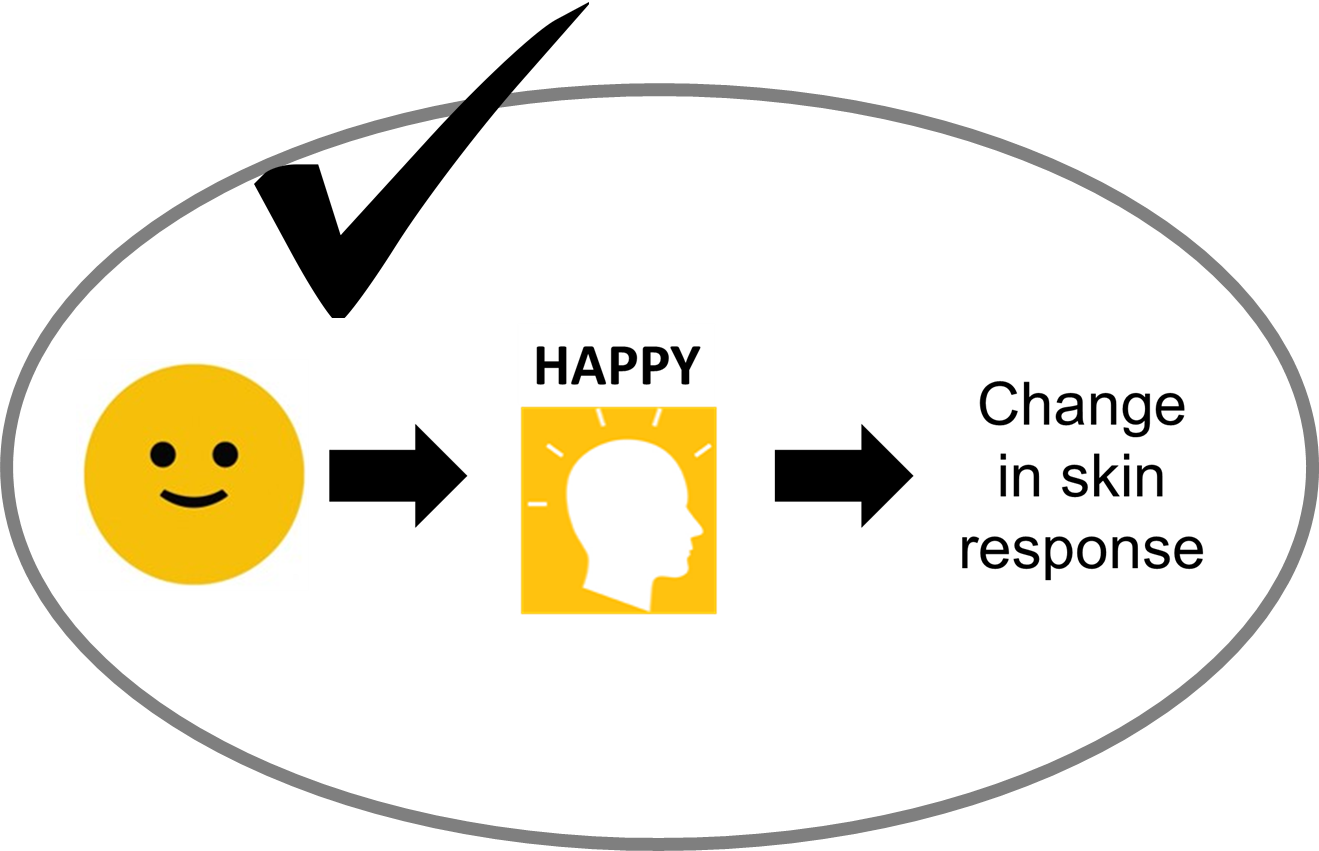
Is everything comfortable?

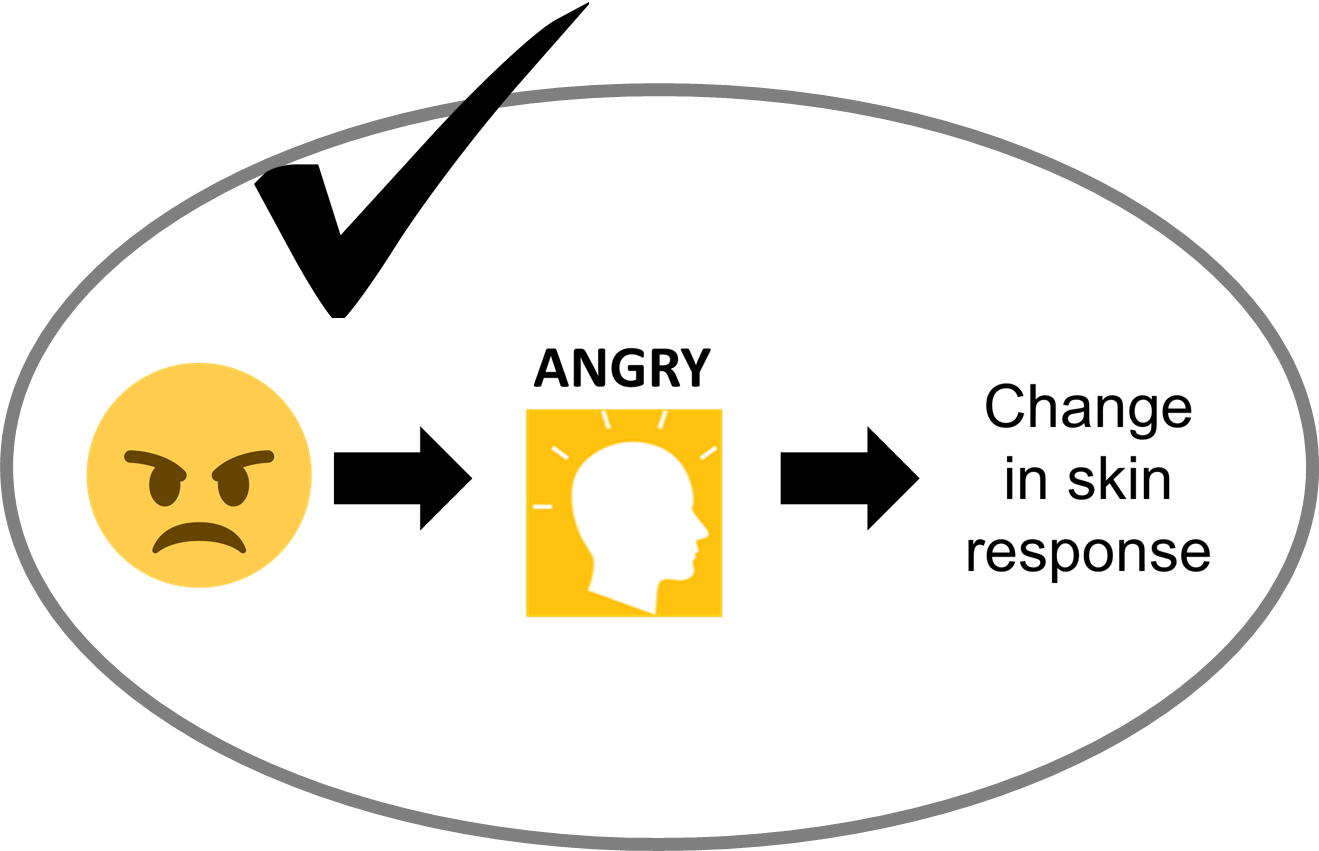
**Demand Characteristics Manipulation**

This next part is important, so will ask you questions about it later.

Researchers know that facial expressions influence skin responses. However, they are not sure why. Some researchers think that this happens because posing facial expression of emotion cause you to feel that emotion. That is, smiling may make your happier, or scowling may make you angrier. *We believe this is true.* *We are running this study to prove our hypothesis that posing facial expressions cause you to experience that emotion*.

Some people find this confusing, so we show everybody this picture to help make it clear. Explain that their facial expressions influence their emotions which influence their skin response. And that this is our hypothesis.





**Final Instructions**

When you’re done with the experiment or if you need me for some other reason, click the DONE switch on your right. Clicking this button will send me a notification.

You can now start the experiment.

[Leave]

**Experiment**

[The web application will guide the participant through the experiment. After completing the six facial expression trials and some individual difference measures, the screen will tell them to hit the light switch to notify you that they are done. Watch the participant go through the experiment and make notes if necessary]

**Debriefing Template (Go Off Script When Necessary)**

[Bring the video and audio consent forms. Make sure the audio consent form is on top]

I’d like to end by talking about the study for a few minutes. We will not be needing the computer.

[Move the mouse far to the left, over to the experimenter screen]

[Take electrodes off]

I will take notes as we discuss the study. However, we would preferably like to audiotape the conversation if that’s OK with you. Here’s the consent form for the audiotaping. Don’t feel obligated to consent if you don’t want to. You will receive full research credit regardless of whether we record the conversation.

[Have participant complete audio consent form]

I’ll go file this, and then we will begin the debriefing.

[Turn off video recorder]

[If the participant consented to audio recording: Turn on the audio recorder. Bring in the fake audio recorder, place it on the far corner of the desk, and say “Ok, we are now being recorded”]

I have some questions for you, and some of them may seem a bit obvious. But, before I begin, do you have any questions for me about the study?

Throughout the course of a study, people often form beliefs about the purpose of the research. Researchers are interested in these beliefs because they may impact peoples’ behavior throughout the study.

1. Do you think we expected any aspect of the study to influence your GSR readings? [If so, what?]
2. If they did not say that facial expressions would influence GSR, say: We expected that your facial movements would influence your GSR readings. Why do you think we would expect to find that?
3. Throughout the experiment, we asked you questions about your emotions. Why do you think we asked you those questions?

* [If they say something other than ‘facial movement/expression’]. Do you think there was any other reason we asked you those questions?

1. At the beginning of the study, I told you our hypothesis regarding facial expressions and emotions. Do you remember what I told you? What do you think of the idea?

I told you that we were interested in how facial expressions influence skin response. This was not true, and the skin measurement machine is not actually being used. We were more interested in whether your facial expressions influence your emotions [PAUSE]. What do you think about this? Do you think that posing a facial expression influences your emotions?

Our actual research question was how your expectations influence this facial expression effect. For example, maybe the only reason why smiling makes people feel happy is because they expect it to.

[Slowly and clearly] To test this, we are splitting you all into three groups. We tell some people that we believe facial expressions influence emotion. We tell other people that we **don’t** believe facial expressions influence emotion. And some people are not told anything.

[Pause and give participant a few moments to react]

Thinking back to when I first spoke to you, what group would you say you are in?

[If they guess incorrectly, try to figure out why they think that]

How surprised are you that we are actually interested in how expectations influence the effects of facial expressions on emotions?

We apologize for deceiving you about the purpose of the experiment. There was one other aspect of the study that you were not told about. Any idea what that might be?

[Pause and give participant a few moments to think]

We actually were recording your facial expressions through the monitor’s webcam.

[Pause]

Does this come as a surprise to you?

I apologize for this deception and I want to explain why we did it. Basically, it’s because it is very important for us to be able to examine which areas of your face actually moved when you were posing expressions. We did not tell you we were recording for these purposes because previous experiments have suggested that participants behave differently when they believe that they are being recorded. If it’s OK with you, we’d like the opportunity to use your video for several purposes described in this supplemental consent form. Please read it carefully and don’t feel any obligation to consent to anything you don’t want to.

[Let participant complete the video consent form]

I also have to ask if you had heard anything about this study before you came in today? It’s OK if you did; we just need to know for methodological purposes.

[Pause and give participant a few moments to respond]

It is important that future participants are unaware of the deception and the true purpose of this study. If know about the true purpose of the study, it would be a waste of time for everyone involved: you, other participants, and us. All that said, we kindly ask that you not tell anyone else enrolled in psychology classes any details of this study.

**STUDY 2**

You are now done with Study #1, and I will award your .50 SONA credit shortly. Would you like to complete a short second study for an additional .50 SONA credit?

Here’s the consent form for this study. Please read it carefully before deciding whether to participate and let me know if you have any questions about it. While you read this over, I will put away the materials for Study #1 and turn off all recording devices. You will not be recorded in this study and there is no deception involved.

[Turn off done button]

[Bring recorder back into the office]

[Go into other room and turn off all recorders]

**After Participant Signs Consent**

[Minimize the Study #1 screen and open the link to the PSA study]

[Click “Login as Guest”]

You will complete the study entirely from this computer. In the beginning of the study, the program will ask you for your lab ID. Your lab ID is USA\_031. A copy of this lab ID is printed in front of on the sticky note.

The program will have you rate a set of faces twice and then tell you when you are done. Once you receive that prompt, please click the DONE button.

Any questions? Go ahead and begin.

[Put Study #2 Consent form in binder]

**Study**

[The web application will guide the participant through the experiment. They will fill out a demographic questionnaire and then rate 120 faces twice. The study should only take 5-10 minutes.]

**Debriefing**

Thank you for participating in this study. As mentioned in the online program, the purpose of this study was to examine how people form impressions of others based on facial appearance. Therefore, we had of you rate a series of faces on a single adjective. Do you have any questions for me about the study?

Thank you very much for you time. I will award your SONA credit shortly. If you have any questions about this study, please call or email Dr. Jeff Larsen, whose contact info is on SONA.

**AFTER PARTICIPANT LEAVES**

1. Turn off done button
2. Type “password” in the box to proceed to the experimenter info section.
3. Fill out all the questions. Once there are no more questions, the survey will tell you that the data have been submitted.
4. Close experiment
5. Turn off the biopac and wrap the cord neatly
6. Turn off the side lights
7. Turn off white noise maker
8. Bring recorder back into the office

**STUDY #1 DATA PROCESSING**

[Open up the Study #1 window]

[Type “password” in the box to proceed to the experimenter info section.]

[Fill out all the questions. Once there are no more questions, the survey will tell you that the data have been submitted.]

[Close experiment]

[Turn off the side lights]

**Save participant video and audio**

* Click on the Movie Recorder box. Go to File > Save > Export As
  + Save name as demand19a\_s??? (inserting their subject number in place of the question marks)
  + For file location choose demand19a\_video
* If audio was recorded, stop the recording. Go to File > Save > Export As
  + Save name as demand19a\_s??? (inserting their subject number in place of the question marks)
  + For file location choose demand19a\_audio

Give SONA credit

Ensure that the subject tracker has been completed filled out.

Place the participant information sheet in its correct section.

Staple the three Study 1 consent forms and place them in the informed consent binder.

If you encountered any issues, contact Nick (###-###-####) or Brooke (###-###-####).