1. **TITLE**

What is behavior?

1. **DATES**

Start Date: On Approval

End Date: July 1, 2021

1. **INVESTIGATORS**

Yael Niv, Ph.D. – PI

PNI 143

Princeton University

Princeton, NJ 08540

Phone: 609-258-1291

Email: yael@princeton.edu

The following investigators are Advisees of Dr. Niv

Adam Calhoun, Postdoctoral Research Associate

Email: [adamjc@princeton.edu](mailto:adamjc@princeton.edu)

Ahmed El Hady, Postdoctoral Research Associate

Email: ??

1. Check if data will be collected from or about any of the following protected populations: □ minors □ prisoners □ pregnant women □ fetuses □ institutionalized mentally disabled (individuals residing as patients in an institution who are mentally ill or retarded; emotionally disturbed; psychotic; or senile).

**PURPOSE AND BACKGROUND**

The present protocol is intended to cover a range of studies, all employing similar behavioral paradigms. This protocol incorporates several aims covered by this lab. These aims are

*1)* Understanding whether there is a consistent definition of behavior that is used among researchers.

*2)* Understanding whether this definition is different between people who work in different subfields.

Data collected in these studies will be used for further analysis.

1. **STUDY DESIGN, PROCEDURES, AND ANALYSIS PLAN**

Our planned experiments involve presenting participants with a survey consisting of a set of questions presented on a computer monitor or other internet-connected device which they will be asked to answer. The participants will be free to end the survey at any time. Participants will not receive feedback on their answers.

The survey will last roughly 10-20 minutes. Participation will be elicited electronically. The number of participants in the studies will be at least 100. We will collect informed consent from each subject prior to subjects’ starting the experiment (see Section 7 for more details on how we will collect consent.) At this time, subjects will be informed that they can end their participation in the study at any time. We will use the standard informed consent document previously approved by this panel, modified to fit the specific details of the particular study. A copy of this consent form have been attached. Analysis of the data from all experiments will include only the answers to the survey questions.

1. **SUBJECT SELECTION AND WITDRAWAL**

**Inclusion Criteria.** We will recruit participants from the academic community, which will include students, as well as other community members. Participants from the following range will be recruited: 18-90 years old. The racial, ethnic, and gender characteristics of the recruited sample will approximate the demographics of the source population.

**Exclusion Criteria.** No subjects who meet the inclusion criteria will be excluded from this study.

**Subject Recruitment.** Recruitment will be done through email elicitation and notices posted to use-net lists and Twitter, as well as word of mouth.

**Early Withdrawal of Subjects.** During the consent process at the beginning of the session, subjects will be informed that they may withdraw at any time simply by closing the survey.

**Compensation.** Participants will not receive material compensation for this study.

1. **INFORMED CONSENT**

For experiments conducted online, it will not be possible to request signed consent. In lieu of this, subjects will be asked to press a button or check a box on a web form indicating their consent.

1. **DECEPTION**

No deception will be used in our studies.

1. **DEBRIEFING**

After completion of the study, participants will be given a full description of the scientific purpose of the study, and offered the opportunity to email questions and comments. The debriefing form will be tailored to match the experimental purpose of the study mentioned in this protocol.. For the online version the debriefing form will be available for the subjects.

1. **JEOPARDY**

Participation of subjects will not place any group or class of individuals in physical, legal, social and/or psychological jeopardy.

1. **RISKS**

This study involves minimal foreseeable risk. No vulnerable populations will be recruited and no sensitive or personal information will be collected. The risks to participants amount to those involved in sitting in a chair and using a computer, that is, boredom or mild frustration with the task. It will be made clear to every subject that he/she can halt the experiment at any time and for any reason.

1. **RISK/BENEFIT RATIO**

Other than the possible psychological reward of participating in research, this paradigm provides no direct benefit to the subject. There are no known harmful risks involved. Information gathered will be used to advance our understanding of behavior, information which may eventually contribute to the diagnosis, treatment and cure of neurological and psychiatric disorders.

1. **SUBJECT CONFIDENTIALITY**

Subjects will be assigned a coded designation that will deprive the collected data of any connection to the subject’s identity, while the actual names, contact information, and other personal information will be kept in a locked file cabinet, with access available only to persons listed in this application. If any information obtained from this study is published, it will be written so that the identity of the subjects will remain confidential.

1. **OUTSIDE AGENCIES**

The only outside agency involved in this research is Qualtrix, which will administer the online study. Qualtrix serves as an honest broker (a centralized custodian who controls data and will not release codes or IDs), and their privacy policy is outlined here https://www.mturk.com/mturk/privacynotice#info. Participation in this experiment is entirely voluntary. Participants may choose not to provide any data they do not wish to.

1. **TRAINING AND CERITIFICATION**

All University personnel who interact with human subjects or with identifiable subject data as part of this research project must complete the University’s training program and be so certified prior to initiating contact with subjects or identifiable subject data. Furthermore, all third-party contractors or subcontractors or collaborating institutions who personnel will interact with human subjects or with identifiable subject data as part of this research project must certify to the IRB that their personnel have undergone appropriate internal training as well. Please respond to the following questions:

* 1. Have all investigators identified above completed the University's training program (please check appropriate box): **Yes**.

If No, please complete the training program immediately after reviewing ORPA's homepage information about this procedure.

* 1. Are there any current or anticipated future employees or students working on this project who will interact with human subjects or with identifiable subject data? **Yes**.

If Yes, please state that you understand that such personnel must complete the University's training program before they may interact with subjects or identifiable subject data.

**If any other students or employees are to be involved in this research in a capacity in which they interact with subjects or identifiable subject data, we will file an addendum to this application with their names and certification of their Princeton human subjects training prior to permitting their involvement.**

* 1. Are there or will there be any third party contractors or subcontractors or collaborating institutions working on this project whose personnel will interact with human subjects or with identifiable subject data? **No**.

Please note that the IRB will not approve this study unless all proper training is completed or certifications are received.

**18.** **SIGNATURES**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Principal Investigator Graduate Student

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Graduate Student Graduate Student

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_

**Checklist for Submission**

Please be sure that you have submitted all of the following, whenever appropriate.

□ Contact information for all participating investigators

□ Consent forms that include a description of the research

□ Debriefing forms, if needed

□ Complete Questionnaire or interview protocol and recruitment letters (in English if research is being conducted in a foreign country)

□ IRB approvals

□ Certificate of Human Subjects training

□ Secure storage of data

□ Secure storage of consent forms, separately from data

□ Signatures