

0:02 hrs

PROTOCOLS



# #16615 - Memory test for word and picture

## Protocol Information

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Review Type	Status	Approval Date	Continuing Review Date
Exempt	Exempt	Nov 22, 2022	Sep 21, 2023
Expiration Date	Initial Approval Date	Initial Review Type	
--	Sep 21, 2022	Exempt	

Approval Comment

A001  
This research is exempt under the following category:- Category 3(i)(A)

## Feedback

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## Protocol Amendment Form

Amendment Request

4000  
Select your Protocol Type  
Exempt

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**Amendment Number**

001

4004

**Describe the changes being made.**

Add necessary information for conducting this same experiment online for Prolific.

4005

**Why are these changes being made (i.e. what is the rationale for these changes)?**

We want to conduct this same experiment online to collect more data.

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**General Information****Principal Investigator**

Shiffrin, Richard

**Lead Unit**

BL-PSY - PSYCHOLOGICAL & BRAIN SCIENCES

**Study Title**

Memory test for word and picture

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0100

Select your protocol type.

Exempt

Research Personnel

This Personnel list is for Research Personnel Only. For individuals who need access to the protocol but are not research personnel, add them to the Permissions tab.  
For NEW studies and Amendments changing the PI, you must click on the pencil icon to complete all required information in the person record.

Person

Shiffrin, Richard

Email Address

shiffrin@indiana.edu

Researcher Role

Principal Investigator (PI)

Home Unit

BL-PSY - PSYCHOLOGICAL & BRAIN SCIENCES

0144

IU Faculty, Staff or Student?

Yes

Permission Type

Full Access

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Training

Behavioral/Social Science Researcher - Stage 1 - CITI

01/05/11 - 01/04/14

! Expired

Behavioral/Social Science Researcher - Stage 2 - CITI

09/25/14 - 09/24/17

! Expired

Behavioral/Social Science Researcher - Stage 3 - CITI

09/01/18 - 08/31/21

! Expired

Behavioral/Social Science Researcher - Stage 4 - CITI

06/29/21 - 06/28/26

0109

COI Disclosure

Status: Approved

For Expedited/Full Board or Request to rely on non-IU IRB protocol types, attach a CV for the Principal Investigator below.

People Attachments

Person

Tan, Yiyan

Email Address

yytan@iu.edu

Researcher Role

Co-PI

0144

IU Faculty, Staff or Student?

Yes

Permission Type

Full Access

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## Training

Behavioral/Social Science Researcher - Stage 1 - CITI 12/28/21 - 12/27/26

0109

COI Disclosure

Status: Approved

## People Attachments

0259

**Are there any affiliated personnel you are unable to add because they were not found in the drop down list?**

No

0195

**Are you requesting that the IU IRB serve as the IRB of record for any *non-affiliated* researchers?**

No

## Conflict Of Interest

0110

**Do any of the research personnel have a significant financial interest which could affect this research?**

No

0114

**Are any of the research personnel aware of an institutional conflict of interest which could affect or be affected by this research?**

No

**0:02 hrs Search Basics**

0102

**Will the study be funded, fully or partly, by any of the following sources (this includes pass through funding)? Select all that apply.**

No external funding

0832

**Select all of the following participant types that will be included in the research.**

None of the above

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**The research includes: Select all options that apply.**

Research involving data collection with subject interaction. This includes in person and online surveys, focus groups, interviews, benign behavioral interventions, and public observation when a researcher is participating in the activities being observed

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**Research Design**

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**Provide a brief statement (no more than 2 – 3 sentences) of the purpose of this study, in lay terms.**

The purpose of this study is to investigate how people remember words and pictures. A current study shows that selective retrieval can revive forgotten memories and cause lasting recall enhancement, we aim to test the theory using different conditions.

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**Describe the research interactions or interventions and data collection methods for the study. Include the frequency and duration of each procedure or activity.**

1. Participants will sign up for one of the study's timeslots on SONA. Within 10 minutes of the scheduled time of the study, participants will meet me outside of the Psychology and Brain science building at 320. The experiment is expected to take approximately 50 minutes. During the experiment, when they are ready to begin, they will press the RETURN key, and study the words presented. The participants will be shown a list of words to remember. Then they will be given additional instructions telling them the way their memory will be tested. Then they will be shown a long series of pictures to remember, followed by tests of their memory. During the memory tests, sometimes they will be shown a word's first letter, and the participants will try to type the word beginning with that letter or press the 0 key if they cannot. Other times they will be shown a word or a picture and decide whether it was one they studied. About half the time it will have been one they studied and about half the time a new word or picture. If it was one they had studied they will press the D key, and if a new word or picture they will need to press the K key. (The instructions are attached.)

2. Data will also be collected online through platforms at Prolific. The research interactions or interventions look like this: Firstly, they go to Qualtrics, and they will be shown the study information sheet they will be directed to the next page. After clicking the link, the experiment will ask the participant to type in ID in Prolific. Then, they will overview the instructions for the rest of the experiment. During the experiment, when they are ready to begin, they will press the RETURN key, and study the words presented. The participants will be shown a list of words to remember. Then they will be given additional instructions telling them the way their memory will be tested. Then they will be shown a long series of pictures to remember, followed by tests of their memory. During the memory tests, sometimes they will be shown a word's first letter, and the participants will try to type the word beginning with that letter or press the 0 key if they cannot. Other times they will be shown a word or a picture and decide whether it was one they studied. About half the time it will have been one they studied and about half the time a new word or picture. If it was one they had studied they will press the 1 key, and if a new word or picture they will need to press the 0 key. They can't skip questions. (The instructions are attached.) They will then

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two demographic questions to ask about their gender and age, they can decline to state if they do not wish to answer these two questions. The study will take place on the web and the time to complete it will vary among different participants, but most should finish in about 50 minutes. After this, participants will be presented with the study completion code that they can enter back to verify that they completed the study.

0813

**Will identifiable information be collected?**

Yes

0814

**If disclosed outside of the research, could subjects' data place them at risk of any of the following:**

- criminal or civil liability
- damage to their financial standing,
- damage to their employability
- damage to their educational advancement
- damage to their reputation

No

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**Research Settings**

0116

**Select all of the settings where the research interactions or interventions will take place.**

IU campus

Other

0121

**Name or describe the school or other settings where the research interactions or interventions will take place.**

For recruiting from the IU SONA system, the experiment will take place at psychology and brain science building A320. For the online version, the entire study will be hosted online through Proli|c.



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**Select one of the following as it relates to the other research settings.**

Permission from the location is not required.

0123

**Explain why permission from the location is not required.**

Prolihc hosts experiments online, so there is no location to obtain permission from.

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### Confidentiality & Privacy

0133

**Select any source of information listed below that will be used for the research, either to identify potential subjects or gather research data. Select all that apply.**

None of the above

0135

**Will any data generated as part of the research be entered into a subject's medical record?**

No

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**Describe where identifiable electronic subject data will be stored, and how it will be protected to ensure confidentiality (e.g. all electronic data will be collected and stored on only encrypted devices).**

Data will be stored in a couple of locations. One location is the server that hosts the experiment, which is only accessible through a username and password only available to the Co-PI of this study. Once the data are downloaded from the server, the data will be stored on a password-protected laptop that only the Co-PI has access to. Additionally, the data will be backed up on an external hard drive that is in a locked and secured location only the Co-PI has access.

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0162

**Describe the procedures that will be used to ensure confidentiality of written/paper records that contain subjects' identifiable data.**

There will be no written/paper records.

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### Transnational Research

0474

**Does the research involve any of the following transnational components? *Select all that apply.***

None of the above

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### Eligibility and Recruitment

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**List criteria used to determine that a subject is eligible to participate in this study.**

All participants must be at least 18 years old, be able to read English, and be SONA PBS subjects. For Prolific: Participants need to sign up via Prolific and must be residents of the United States.

0304

**Will subjects be offered any of the following for their participation in the study? All of these are forms of payment. Select all that apply.**

Cash, gift card, or check

Course credit

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0818

**Describe the payment arrangement, including amount and timing of disbursement.**

For SONA, subjects will be compensated 1 credit on SONA for participating in the experiment. The 1 credit will be updated on SONA the same day as when the subjects complete the study. Since the study is approximately 50 minutes long, 1 credit is appropriate compensation for people's participation. If one does not wish to participate in the study, an alternate way to earn 1 credit is to write a one-page, ungraded paper. All the students should see their instructor for the topic. For prolific, usually, our experiment will take 45-50 mins, we will pay them 7.87 dollars for completing the study, and the payment will be disbursed within 5 days of them completing the experiment.

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0307

**Describe your recruitment process, including how subjects will be identified and contacted.**

1. Potential subjects will be initially identified through SONA. Potential subjects all have access to SONA, in which they can view information about the studies, and they will self-select which ones they would like to participate in. 2. Postings for the research will appear on the Proifics page.

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**Describe how you will obtain permission from subjects to participate, which includes the following information:**

- They are being asked to participate in research,
- What they will be asked to do,
- Their participation is voluntary,
- The risks and benefits of participation, and
- Who to contact with any questions about the research.

This information will be included at the beginning of written materials, such as a survey, that will be completed by subjects.

A separate study information sheet will be given to each potential subject to review. The study information sheet is uploaded in the Protocol Attachments below.

0821

**Will any member of the research team be in a position of authority (e.g. instructor and his/her students, manager and his/her employees) over the subjects?**

No

**Protocol Attachments**

Select **+Add Line** to add each attachment

Select **Replace** to replace an existing document

**Attachment Type**

Study Information Sheet

**Attachment**

16615 - 001 - SIS .DOCX

**Description**

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Attachment Type

Recruitment Materials

Attachment

16615 - 001 - REC.DOCX

Description

Attachment Type

Data Collection Instrument

Attachment

16615 - 001 - INST FOR EXPERIMENT.DOCX

Description

Attachment Type

Data Collection Instrument

Attachment

16615 - 001 - INST SAMPLES OF PICTURES AND WORDS THEY WILL SEE.DOCX

Description

Attachment Type

Recruitment Materials

Attachment

16615 - 002 - REC AD FOR PROLIFIC.DOCX

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Attachment Type

Study Information Sheet

Attachment

16615 - 002 - SIS PROLIFIC .DOCX

Description

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# Administrative Details Form

## Protocol Details

9031

Protocol Type  
Exempt

Billing Account #

Study Status

## Submission Details

9029

Exempt Category  
Category 3(i)(A): Benign behavioral intervention & de-identified

## Protocol Determinations

9032

Check all determinations that need to be made.  
None of the above

9028

Other Determinations.