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## Stroop

Coordination Data

**IRB Number:**

IRB 17-172

**Was this protocol registered as part of a grant submission?:**

No

**Proposed Start Date:**

Tuesday, March 20, 2018

**Principal Investigator:**

Student

**Responsible Faculty or Staff Name:**

Kauyumari Sanchez

**Responsible Faculty or Staff Department:**

Psychology

**Responsible Faculty or Staff Email:**

[Kauyumari.Sanchez@humboldt.edu](mailto:Kauyumari.Sanchez@humboldt.edu) [1]

**Responsible Faculty or Staff Phone Number:**

(707) 826-3748

**CITI Training Date of Completion:**

Thursday, November 19, 2015

**Student or External Name:**

Cassady McLaughlin

**Student or External Department:**

Psychology

**Student or External Email:**

[crm871@humboldt.edu](mailto:crm871@humboldt.edu) [2]

**Student or External Phone Number:**

831-233-9664

**Qualifications:**

Graduate Student

**Responsibilities:**

Design experiment, run experiment, analyze data.

**CITI Training Complete:**

Yes

**CITI Training Date of Completion:**

Thursday, December 15, 2016

**Purpose of Project:**

Graduate Research

**Do you or anyone else plan on disseminating the information acquired from this project outside of the specified course classroom or the University? (Please check “yes” for dissemination if you are conducting research for a thesis that will be published on Digital Scholar.):**

Yes

**If Yes, please explain:**

This research is part of a thesis project.

**Assurances:**

Ensuring the quality and accuracy of the written materials included in the Application for Review;

Ensuring Human Subjects in Research Training for all personnel who may interact with human subjects or have access to subjects' information or responses;

Supervising the conduct of research protocols submitted under their direction;

Ensuring compliance with all federal, state and local regulations, as well as Humboldt State University policies regarding the protection of human subjects in research;

Adhering to any stipulations imposed by the Humboldt State University IRB;

Ensuring that permission from outside institutions (e.g., tribes, hospitals, prisons, or schools) is obtained, if applicable;

Retaining all research data, including informed consent documentation of participants, in accordance with institutional, local, state and federal regulations;

Reporting to the Humboldt State University IRB immediately if there are any adverse events and/or unanticipated problems involving risks to subjects or others.

**Lay Abstract:**

The purpose of this research is to further understand an important aspect of memory: false memories. I intend to discover whether or not the two different kinds of long-term memory (implicit and explicit) are affected differently in an learning situation in which learning is not intentional. The font color of the presented information will either be the same during learning and during the memory test, or it will be different. In other words, I would like to examine the difference between implicit and explicit false memories after information is learned incidentally (not on purpose) either in congruent font colors or incongruent.

**Type of Data:**

Experimental/Physical Intervention

**Sources for data or records::**

Data will be collected on the computer

**Type of Subjects:**

Humboldt State University Students

**Estimated Number of Subjects:**

80

**Expected Age of Subjects:**

18-24

**Approximate total time commitment required from subjects:**

45 minutes

**Will subjects be Compensated?:**

Yes

**Compensation and Influence:**

Participants will be given course credit or extra credit for their psychology courses.

**Description:**

False memories are very similar to accurate memories in that they both contain information about context. However, false memories are memories of things that never actually happened. The goal of this study is to learn more about the cognitive mechanisms that underlie false memories. It has been found that when information is learned in similar contexts as when it is retrieved from long-term memory, the memories are often better than if the information was learned and retrieved in different contexts. For example, if one learns information in a pink font, their memory of that information will be facilitated if they are also tested in a pink font compared to a green font. It has also been found that implicit memories are more reliant on contextual information than explicit memories. This means that implicit memories are affected more than explicit memories by perceptual information such as

font color. Finally, unintentional or incidental learning has been found to result in less explicit memories, but implicit memories are not affected. The purpose of this study is to identify whether incidentally learned information that is presented in either congruent or incongruent font colors at learning and retrieval affects implicit and explicit false memories differently. Due to the findings of previous research, it is hypothesized that those being tested on their implicit memory will have more accurate and false memories in congruent conditions compared to those being tested on their explicit memory. It is also hypothesized that in general, those in congruent conditions will have more accurate and more false memories than those in incongruent conditions. Finally, it is hypothesized that those being tested on their implicit memory will have more accurate and false memories than those being tested on their explicit memory.

**Recruitment and Selection:**

Participants will sign up for the study using the SONA system.

**Types of Vulnerable Subjects:**

Not applicable to this project

**Documentation Type:**

Informed Consent: is written in language that is understandable to the subject or the legally authorized representative.

**Consent Process:**

Participants will be handed the written informed consent paper as soon as they enter the lab. Those who do not consent will not participate in the study.

**Methods and procedures involving human subjects:**

Participants will undergo the entirety of the experiment using a desktop computer in the lab suite of BSS 404. The first phase of the experiment is the color identification phase, in which participants are to identify the colors of objects that are presented to them on the screen. The colors used in this phase are blue, red, yellow, and green. They will signify the various colors using keys on the keyboard. To begin, participants will identify the colors of rows of asterisks for practice. After the practice, four word lists of words related in meaning will be presented to them. These word lists are known to cause high levels of false memories for a strongly related word that is not presented. The participants will not be told about the following memory test because the learning is meant to be incidental. The memory test will be either implicit or explicit. The implicit memory test will be a word stem completion task. Participants will be presented with three-letter word stems and will be instructed to complete the stem with the first word that comes to mind. The explicit memory test will be a recognition test in which participants will be presented with words and will identify whether they have already seen the word during the first phase of the experiment or not. Each participant in both test conditions will see the words in either a congruent font color or an incongruent font color (white) as it was presented in the learning phase. In both test conditions, the strongly related word that was not presented during the learning phase, will be presented and if participants have a memory of this word, whether implicit or explicit, it will be deemed a false memory.

**Benefits:**

Further understanding of psychological concepts.

**Potential Risks:**

This procedure contains minimal risks, such as boredom or fatigue.

**Risk Management Procedures:**

The participant is reminded in the consent form that they withdraw from the study at any time without penalty.

**Anonymity and Confidentiality:**

Consent forms and experimental data not linked in any manner. They are also stored separately.

**Data Storage, Security and Destruction:**

The American Psychological Association requires that data be retained for at least 5 years after the date of publication of the data. The data will be stored in the PI's laboratory.

**Informed Consent Storage:**

Consent forms are stored in the PI's research laboratory for a minimum of 3 years.

**I acknowledge that completed consent forms will be securely retained by project personnel, and made available upon request, for at least 3 years after completion of this research. Checking this box is required for all projects using consent documentation (online or paper consent forms):.**

Yes

**Supplement:**

 [Informed Consent.docx](#) [3]

Reviewer Data and Comments

**Reviewer Comments:**

Hi Cassady, Thank you for submitting your interesting application. Please see my review points in the document below. Thanks, Susan

I approve of this application.

Principal Investigator Review Comments

**Principal Investigator Comments:**

Hello, Thank you for your comments. I made the changes to my consent form and have attached the modified form to my application.

**Reviewer Documents:**

 [Review of IRB 17-172.docx](#) [4]

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**Source URL:** <https://hsu-forms.humboldt.edu/irbsub/?q=node/1693>

**Links**

[1] <mailto:Kauyumari.Sanchez@humboldt.edu>

[2] <mailto:crm871@humboldt.edu>

[3] [https://hsu-forms.humboldt.edu/irbsub/sites/default/files/Informed%20Consent\\_38.docx](https://hsu-forms.humboldt.edu/irbsub/sites/default/files/Informed%20Consent_38.docx)

[4] <https://hsu-forms.humboldt.edu/irbsub/sites/default/files/Review%20of%20IRB%2017-172.docx>