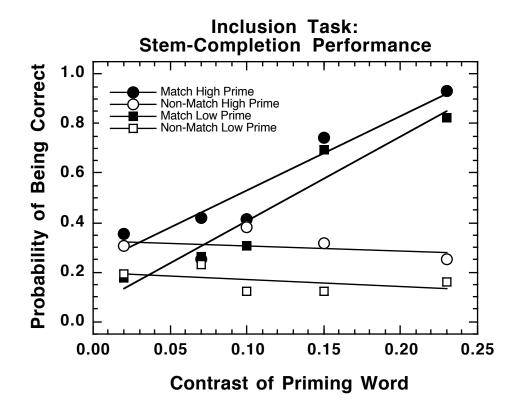
Psychology of Perception Psychology 4165, Spring 2011 Laboratory 4 Group Project



Lewis O. Harvey, Jr.–Instructor Clare E. Sims–Assistant 09:30–9:45 TuTh

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Introduction

With this laboratory you will learn how to go through the various stages of scientific experimentation: from getting ideas for research to completing a finished experiment. You will work in groups to brainstorm about what questions to ask, then to search the recent experimental literature, then to design an appropriate experiment and finally to carry out the experiment and write up the results. You will proceed in six steps:

- 1. The class will be divided into four or five groups. Each group should choose a group leader to keep track of the group discussion by taking notes and then to summarize it to the rest of the class.
- 2. Each group will then discuss for 10 minutes what questions about perception they would want to answer. The group should make a list of the three most interesting questions.
- 3. Each group leader will make a three-minute (maximum) presentation of their group's questions. We will keep track of these ideas by writing them down on the blackboard. At the end of the presentations there will be at least 10 questions. There will then be a class discussion about these ideas. Each person should write down the three questions that most interest him/her.
- 4. The groups will now reconvene and pick one question from the lists of questions compiled by the group members. Each group member should go to the library and locate two papers published within the last ten years related to the question. The papers should be published in one of the journals listed below. Each group member should make copies of these articles for themselves and for of the other group members.
- 5. The group members should read all the articles gathered by their group and discuss these papers among themselves. The purpose of these discussions is to identify a question that can be answered by a relatively simple experiment.
- 6. The group should now design an experiment that will answer the question your group has chosen. Before the experiment is carried out you need to have it approved by the instructor or the TA and you need to have completed your CITI training.

Laboratory Report

The first draft of your lab report should contain **four** of the standard six parts: **Cover Sheet, Introduction, Methods**, Results, Discussion and **References**. In the introduction explain

what the question is that you propose to answer. You should refer to the relevant literature, including the papers that your group has assembled. The **introduction** typically starts out broadly and concludes with the specific question you intend to answer. In the **methods** section describe what you propose to do. Make this section as concrete as possible at this stage. Include a description of the equipment you need and the specific procedure you will follow. Be explicit about what independent variable(s) you will manipulate and what values they will have. Be explicit about the dependent variable(s) you will collect and how you will analyze the data. Include a **reference** list of all the papers you have cited. Use the standard format of the American Psychological Association for citations and references.

Conciseness and clarity are extremely important characteristics of good scientific writing. Strive for them. We will give you feedback on your first draft before you actually start to carry out your experiment. Remember: keep these reports short, clean, and clear.

Suggested Journals

Journal of Experimental Psychology: Human Perception and Performance
Perception and Psychophysics
Vision Research
Perception

CITI Certification

You will be conducting an original experiment that you design. To meet ethical and institutional requirements all students in the class must do an on-line training on issues surrounding the testing and protection of human subjects. The web link below is the place to get started.

http://www.colorado.edu/VCResearch/integrity/humanresearch/index.html

All research involving human participants that is conducted by UCB faculty, staff or students must receive some level of review by the Institutional Review Board (IRB). Information, instructions, and downloadable forms needed to complete the review process can be found at this site. Click here for more information about the IRB.

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All UCB faculty, staff, students, and faculty advisors engaged in research must have current educational certification. Certification is valid for three (3) years. If your certification is due to expire, please complete the Colaborative Institutional Training Initiative (CITI) Program tutorial to maintain your certification. If you have not completed any tutorial, you must complete the CITI Education program prior to obtaining approval to run your experiment.

This web site below gives specific information about how to do the CITI course and how to print your certificate:

http://www.colorado.edu/VCResearch/integrity/humanresearch/CITI.html

Clicking on the URL below will take you to the actual CITI web site:

https://www.citiprogram.org/

When you finish your training, print out your certificate and turn it in to us for our records.

Schedule

7.	22 & 24 Feb 2011	Form Research Project Teams
8.	1 & 3 Mar 2011	Work on Group Projects First draft of project proposal due
		(Cover Page, Introduction, References)
9.	8 & 10 Mar 2011	Work on Group Projects
		Second draft of project proposal due
		(Cover Page, Introduction, Methods, Expected Results, References)
10.	15 & 17 Mar 2011	Work on Group Projects
		Data Collection
11.	22 & 24 Mar 2011	Spring Break
12.	29 & 31 Mar 2011	Work on Group Projects: Data Collection and Analysis
13.	5 & 7 April 2011	Work on Project Presentations
14.	12 & 14 April 2011	Work on Project Presentations
15.	19 & 21 April 2011	Group Project Presentations: Both lab groups meet on Thursday, April 21, 12:30–15:20 (20 points)
16.	26 & 28 April 2011	No regular lab meetings this week
	27 April 2011 (Wednesday)	Undergraduate Research Day, Glenn Miller Ballroom, 15:00-17:00
	28 April 2011 (Thursday)	Final Project Reports Due in Class (40 + 20 points)

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Hints for Making Posters

Posters are more formal than verbal presentations, but you still don't want to have too much material that will clutter the poster and distract the reader from understanding the main points you want to make. It is easy to prepare your posters using PowerPoint. Start up PowerPoint and make a new slide show with a single slide. You will make your poster on this single slide. Go to the File menu and select Page Setup... Choose Custom paper size and set it to 36 inches wide and 24 inches high. The dialog box should look like this:

Below is a sample poster: When making the layout keep the following points in mind:

- The font size of the title should be around 80 points and should fit on one line
- The font for the authors names and affiliation should be around 60 points
- About 1/3 of the area of the poster should be blank
- Use attention-grabbing graphics (a picture is worth a thousand words). The goal is to attract and focus attention on the important parts of your poster.
- Don't make your poster cluttered, put only essentials on it. You want to make it easy for the reader to grasp the main conclusion.

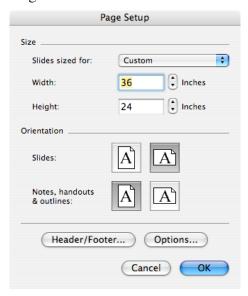
We will print the posters for you here in the department.

So you should concentrate on getting the layout right. Here are two examples of posters from previous classes.

There are excellent web sites giving advice on how to prepare effective posters. My current favorite is at Swarthmore College:

http://www.swarthmore.edu/NatSci/cpurrin1/posteradvice.htm

Look at it carefully and follow their advice.

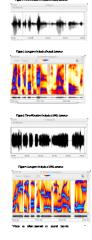


Speech Perception: The Effect of Priming on the Perception of Sine Wave Synthesized Speech Estelle Carlton, Jim <u>Laudin</u>, Kristen Toll & Thu Yen Tran

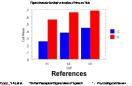
Sponsored by: Lewis O. Harvey, Jr. & Benjamin L. Jacobson PSYC 4165, Department of Psychology



Method



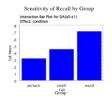
Discussion



Rob. J., Rose, RARdin, P. See View Systems www.locke.com.adu/technolocus/CSVCSNC html



Olfactory Memory and Cognitive Recall
Caitlin Froehlich, Jessica Graham, Jessica LaBudda, Colleen Micalizzi and Jessica Munday
Psychology of Perception (PSYC 4165))
Sponsons: Lewis O. Harvey, Ir. and Beajamin L. Jacobson



References
Blake, R. & Sekuler, R. (2002). Perception. McGra
Hill, 541-592.

Zucco, G. (2002). Anomalies in Cognition: Olfactory Memory. European Psychologist, Vol. 8, No. 2, pp. 77-86.

Results

Conclusions

