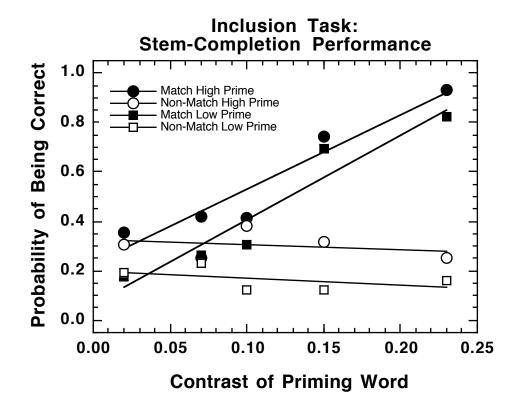
# Psychology of Perception Psychology 4165, Spring 2009 Laboratory 4 Group Project



Psychology of Perception Psychology 4165-100 Spring 2009 Lewis O. Harvey, Jr.–Instructor Clare Sims–Assistant MUEN D156, 09:30–10:45 TR

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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. It will be very helpful during this stage to refer to the relevant chapters of the book *Doing Psychology Experiments* (Martin, 2007). Before the experiment is carried out you need to have it approved by the instructor or the TA.

### **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. **First draft is due at the end of lab on 3 or 5 March 2009** 

### **Suggested Journals**

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

Perception

### Schedule

### 1. 3 and 5 March 2009

First draft of proposal due (Cover Page, Introduction, References)

### 2. 10 and 12 March 2009

Second draft of group proposal due (Cover Page, Introduction, Methods, Anticipated Results and Analyses, References)

### 3. 17 and 19 March 2009

Data Collection

# 4. March 31 and 2 April 2009

Data Collection

# 5. **7 and 9 April 2009**

Data analysis

# 6. 14 and 16 April 2009

Work on research presentations

Turn in PowerPoint file of poster.

# 7. 22 April 2009 (Wednesday) Undergraduate Research Day, 15:00–17:00, UMC

**23 April 2009 (Thursday)** Oral presentations of All Group Projects: Both Laboratory Sections (20 points)

# 8. 28 April 2009 (Tuesday)

Final version of report due. Each group turns in one paper with a Cover page, Introduction, Methods, Results and Reference section. Each member of the group turns in their own discussion section (80 points total: 40 points for group report, 20 points for individual discussion and 20 points for the group presentation.

# References

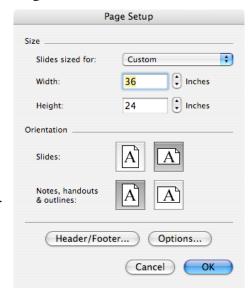
Martin, D. W. (2007). *Doing psychology experiments* (7th ed.). Belmont, CA: Thomson Wadsworth.

# 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.

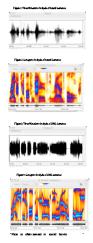


We will print the posters for you here in the department. So you should concentrate on getting the layout right. Here are two examples of posters from previous classes.

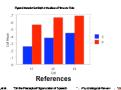
# Speech Perception: The Effect of Priming on the Perception of Sine Wave Synthesized Speech Estelle Carlton, Jim Laudin, Kristen Toll & Thu Yen Tran

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





### Discussion



Rob., J., Robe, R.S. Ratin, P. SewYork Synthesis www.logics. app., applications/SCINGSYS had



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

# Sensitivity of Recall by Group Interaction Bar Plot for DA(s0-s1) Effect: condition smell Cell Group

References er, R. (2002). Percepti

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

### Conclusions

