

# Perception, Memory, and Coordination

**Alexandra Paxton**

paxton.alexandra@gmail.com  
Institute of Cognitive and Brain Sciences  
Berkeley Institute for Data Science  
University of California, Berkeley

**Jordan W. Suchow**

suchow@berkeley.edu  
Social Science Matrix  
University of California, Berkeley

**Thomas J. H. Morgan**

thomas.j.h.morgan@asu.edu  
School of Human Evolution and Social Change  
Arizona State University

**Thomas L. Griffiths**

tom.griffiths@berkeley.edu  
Department of Psychology  
University of California, Berkeley

## Abstract

With cognitive scientists' increasing interest in moving outside of the lab, recent advances in crowdsourcing platforms can help strike a balance between the tight experimental control of lab designs and the affordances of web-based experiments to reach beyond traditional undergraduate subject pools. By taking advantage of new tools, scientists interested in social cognition and behavior can create new designs and adapt traditional ones to deliver experiments at scale. Dallinger is one such tool, providing researchers with an open-source experiment platform that provides end-to-end automation of the experiment pipeline, from participant recruitment and consent to data de-identification and participant compensation. Here we demonstrate how Dallinger can be used to run complex experimental studies of interactive human social behavior, as a demonstration of its potential to study social cognition and behavior using designs drawn from across cognitive science.

**Keywords:** interpersonal interaction; human communication; crowdsourcing; Dallinger

## General Formatting Instructions

For general information about authoring in markdown, see [here](#).

For standard spoken papers and standard posters, the entire contribution (including figures, references, everything) can be no longer than six pages. For abstract posters, the entire contribution can be no longer than one page. For symposia, the entire contribution can be no longer than two pages.

The text of the paper should be formatted in two columns with an overall width of 7 inches (17.8 cm) and length of 9.25 inches (23.5 cm), with 0.25 inches between the columns. Leave two line spaces between the last author listed and the text of the paper. The left margin should be 0.75 inches and the top margin should be 1 inch. **The right and bottom margins will depend on whether you use U.S. letter or A4 paper, so you must be sure to measure the width of the printed text.** Use 10 point Times Roman with 12 point vertical spacing, unless otherwise specified.

The title should be in 14 point, bold, and centered. The title should be formatted with initial caps (the first letter of content words capitalized and the rest lower case). Each author's name should appear on a separate line, 11 point bold, and centered, with the author's email address in parentheses. Under each author's name list the author's affiliation and postal address in ordinary 10 point type.

Indent the first line of each paragraph by 1/8~inch (except for the first paragraph of a new section). Do not add extra vertical space between paragraphs.

## First-Level Headings

First level headings should be in 12 point, initial caps, bold and centered. Leave one line space above the heading and 1/4~line space below the heading.

## Second-Level Headings

Second level headings should be 11 point, initial caps, bold, and flush left. Leave one line space above the heading and 1/4~line space below the heading.

**Third-Level Headings** Third-level headings should be 10 point, initial caps, bold, and flush left. Leave one line space above the heading, but no space after the heading.

## Formalities, Footnotes, and Floats

Use standard APA citation format. Citations within the text should include the author's last name and year. If the authors' names are included in the sentence, place only the year in parentheses, as in (1972), but otherwise place the entire reference in parentheses with the authors and year separated by a comma (Newell & Simon, 1972). List multiple references alphabetically and separate them by semicolons (Chalnick & Billman, 1988; Newell & Simon, 1972). Use the et. al. construction only after listing all the authors to a publication in an earlier reference and for citations with four or more authors.

For more information on citations in R Markdown, see [here](#).

## Footnotes

Indicate footnotes with a number<sup>1</sup> in the text. Place the footnotes in 9 point type at the bottom of the page on which they appear. Precede the footnote with a horizontal rule.<sup>2</sup>

## Figures

All artwork must be very dark for purposes of reproduction and should not be hand drawn. Number figures sequentially,

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<sup>1</sup>Sample of the first footnote.

<sup>2</sup>Sample of the second footnote.

placing the figure number and caption, in 10 point, after the figure with one line space above the caption and one line space below it. If necessary, leave extra white space at the bottom of the page to avoid splitting the figure and figure caption. You may float figures to the top or bottom of a column, or set wide figures across both columns.

### Two-column images

You can read local images using png package for example and plot it like a regular plot using grid.raster from the grid package. With this method you have full control of the size of your image. **Note: Image must be in .png file format for the readPNG function to work.**

You might want to display a wide figure across both columns. To do this, you change the fig.env chunk option to figure\*. To align the image in the center of the page, set fig.align option to center. To format the width of your caption text, you set the num.cols.cap option to 2.

### One-column images

Single column is the default option, but if you want set it explicitly, set fig.env to figure. Notice that the num.cols option for the caption width is set to 1.

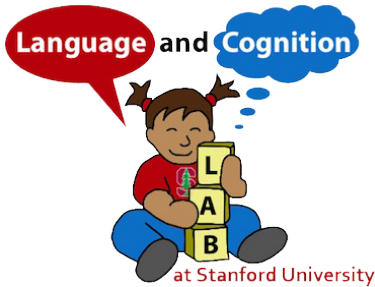


Figure 2: One column image.

### R Plots

You can use R chunks directly to plot graphs. And you can use latex floats in the fig.pos chunk option to have more control over the location of your plot on the page. For more information on latex placement specifiers see [here](#)

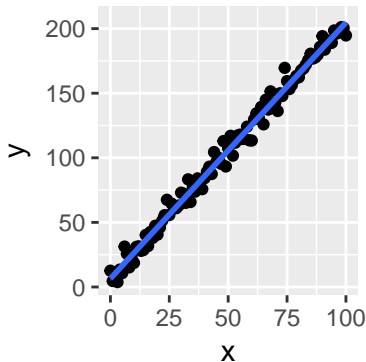


Figure 3: R plot

### Tables

Number tables consecutively; place the table number and title (in 10 point) above the table with one line space above the caption and one line space below it, as in Table 1. You may float tables to the top or bottom of a column, set wide tables across both columns.

You can use the xtable function in the xtable package.

	Estimate	Std. Error	t value	Pr(> t )
(Intercept)	-0.20	0.10	-1.9	0.05
x	2.00	0.10	20.5	0.00

Table 1: This table prints across one column.

### Acknowledgements

Place acknowledgments (including funding information) in a section at the end of the paper.

### References

Chalnick, A., & Billman, D. (1988). Unsupervised learning of correlational structure. In *Proceedings of the tenth annual conference of the cognitive science society* (pp. 510–516). Hillsdale, NJ: Lawrence Erlbaum Associates.

Newell, A., & Simon, H. A. (1972). *Human problem solving*. Englewood Cliffs, NJ: Prentice-Hall.



Figure 1: This image spans both columns. And the caption text is limited to 0.8 of the width of the document.