# Donald J. Kalar

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## Education

Ph.D. Program in Cognitive Neuroscience, September 2004–Present
University of California, Los Angeles

M.A., Cognitive Psychology, June 2006
University of California, Los Angeles

B.S., Cognitive Science, Specialization in Computing, June 2004
University of California, Los Angeles

## Research and Experience

*Lead Designer and Devloper* — **UCLA Neuropsychiatric Institute**
*PubBrain* — **Los Angeles, CA, USA**
**2006–Present**

Development and design of the web search and visualization tool
http://www.pubbrain.org

*Research Assistant* — **UCLA**
*Department of Psychology* — **Los Angeles, CA, USA**
**2002–2004**

Investigation of contour interpolation mechanisms, mental representations of shape, and HCI in the domain of computational decision aides. Supervised under Philip Kellman, Ph.D.

*Software Developer* — **Acrasoft**
**Bakersfield, CA, USA**
**2001–2003**

Windows software development in C++ using MFC and C#, and supported legacy applications developed in Microsoft Access and Visual Basic. Worked in a collaborative environment coordinating with several developers on enterprise application development and deployment.

*Computer Technician* — **UCLA Dept. of External Affairs**
*Network and System Administration* — **Los Angeles, CA, USA**
**1999–2001**

Windows and Novell networking and end-user support. Extensive hardware and software troubleshooting for a department of approximately 500 users.

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## Skills

- Languages: intermediate Spanish
- Computer Skills: Matlab, Mathematica, R, Java, C, C#, C++, Perl, Ruby, Lisp, Scheme, Linux, Unix, LaTeX, HTML, Javascript
- Expert knowledge of the OS X operating system and related applications.
- Intermediate knowledge of fMRI analysis methods using SPM and FSL.

## Organizations

- Member, Vision Sciences Society, 2003–Present

## Honors

- Hispanic National Merit Scholar

## Teaching

### Teaching Assistant

Psychology 120A, Su 2005 - *Cognitive Psychology*
(48 Students, 9.0/9.0 Median Rating)

Psychology 186C, F 2005 - *Psychophysical Methods & Signal Detection Theory*
(13 Students, 9.0/9.0 Median Rating)

Psychology 10, W 2006 - *Introduction to Psychology*
(263 Students, 8.0/9.0 Median Rating)

Psychology 121, F 2006 - *Cognitive Laboratory (Special Topic: fMRI)*
(In Progress)

## Publications

### Submitted Papers

Kalar, D.J., Garrigan, P., Wickens, T.D., Hilger, J.D., & Kellman, P.J. *A Computational Model of Illusory and Occluded Contour Interpolation.*

### Working Papers

Kalar, D.J., Poldrack, R.A., Bilder, R., Parker D.S., Torvik, V., & Smalheiser, N. *PubBrain: A Literature Exploration and Visualization Tool.*

Kalar, D.J., Garrigan, P., & Kellman, P.J. *Popout Search Effects Driven by an Invariant Shape Property.*

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## Presentations

### Posters

Kalar, D. J., Garrigan, P., & Kellman, P. J., (2005). *Second-order Contour Discontinuities in Segmentation and Shape Representation* [Abstract]. Journal of Vision, 5(8), 212a, http://journalofvision.org/5/8/212/, doi:10.1167/5.8.212.

Kalar, D. J., Garrigan, P., Kellman, P. J., Wickens, T. D., Hilger, J. D., & Shipley, T. F. (2004). *A unified operator for contour interpolation* [Abstract]. Journal of Vision, 4(8), 791a, http://journalofvision.org/4/8/791/, doi:10.1167/4.8.791.

### Techincal Reports

Hummel, J.E., Holyoak, K.J., Green, C., Doumas, L.A.A., Devnich, D., Kittur, A., & Kalar, D.J. (2004). *A Solution to the Binding Problem for Compositional Connectionism.* In S.D. Levy & R. Gayler: Compositional Connectionism in Cognitive Science: Papers from the AAAI Fall Symposium [Technical Report FS-04-03] (pp. 31-34). Menlo Park, CA: AAAI Press.

### Talks

Kellman, P. J., Garrigan, P. B., Kalar, D., & Shipley, T. F. (2003). *Good continuation and relatability: Related but distinct principles* [Abstract]. Journal of Vision, 3(9), 120a, http://journalofvision.org/3/9/120/, doi:10.1167/3.9.120.