

## JORDAN WILLIAM SUCHOW

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<http://suchow.io>

### ACADEMIC EMPLOYMENT

2014— University of California, Berkeley  
Institute of Cognitive and Brain Sciences  
*Postdoctoral fellow*  
Advisor: Tom Griffiths

### EDUCATION

2014 Harvard University  
Department of Psychology  
*Ph.D. in Psychology*  
Advisor: George Alvarez

2012 Harvard University  
*A.M. in Psychology*

2009 Brandeis University  
*B.S. in Computer Science*

—2008 New York University  
Center for Neural Science  
*Research Assistant*  
Advisor: Denis Pelli

### PAPERS

Reprints available at <http://suchow.io>.

1. Suchow, J. W. (*in press*). Building a social network one choice at a time. *PLOS ONE*.
2. Fan, J. E., & Suchow, J. W. (2014). The crowd is self-aware. Commentary on “Mapping collective behavior in the big-data era.” *Behavioral and Brain Sciences*, 37(01), 81-82.
3. Suchow, J. W., Fougny, D., Brady, T. F. & Alvarez, G. A. (2014). Terms of the debate on the format and structure of visual memory. *Attention, Perception, & Psychophysics*. doi:10.3758/s13414-014-0690-7
4. Suchow, J. W.\*, Brady, T. F.\*, Fougny, D., & Alvarez, G. A. (2013). Modeling visual working memory with the MemToolbox. *Journal of Vision*, 13(10):9.

5. Suchow, J. W. & Pelli, D. G. (2012). Learning to detect and combine the features of an object. *Proceedings of the National Academy of Sciences*.
6. Fougny, D., Suchow, J. W., & Alvarez, G. A. (2012). Variability in the quality of visual working memory. *Nature Communications*, 3(1229), 1–8.
7. Suchow, J. W. & Alvarez, G. A. (2011). Motion silences awareness of visual change. *Current Biology*, 21, 140–143.

#### MANUSCRIPTS (SUBMITTED & BEYOND)

Drafts of the following are available on request; send an email to [suchow@berkeley.edu](mailto:suchow@berkeley.edu).

Suchow, J. W., Allen, B., Nowak, M. A. & Alvarez, G. A. (submitted). Evolutionary dynamics of visual memory.

Suchow, J. W., Fougny, D. & Alvarez, G. A. (submitted). Looking inwards and back: realtime monitoring of visual working memory.

#### CHAPTERS / ESSAYS / FICTION

Suchow, J. W. (2011). A specific policy on authorship. *Nature*, 477, 244.

Suchow, J. W. (2005). Seeing things: Visual perception research at NYU. *Imagine Magazine*, March 2005.

Suchow, J. W. and Alvarez, G. A. (in press). Silencing the awareness of change. *The Oxford Compendium of Visual Illusions*. Oxford: Oxford University Press.

#### CONFERENCE PRESENTATIONS AND TALKS

Suchow, J. W., Morgan, T. J. H., Hamrick, J., Pacer, M., Meylan, S. C. & Griffiths, T. L. (2015). Wallace: A platform for simulating cultural evolution in structured populations online. Presented as a talk at the *Crowdsourcing and Online Behavioral Experiments* workshop at the *ACM Conference on Economics and Computation*.

Suchow, J. W. & Alvarez, G. A. (2014). The more you try to remember, the faster you forget: Load dependent forgetting and overreaching. Presented as a talk at the *Vision Sciences Society* conference in St. Petersburg, FL.

Suchow, J. W. (2013). Maintaining memories in a partially observable mind. Presented as an invited talk at the *Visual Attention Seminar* at Brigham & Women's Hospital.

Suchow, J. W., Allen, B., Nowak, M. A. & Alvarez, G. A. (2013). Evolutionary dynamics of visual memory. Presented as a poster at the *Vision Sciences Society* conference in Naples, FL.

Herman, L., Suchow, J. W., & Alvarez, G. A. (2013). Frequency-based synesthetic associations between letters and colors. Presented as a poster at the *Vision Sciences Society* conference in Naples, FL.

Fougnie, D., Suchow, J. W., & Alvarez, G. A. (2013). Gradual decay and death by natural causes in visual working memory. Presented as a poster at the *Vision Sciences Society* conference in Naples, FL.

Alvarez, G. A., Brady, T. F., Fougnie, D. & Suchow, J. W. (2013). Beyond slots vs. resources. Presented as a talk in the symposium *The structure of visual working memory* at the *Vision Sciences Society* conference in Naples, FL.

Herman, L., Suchow, J. W., & Alvarez, G. A. (2013). Frequency-based synesthetic associations between letters and colors. Presented as a poster at the *Seventeenth International Conference on Cognitive and Neural Systems* in Boston, MA.

Brady, T. F., Suchow, J., Fougnie, D. & Alvarez, G. A. (2012). MemToolbox: A MATLAB toolbox for analyzing visual working memory experiments. Presented as a poster the *Portland Working Memory Conference*, Portland, OR.

Fougnie, D., Suchow, J. W., & Alvarez, G. A. (2012). Gradual decay and death by natural causes in visual working memory. Presented as a poster at the *Portland Working Memory Conference*, Portland, OR.

Suchow, J. W., Fougnie, D., & Alvarez, G. A. (2012). Visual working metamemory. Presented as a poster at the *Vision Sciences Society* conference in Naples, FL.

Fougnie, D., Suchow, J. W., & Alvarez, G. A. (2012). The volatility of working memory. Presented as a talk at the *Vision Sciences Society* conference in Naples, FL.

Suchow, J. W. (2012). Metamemory and evolutionary dynamics in cognitive processes. Presented as a talk at the *Cognition, Brain, and Behavior Seminar* at Harvard.

Fougnie, D., Suchow, J. W., & Alvarez, G. A. (2011). Variable precision among working memory representations. Presented as a talk at the *Object Perception, Attention, & Memory* conference in Seattle, WA.

Suchow, J. W. & Alvarez, G. A. (2011). Background motion silences awareness of foreground change. Presented as a poster at *SIGGRAPH* in Vancouver, Canada.

🏆 *Semifinalist*, ACM Student research competition

Suchow, J. W. & Alvarez, G. A. (2011). Silencing awareness of change by background motion. Presented as a poster at the 15th annual meeting of the *Association for the Scientific Study of Consciousness* in Kyoto, Japan.

Haberman, J., Suchow, J. W., & Alvarez, G. A. (2011). The visual system adapts to mean orientation. Presented as a poster at the *Vision Sciences Society* conference in Naples, FL.

Suchow, J. W., & Alvarez, G. A. (2011). Which kinds of motion silence awareness of visual change? Presented as a poster at the *Vision Sciences Society* conference in Naples, FL.

Suchow, J. W., & Alvarez, G. A. (2010). Silent updating: cross-dimensional change suppression. *Journal of Vision*, 10(7), 299. Presented as a talk at the *Vision Sciences Society* conference in Naples, FL.

Suchow, J. W., & Pelli, D. G. (2008). Letter learning: feature detection and combination. *Journal of Vision*, 9(6), 1133. Presented as a poster at the *Vision Sciences Society* conference in Naples, FL.

Suchow, J. W. (2006). Feature integration during letter learning. Presented as a talk at *The Leadership Alliance* national symposium in Chantilly, VA. Also presented at the *NYU Summer Undergraduate Research Symposium* in New York, NY.

Suchow, J. W., & Pelli, D. G. (2005). Learning to identify letters: Generalization in high-level perceptual learning. *Journal of Vision*, 5(8), 712. Presented as a poster at the *Vision Sciences Society* conference in Sarasota, FL.

## DEMOS

1. "Reflections on a true mirror."  
(with Jason Haberman)  
To be presented at the Vision Sciences Society's *Demo Night* in 2013.
2. "Touching and interpreting hallucinated patterns in dynamic visual noise."  
(with Justin Jungé and George Alvarez)  
Presented at the Vision Sciences Society's *Demo Night* in 2012.
3. "Disembodied eyes and mouth illusion." See [visionlab.harvard.edu/upsidedown/](http://visionlab.harvard.edu/upsidedown/).  
(with Ken Nakayama and Maryam Vaziri-Pashkam)  
Presented at the Vision Sciences Society's *Demo Night* in 2011.
4. "Silencing." See <http://visionlab.harvard.edu/silencing/>.  
(with George Alvarez)  
Presented at the Vision Sciences Society's *Demo Night* in 2010.  
🏆 1<sup>st</sup> prize, Neural Correlate Society's 2011 *Best visual illusion of the year* contest

## FELLOWSHIPS / AWARDS

- 2014 🏆 NSF Postdoctoral Research Fellowship, awarded under the *Directorate for Social, Behavioral & Economic Sciences*, for project "The dynamics of updating and transmitting individual and collective memories" (\$172,425, Co-PI w/ Tom Griffiths, UC Berkeley).
- 2011 🏆 *Mind, Brain & Behavior Graduate Student Award*, Harvard University
- 2009–2012 🏆 *Sosland Fellow*, Harvard University
- 2005–2009 🏆 *Presidential Scholar*, Brandeis University
- 2005 🏆 *Semifinalist*, Intel Science Talent Search (formerly, Westinghouse STS)

## TEACHING / MENTORING

@ UC Berkeley:

2015 *Lecturer*, 2 sections of Computational models of cognition, taught by Tom Griffiths

@ Harvard:

2013 *Instructor*, Contemporary issues in psychology: intensive cross-level analysis

✎ Derek Bok Center teaching award

✎ George W. Goethals teaching award

2013 *Mentor* for two high school students participating in the Intel Science Talent Search

2012 *Teaching fellow*, 2 sections of Psychological science, taught by Dan Gilbert

2012 *Instructor*, Contemporary issues in psychology: intensive cross-level analysis

✎ George W. Goethals teaching award

2012 *Teaching fellow*, MATLAB programming for behavioral testing, taught by George Alvarez

2011 *Teaching fellow*, 2 sections of Psychological science, taught by Dan Gilbert

Training:

2011 Instructional styles in psychology, PSY-5330

## TRAINING

2014 Participant in a 2-week graduate summer school on brains, minds and machines at the *Marine Biological Laboratory* in Woods Hole, organized by the *Center for Brains, Minds, and Machines*.

2011 Participant in a 2-week graduate summer school in probabilistic models of cognition at UCLA's *Institute for Pure & Applied Mathematics*, organized by Josh Tenenbaum, Noah Goodman, and Alan Yuille.

2006 NSF Research Experience for Undergraduates, at New York University

2006 The Leadership Alliance Early Identification Summer Research Program

2003–2005 Columbia University Science Honors Program

## MEDIA COVERAGE

Suchow & Pelli (2012) was covered in an interview by *Medical Xpress*.

Suchow & Alvarez (2011) was covered by *Scientific American*, *New Scientist*, The Washington Post, Slashdot, Gizmodo, Wired.co.uk and .it, MSNBC, CVC Radio, CBS, *Sciences et avenir*, and others. As of 2014, the official demo page had been seen by 150,000 visitors and the YouTube demos had been played 2,000,000 times. *The Exploratorium*, a museum of science, art, and human perception in San Francisco, runs a physical installation of silencing.

Interview with *Nerve.com* published as 'Sex advice from neuroscientists' in June 2009.

#### PROFESSIONAL SERVICE / OUTREACH

- 2012 Judge, Neural Correlate Society's 2012 *'Best visual illusion of the year contest'*
- 2011–2013 Editorial board of *The New School Psychology Bulletin*
- 2011–2013 Scientific advisor to Pubget, Inc.
- 2011–2012 e-print committee of the *Association for the Scientific Study of Consciousness*

*Ad hoc* reviewer for:

*Attention, Perception, & Psychophysics,*  
*Cognition,*  
*Frontiers in Human Neuroscience,*  
*Journal of Cognitive Psychology,*  
*Journal of Comparative Psychology,*  
*Journal of Experimental Psychology: Human Perception and Performance,*  
*Journal of Experimental Psychology: Learning, Memory, and Cognition*  
*Journal of the Optical Society of America A,*  
*Journal of Vision,*  
PLOS ONE,  
*Perception,*  
*Psychological Research,*  
*Psychological Science,*  
*Psychonomic Bulletin & Review,* and  
*The New School Psychology Bulletin.*

Member of the Vision Sciences Society, American Psychological Association, Cognitive Science Society, and the Association for Computing Machinery.

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via <http://suchow.io>