

JORDAN WILLIAM SUCHOW

suchow@berkeley.edu

<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. 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.
2. 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
3. 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.

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

MANUSCRIPTS (SUBMITTED & IN PRESS)

Drafts of the following are available on request; send an email to suchow@berkeley.edu.

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

Suchow, J. W., Fougner, 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. & 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/.
(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.
🏆 1st 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

@ 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 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>