

JORDAN WILLIAM SUCHOW

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<http://jwsu.ch/ow/>

EDUCATION

- 2009— Harvard University
PhD candidate in psychology (cognition, brain, & behavior)
Advisor: Prof. George Alvarez
- 2012 Harvard University
AM in psychology
- 2009 Brandeis University
BS in computer science

PAPERS

For reprints, please visit <http://jwsu.ch/ow/>.

1. Suchow, J. w. & Pelli, D. G. (2012). Learning to detect and combine the features of an object. *Proceedings of the National Academy of Sciences*. doi:10.1073/pnas.1218438110
2. Fougne, D., Suchow, J. w., & Alvarez, G. A. (2012). Variability in the quality of visual working memory. *Nature Communications*, 3(1229), 1–8.
3. Suchow, J. w. & Alvarez, G. A. (2011). Motion silences awareness of visual change. *Current Biology*, 21, 140–143. doi:10.1016/j.cub.2010.12.019
4. Suchow, J. w.*, Brady, T. F.*, Fougne, D., & Alvarez, G. A. (*in press*). Modeling visual working memory with the MemToolbox. *Journal of Vision*. <http://memtoolbox.org>.

MANUSCRIPTS

Suchow, J. w., Allen, B., Nowak, M. A. & Alvarez, G. A. (*in progress*). Evolutionary dynamics of visual memory.

Suchow, J. w. (*in progress*). Building a social network one choice at a time.

Suchow, J. w., Fougne, D. & Alvarez, G. A. (*in progress*). Looking inwards and back: the contribution of realtime monitoring to judgements of confidence in memory

CHAPTERS / ESSAYS / FICTION

Fan, J. E. and Suchow, J. W. (*in press*). The crowd is self-aware. Commentary on “Mapping collective behavior in the big-data era”. *Behavioral and Brain Sciences*.

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

♠♥ Finalist, 5th Annual Micro Award

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.

Suchow, J. W. (January, 2013). Radiolab, tetrachromacy, and the demands of responsible experimentation. *Self-published essay*.

CONFERENCE PRESENTATIONS / TALKS

1. 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.
2. 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.
3. Fougny, 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.
4. Alvarez, G. A., Brady, T. F., Fougny, 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.
5. 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.
6. Brady, T. F., Suchow, J., Fougny, D. & Alvarez, G. A. (2012). MemToolbox: A MATLAB toolbox for analyzing visual working memory experiments. Poster presented at the *Portland Working Memory Conference*, Portland, OR.
7. Fougny, D., Suchow, J. W., & Alvarez, G. A. (2012). Gradual decay and death by natural causes in visual working memory. Poster presented at the *Portland Working Memory Conference*, Portland, OR.
8. Suchow, J. W., Fougny, D., & Alvarez, G. A. (2012). Visual working metamemory. Presented as a poster at the *Vision Sciences Society* conference in Naples, FL.

9. 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.
10. Suchow, J. W. (2012). Metamemory and evolutionary dynamics in cognitive processes. Presented as a talk at the *Cognition, Brain, and Behavior Seminar* at Harvard.
11. Fougny, 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.
12. 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
13. 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.
14. 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.
15. 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.
16. 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.
17. 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.
18. 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.
19. 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 <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.
✎ 1st prize, Neural Correlate Society’s 2011 *Best visual illusion of the year contest*

FELLOWSHIPS / AWARDS

- 2011 ✎ *Mind, Brain & Behavior Graduate Student Award*, Harvard University
- 2009— ✎ *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
- 2012 *Teaching fellow*, 2 sections of Psychological science, taught by Dan Gilbert
- 2012 *Instructor*, Contemporary issues in psychology: intensive cross-level analysis
- 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

- 2012 MIT 9.777 *Computational perception*, taught by Ted Adelson and Aude Oliva
- 2011 MIT 9.915 *Computational cognitive science*, taught by Josh Tenenbaum
- 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.
- 2003–2008 Junior Research Scientist at New York University
Advisor: Prof. Denis Pelli, Psychology and Neural Science
- 2006 NSF Research Experience for Undergraduates, at New York University
- 2006 The Leadership Alliance Early Identification Summer Research Program

MEDIA COVERAGE

Suchow & Alvarez (2011) was covered by *Scientific American*, The Washington Post, Slashdot, Gizmodo, *New Scientist*, Wired.co.uk and .it, MSNBC, CBC Radio, CBS, *Sciences et avenir*, and others. As of 5/21/2012, the official demo page had been seen by 142,000 visitors and the YouTube demos had been played 1,900,000 times. *The Exploratorium*, a museum of science, art, and human perception in San Francisco, ran a physical installation of silencing.

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

Interviewed by *Nerve.com* for ‘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— Editorial board of *The New School Psychology Bulletin*
- 2011— Scientific advisor to Pubget, Inc.
- 2011–2012 e-print committee of the *Association for the Scientific Study of Consciousness*

I created Figured (<http://figured.io>), a science+arts organization that’s helping to make science communication even more beautiful, lucid, and intelligible by means of thoughtful design.

Ad hoc reviewer for:

Attention, Perception, & Psychophysics,
Cognition,
Journal of Comparative Psychology,
Journal of the Optical Society of America A,
Journal of Vision, 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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