

Steven L. Franconeri

Department of Psychology
Northwestern University
2029 Sheridan Rd, Evanston, IL, 60208-2710
<http://www.psych.northwestern.edu/~franconeri/>
franconeri@northwestern.edu 847.467.1259

Education

2004	Harvard University	Ph.D. in cognitive psychology
2001	Harvard University	M.A. in cognitive psychology
1999	Rutgers University	B.A. in cognitive science and computer science

Research Postions

2006 - Present	Assistant Professor of Psychology, Northwestern University
2004 - 2006	Killam Postdoctoral Fellow, University of British Columbia
1999 - 2004	Graduate Student (NDSEG Fellowship), Harvard University Advisors: Daniel J. Simons & Ken Nakayama
1996 - 1999	Research Assistant, Rutgers University Advisor: Zenon Pylyshyn Designed and implemented visual attention experiments
1998	ATR Human Information Processing Labs, Kyoto, Japan Designed and programmed neural network systems
1997 - 1998	Research Assistant, Rutgers University. Advisor: Sven Dickinson Programmed shape recognition software

Academic Awards and Honors

2004-2006	Izaak Walton Killam Memorial Postdoctoral Fellowship
2001-2004	National Defense Science and Engineering Graduate Fellowship
2001	Harvard Certificate of Distinction in Teaching (Vision & Brain)
2000	Harvard Certificate of Distinction in Teaching (Cognitive Psych)
1999	Phi Beta Kappa & Golden Key National Honor Society
1995-1999	Rutgers College Dean's List
1997	Rutgers College Merit Scholarship

Publications

Hollingworth, A., Franconeri, S. L., & Simons D. J. (under revision). New objects do not capture attention without a sensory transient.

Franconeri, S. L., Alvarez, G. A., & Bemis, D. K. (under revision). It takes attention to capture attention.

Alvarez, G. A. & Franconeri, S. L. (under revision). The allocation of visual short-term memory capacity: Evidence for a flexible storage mechanism.

Alvarez, G. A. & Franconeri, S. L. (under revision). The spatial resolution of visual short-term memory.

Bemis, D. K., Franconeri, S. L., & Alvarez, G. A. (revision submitted). Rapid number estimation is based on a segmented visual scene.

Brockmole, J. R. & Franconeri, S. L. (in press). Introduction to the special issue on Binding. *Visual Cognition*.

Franconeri, S. L., Lin, J. Y., Pylyshyn, Z. W, Fisher, B. F. , & Enns, J. T. (in press). Evidence against a speed limit in multiple object tracking. *Psychonomic Bulletin & Review*.

Alvarez, G. A. & Franconeri, S. L. (in press). How many objects can you track? Evidence for a resource-limited tracking mechanism. *Journal of Vision*.

Lin, J., Franconeri, S. L., & Enns, J. T. (in press). Objects on a collision path with the observer demand attention. *Psychological Science*.

Franconeri, S. L. (in press). Attention Capture. In Matsumoto, D. (Ed.), *The Cambridge Dictionary of Psychology*. Cambridge University Press.

Franconeri, S. L., Alvarez, G. A., & Enns, J. T. (2007) How many locations can you select? *Journal of Experimental Psychology: Human Perception & Performance* 33(5), 1003-1012.

Simons, D. J., Mitroff, S. R., & Franconeri, S. L. (2006). Implicit and explicit representations in scene perception. In M. Peterson & G. Rhodes (Eds.), *Analytic and holistic processes in the perception of faces, objects, and scenes*.

Franconeri, S. L. & Simons, D. J. (2005). What dynamic signals capture attention: A reply to Abrams & Christ (2005). *Perception & Psychophysics* 67(6), 962-966.

Franconeri, S. L., Hollingworth, A., & Simons, D. J. (2005). Do new objects capture attention? *Psychological Science*, 16(4), 275-281.

Franconeri, S. L., Simons, D. J., & Junge, J. A. (2004). Searching for stimulus-driven shifts of attention. *Psychonomic Bulletin & Review*, 11(5), 876-881.

Franconeri, S. L. & Simons, D. J. (2003). Moving and looming stimuli capture attention. *Perception & Psychophysics*, 65(6), 1-12.

Mitroff, S. R., Simons, D.J., & Franconeri, S. L. (2002). The siren song of implicit change detection. *Journal of Experimental Psychology: Human Perception and Performance*, 28(4), 798-815.

Simons, D. J., Franconeri, S. L., & Reimer, R. L. (2000). Change blindness in the absence of a visual disruption. *Perception*, 29, 1143-1154.

Articles in preparation

Franconeri, S. L., Alvarez, G. A., Kam, N, Mok, P., & Enns, J. T. (in preparation). Mechanisms of multiple location selection: Wearing many Mexican hats.

Hollingworth, A. & Franconeri, S. L. (in preparation). Object specific priming can follow features.

Franconeri, S. L., Nelson, J., & Chiao, J. Y. (in preparation). Characteristic fixation patterns when judging different emotions in faces.

Lau, C., Franconeri, S. L., & Chiao, J. Y. (in preparation). Gazing at the Emotionally Expressive Side of a Face Makes You Appear More Socially Intelligent

Franconeri, S. L. & Bemis, D. K.. (in preparation). Feature grouping is selection.

Franconeri, S. L., Pylyshyn, Z. W., & Scholl, B. J. (in preparation). Spatiotemporal cues for tracking multiple objects through occlusion

Franconeri, S. L. & Handy, T. C. (in preparation). Spatial relations are represented as a sequence over time: Evidence from electrophysiology.

Franconeri, S. L. & Alvarez, G. A. (in preparation). The magic number 4 in visual attention.

Franconeri, S. L., Simons, D. J., & Alvarez, G. A. (in preparation). Gone in 16 milliseconds: The capacity limit of visual memory is not due to decay over time.

Franconeri, S. L. (in preparation). Attentional Limits. *Handbook of Medical Decision Making*.

Edited Volumes

Brockmole, J. R., & Franconeri, S. L. (Eds.) (in press). *Binding: A Special Issue of the Journal Visual Cognition*. New York: Psychology Press.

Presentations

Choo, H. & Franconeri, S. L. (2008). Visual averaging and object substitution masking. *Vision Sciences Society*, Naples, FL.

- Alvarez, G. A. & Franconeri, S. L. (2008). The magical number 4 in visual attention. *Vision Sciences Society*, Naples, FL.
- Franconeri, S. L., & Bemis, D. K. (2008). Feature grouping is selection. *Vision Sciences Society*, Naples, FL.
- Lau, C., Franconeri, S. L., & Chiao, J. Y. (2008). Gazing at the Emotionally Expressive Side of a Face Makes You Appear More Socially Intelligent. *American Psychological Society*, Chicago, IL.
- Bebko, G.M., Chiao, J.Y. Franconeri, S.L. (2008). Identifying emotionally salient areas within complex scenes: Validation of an area-of-interest approach. *Midwestern Psychological Association*, Chicago, IL.
- Bebko, G.M., Franconeri, S.L., Ochsner, K.N., Chiao, J.Y. (2008). Perceptual differences in the use of multiple emotion regulation strategies. *Cognitive Neuroscience Society*, San Francisco, CA.
- Bebko, G.M., Franconeri, S.L., Ochsner, K.N., Chiao, J.Y. (2008). Sex differences in the use of multiple emotion regulation strategies. *Society for Personality and Social Psychology*, Albuquerque, N.M.
- Franconeri, S. L. & Handy, T. C. (2007). Spatial relations are represented as a sequence over time: Evidence from electrophysiology. *Psychonomics 2007*
- Franconeri, S. L. & Handy, T. C. (2007). Serial shifts of attention during spatial relationship judgments. *Vision Sciences 2007*.
- Lin, J., Franconeri, S. L., & Enns, J. T. (2007). Object action captures attention: A test of the behavioral threat hypothesis. *Vision Sciences 2007*.
- Chiao, J. Y. & Franconeri, S. L. (2007). Women, but not men, prefer to fixate on the right side of a face. *Vision Sciences 2007*.
- Nelson, J., Franconeri, S. L., & Chiao, J. Y. (2007). Looking for emotion in facial expressions: fixation patterns are emotion-specific. *Vision Sciences 2007*.
- Franconeri, S. L., Pylyshyn, Z. W., & Scholl, B. J. (2006). Spatiotemporal cues to object continuity across occlusion. *Vision Sciences 2006*
- Franconeri, S. L., Pylyshyn, Z. W., & Scholl, B. J. (2005). Tracking object identity across occlusion. *Object Perception & Memory 2005*.
- Franconeri, S. L., Alvarez, G. A., & Enns, J. (2005). How many locations can you select? *Vision Sciences 2005*.
- Bemis, D. K., Franconeri, S. L., & Alvarez, G. A. (2005). It takes attention to capture attention. *Vision Sciences 2005*.
- Alvarez, G. A., & Franconeri, S. L. (2005). How many objects can you track? *Vision Sciences 2005*.
- Franconeri, S. L., Alvarez, G. A., & Enns, J. (2004). The capacity limitations of spatial memory. *Object Perception & Memory 2004*.

Franconeri, S. L., Halberda, J. H., Feigenson, L., & Alvarez, G. A. (2004). The shape of attention around a common motion object. *Vision Sciences* 2004.

Franconeri, S. L., Hollingworth, A., & Simons, D. J. (2003). Do new objects capture attention? *Object Perception & Memory* 2003.

Franconeri, S. L., & Simons, D. J. (2003). Searching for stimulus-driven attention capture. *Vision Sciences* 2003.

Franconeri, S. L., & Simons, D. J. (2002). Attention capture can occur without top-down influences. *Vision Sciences* 2002.

Franconeri, S. L., & Simons, D. J. (2002). Salvaging attention capture. *Eastern Psychological Association* 2002.

Franconeri, S. L., & Simons, D. J. (2001). Not just abrupt onset: Disoccluding and looming objects capture attention. *Vision Sciences* 2001.

Franconeri, S. L., & Simons, D. J. (2000). Detecting gradual changes to simple displays. *Object Perception & Memory* 2000.

Franconeri, S. L., & Simons, D. J. (2000). The role of abstract representations and motion signals in change detection. *Association for Research in Vision and Ophthalmology* 2000.

Invited talks

Sept 2007	Notre Dame University	<i>Cognitive Psychology</i>
July 2007	Peking University, Beijing	<i>Cognitive Psychology</i>
July 2007	Beijing Normal University	<i>Cognitive Psychology</i>
May 2007	Vrije University, Amsterdam	<i>Dept. of Psychology Cognitive Group</i>
April 2007	Univ Illinois Urbana-Champaign	<i>Cognitive Psychology</i>
April 2007	University of Chicago	<i>Cognitive Psychology</i>
Mar 2006	Northwestern University	<i>Departmental Colloquium</i>
Mar 2006	Cornell University	<i>Departmental Colloquium</i>
Feb 2006	University of Wisconsin, Madison	<i>Departmental Colloquium</i>
Jan 2006	University of Pittsburgh	<i>Departmental Colloquium</i>
Jan 2006	Queen's University	<i>Departmental Colloquium</i>
Dec 2005	University of Delaware	<i>Departmental Colloquium</i>
Nov 2005	Johns Hopkins University	<i>Cognitive Psychology</i>
Feb 2005	UMass Boston	<i>Cognitive Psychology</i>
Feb 2005	Harvard University	<i>Cognition, Brain, & Behavior</i>
Feb 2005	University of Victoria	<i>Cognitive Psychology</i>
Oct 2004	University of British Columbia	<i>Visual Attention & Cognition Groups</i>
May 2004	Massachusetts General Hospital	<i>Martinos Biomedical Imaging Center</i>
May 2004	M.I.T.	<i>Brain & Cognitive Sciences</i>

Jan 2003	Vrije University, Amsterdam	<i>Dept. of Psychology Cognitive Group</i>
Nov 2003	Harvard University	<i>Laboratory for Developmental Studies</i>
Mar 2001	Harvard University	<i>Cognition, Brain, & Behavior</i>

Editorial Boards

Perception & Psychophysics
 Psychonomic Bulletin & Review
 Visual Cognition

Ad-Hoc Reviewer

Cognition
 Cognitive Development
 Human Communication Research
 Experimental Psychology
 Journal of Experimental Psychology: Human Perception & Performance
 Journal of Experimental Psychology: Learning, Memory, & Cognition
 Journal of Vision
 NeuroImage
 NeuroPsychologia
 Perception
 Perception & Psychophysics
 Philosophical Psychology
 Psychological Science
 Psychonomic Bulletin & Review
 Quarterly Journal of Experimental Psychology
 Visual Cognition

Teaching

Winter 2008	Practical experiment building
Fall 2007	Cognitive Psychology
Fall 2006	Visual attention & memory
Fall 2006	High level vision: From attention to aesthetics.
Fall 2003	Teaching Fellow, Experimental Neuroscience of Motion
Spring 2002	Head Teaching Fellow, Vision & the Brain
Sept 2001	Led Harvard's Bok Center for Teaching & Learning Seminar on "Teaching science to non-scientists"
Spring 2001	Teaching Fellow, Vision & the Brain
Fall 2000	Teaching Fellow, Cognitive Psychology
2001-Present	Advisor to dozens of undergraduate & thesis students

Professional Service

- 2007- Committee on Undergraduate Education, Northwestern Psychology
- 2007- Cognitive Science Program, Northwestern University
- 2007- Advisor to 2 *Illinois Math & Science Academy* students per year.
- 2003-2004 Organizer of Harvard Cognition, Brain, & Behavior Colloquia
- 2001-2004 Resident Tutor in Psychology, Pforzheimer House, Harvard
- 2000-2001 Graduate Resident Advisor, Perkins Hall, Harvard
- 1997-1999 Founder & President, Rutgers Undergraduate Cognitive Science Society
- 1996-1998 Editor of internet edition of *The Daily Targum* (Rutgers' student newspaper)