

HARRY HAROUTIOUN HALADJIAN, PH.D.

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EDUCATION

Rutgers University, New Brunswick, NJ

- 2008 – 2011 Ph.D., Cognitive Psychology (Cognitive Science Certificate; Perceptual Science Training Program)
Advisors: Dr. Zenon Pylyshyn (chair), Dr. C. Randy Gallistel, Dr. Manish Singh, & Dr. Fabien Mathy
Dissertation: *Enumerating by pointing to locations: The role of spatial information in counting.*
- 2005 – 2008 M.S., Cognitive Psychology
Advisor: Dr. Zenon Pylyshyn
Thesis: *Object-specific priming benefit enhanced during explicit multiple object tracking.*

Stanford University Continuing Studies, Stanford, CA

- 1998 – 2004 Courses in the humanities, neuroscience, and computer applications

Boston College, Chestnut Hill, MA

- 1991 – 1995 B.A., Philosophy and Psychology

AWARDS & FELLOWSHIPS

- 2010 Robert J. Glushko & Pamela Samuelson Foundation Student Travel Award (Cognitive Science Society)
- 2008 – 2010 National Science Foundation Graduate Traineeship in Perceptual Science (IGERT)
- 2009 CODDE Computational Vision Workshop in Marburg, Germany (funded participant)
- 2007 & 2009 Rutgers University Conference Travel Award
- 2005 – 2006 Rutgers University Graduate Fellowship

RESEARCH & PROFESSIONAL EXPERIENCE

Visual Attention Lab, Rutgers Center for Cognitive Science, New Brunswick, NJ

- 2005 – present *Lab Manager / Research Assistant (25-50% Full Time Equivalent (FTE))*
Designed and implemented psychophysical experiments in MATLAB to test attentional processes in early vision; mentored undergraduate research interns (supervisor: Dr. Pylyshyn).

Laboratoire de Psychologie, Université de Franche-Comté, Besançon, France

- 2011 (summer) *Postdoctoral Research Fellow (100% FTE)*
Developed models of categorization and chunking in visual working memory (supervisor: Dr. Mathy).

Public Health Institute, Oakland, CA

- 2001 – 2008 *Research Associate (10-40% FTE)*
Developed surveys for longitudinal study examining tobacco industry marketing practices; produced training materials and trained data collectors; prepared and analyzed data (supervisor: Ms. Feighery).

Gabrieli Cognitive Neuroscience Laboratory, Stanford University, Stanford, CA

- 2004 – 2005 *Intern / Research Assistant (10-20% FTE)*
Assisted fMRI studies examining memory in normal and clinical populations; processed brain imaging data and analyzed behavioral data (supervisor: Dr. Rosen).

Stanford Prevention Research Center, Stanford University School of Medicine, Stanford, CA

- 2001 – 2005 *Computer Research Associate II (50%-90% FTE)*
Developed web-based applications to support Center research, collect study data, and disseminate results.
- 2001 – 2005 *Social Science Research Assistant III (10%-50% FTE)*
Collaborated on studies examining the relationship between: 1) tobacco marketing and youth behaviors, and 2) nicotine craving and attentional bias (supervisor: Dr. Henriksen).
- 1997 – 2001 *Social Science Research Assistant II (100% FTE)*
Assisted multidisciplinary studies examining: 1) youth social networks and smoking, 2) tobacco marketing in retail stores, and 3) the effectiveness of the California Tobacco Control Programs (supervisors: Ms. Feighery, Dr. Fortmann, Dr. Ribisl).

TEACHING EXPERIENCE

Rutgers University, Department of English, New Brunswick, NJ

2010 – 2011 *Instructor – Expository Writing*
 Taught two sections of an undergraduate writing course in the humanities.

Rutgers University, Department of Psychology, New Brunswick, NJ

2006 – 2008 *Instructor – Cognition Lab*
 Presented psychological research methodology and relevant statistical analysis using SPSS.

SKILLS

Computer MATLAB, SPSS, Excel, Word, Endnote, PageMaker, Photoshop, Illustrator, Premiere, ArcView, Dreamweaver, and web-based programming languages (ASP, SQL, HTML); Mac and Windows OS. Familiar with PsychoPy, SuperLab, E-Prime, Experimental Builder, and SR Research EyeLink eye-tracker.

Languages Conversational Arabic; basic French and Spanish.

PROFESSIONAL SERVICE

2011 Reviewer, Cognitive Science Society Annual Conference
 2007 – 2010 Organizer of Object Group meetings (academic discussions with participants from regional universities)
 2006 – 2007 Member of Diversity Committee, Rutgers University Department of Psychology

PROFESSIONAL MEMBERSHIPS

2008 – 2010 Association for Psychological Science
 2005 – Present Vision Sciences Society
 2004 – 2008 Cognitive Neuroscience Society
 2002 – Present Cognitive Science Society
 1997 – Present Friedrich Nietzsche Society

PUBLICATIONS

Chesney & **Haladjian** (*in press*). Evidence for a shared mechanism used in multiple object tracking and subitizing. *Attention, Perception, & Psychophysics*.

Haladjian & Pylyshyn (2011). Enumerating by pointing to locations: A new method for measuring the numerosity of visual object representations. *Attention, Perception, & Psychophysics*, 73(2): 303-308.

Haladjian, Singh, Pylyshyn, & Gallistel (2010). The encoding of spatial information during small-set enumeration. In Ohlsson & Catrambone (Eds.), *Proceedings of the 32nd Annual Conference of the Cognitive Science Society* (pp. 2839-2844). Austin, TX: Cognitive Science Society.

Pylyshyn, **Haladjian**, King, & Reilly (2008). Selective nontarget inhibition in Multiple Object Tracking. *Visual Cognition*, 16 (8):1011-1021.

Haladjian, Montemayor, & Pylyshyn (2008). Segregating targets and nontargets in depth eliminates inhibition of nontargets in Multiple Object Tracking. *Visual Cognition*, 16 (1):107-110.

Henriksen, Feighery, Schleicher, **Haladjian**, & Fortmann (2004). Reaching youth at the point of sale: Cigarette marketing is more prevalent in stores where adolescents shop frequently. *Tobacco Control*, 13 (3):315-8.

Feighery, Ribisl, Clark, & **Haladjian** (2003). How tobacco companies ensure prime placement of their advertising and products in stores: Interviews with retailers about tobacco company incentive programmes. *Tobacco Control*, 12 (2):184-8.

Haladjian, Howard-Pitney, Halvorson, Norman, & Howard (2003). Local Tobacco Control Programs. In: *Final Report: Independent Evaluation of the California Tobacco Control Prevention and Education Program: Waves 1, 2, & 3 (1996-2000)*. Independent Evaluation Consortium. Rockville, MD: The Gallup Organization, 2003.

Ribisl, Lee, Henriksen, & **Haladjian** (2003). A content analysis of web sites promoting smoking culture and lifestyle. *Health Education & Behavior*, 30 (1):64-78.

In preparation:

Haladjian, Singh, Pylyshyn, & Gallistel. Scene regularities increase subitizing performance.

Haladjian & Mathy. Snapshot encoding of spatial information: Location memory for visual short-term memory exposure.

Haladjian & Montemayor. Attention and consciousness.

Haladjian & Pylyshyn. Automatic feature binding enhanced during multiple object tracking.

PRESENTATIONS

Invited Talks:

The role of spatial information in subitizing. Talk presented to the INSERM-CEA Cognitive Neuroimaging Unit led by Stanislas Dehaene, Paris, France (July 2011).

Enumerating by pointing to locations. Talk presented to the Psychology Department, Université de Franche-Comté, Besançon, France (June 2011).

Conference Talks:

Haladjian, Pylyshyn, & Gallistel (2010). The encoding of spatial information during small-set enumeration. Talk presented at the 32nd Annual Meeting of the Cognitive Science Society (CSS), Portland, OR.

Haladjian, Montemayor, & Pylyshyn (2007). Segregating targets and nontargets in depth eliminates inhibition of nontargets in multiple object tracking. Talk presented at the 15th Annual Object Perception, Attention, & Memory (OPAM) Meeting of the Psychonomic Society, Long Beach, CA.

Conference Posters (partial list):

Haladjian, Griffith, & Pylyshyn (2011). The attentional blink impairs localization but not enumeration performance in an “enumerating-by-pointing” task. Presented at the 11th Annual Meeting of the Vision Sciences Society (VSS), Naples, FL.

Harman, **Haladjian, Aks, & Pylyshyn** (2011). Eye movements during an enumerating-by-pointing task enhance spatial compression. Presented at the 11th Annual VSS Meeting, Naples, FL.

Kibbe & **Haladjian** (2010). Visual attention and the tenuous binding of “what” and “where”: Evidence from infants and adults. Presented at the 18th Annual OPAM Meeting of the Psychonomic Society, St. Louis, MO.

Haladjian, Chesney, & Pylyshyn (2010). Does the tracking of moving objects interfere with subitizing? Presented at the Association for Psychological Science 22nd Annual Conference, Boston, MA.

Haladjian, Pylyshyn, & Gallistel (2010). Enumeration by location: Exploring the role of spatial information in numerosity judgments. Presented at the 10th Annual VSS Meeting, Naples, FL.

Haladjian, Pylyshyn, & Gallistel (2009). Enumerating by location increases the subitizing limit. Presented at the 17th Annual OPAM Meeting of the Psychonomic Society, Boston, MA.

Haladjian & Pylyshyn (2009). Distributing targets on two depth planes increases tracking capacity in Multiple Object Tracking. Presented at the 31st Annual CSS Meeting, Amsterdam, The Netherlands.

Aks, **Haladjian, Pylyshyn, & Hakkinen** (2009). Multiple Object Tracking with blink-contingent scene changes. Presented at the 9th Annual VSS Meeting, Naples, FL.

Haladjian, Pylyshyn, & Kugel (2009). Multiple Object Tracking through temporal gaps created by the fading of objects. Presented at the 9th Annual VSS Meeting, Naples, FL.

Haladjian & Montemayor (2008). Spatial cognition in different spaces. Presented at the 30th Annual CSS Meeting, Washington, D.C.

Haladjian & Pylyshyn (2008). Object-Specific Preview Benefit and Multiple Object Tracking: Priming effects enhanced during active tracking for English letters and unfamiliar symbols. Presented at the 30th Annual CSS Meeting, Washington, D.C.

Haladjian & Pylyshyn (2008). Object-Specific Preview Benefit enhanced during explicit Multiple Object Tracking. Presented at the 8th Annual VSS Meeting, Naples, FL.

Montemayor, **Haladjian, & Pylyshyn** (2007). Simultaneous and sequential presentations for object selection and memory recall. Presented at the 15th Annual OPAM Meeting of the Psychonomic Society, Long Beach, CA.

Haladjian & Pylyshyn (2007). Size differences improve tracking in Multiple Object Tracking, but only when the size of targets/nontargets changes as a group. Presented at the 7th Annual VSS Meeting, Sarasota, FL.

Haladjian & Pylyshyn (2006). Implicit multiple object tracking without an explicit tracking task. Presented at the 6th Annual VSS Meeting, Sarasota, FL.