

Andrew B. Leber, Ph.D.

Curriculum Vitae

10/25/2009

Contact Information

Department of Psychology
University of New Hampshire
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Primary Appointment

8/2007 - present: *Assistant Professor*, Department of Psychology, University of New Hampshire, Durham, NH

Additional Appointments

6/2009 – present: *Visiting Scientist*, Massachusetts General Hospital, Department of Radiology, Athinoula A. Martinos Center for Biomedical Imaging, Charlestown, MA.

1/2008 – present: *Affiliate*, Magnetic Resonance Research Center, Yale School of Medicine, New Haven, CT.

9/2007 - 10/2007: *Visiting Research Scientist*, Institute for Human Science and Biomedical Engineering, National Institute for Advanced Industrial Science and Technology (AIST), Tsukuba, JAPAN

10/2003 - 8/2007: *Postdoctoral Fellow*, Department of Psychology, Yale University, New Haven, CT

Education and Training

2003-2007, *Yale University, New Haven, CT.*

Postdoctoral training, Psychology

Advisor: Marvin M. Chun

1998-2003, *Johns Hopkins University, Baltimore, MD.*

M.A. (2000), Psychology

Ph.D. (2003), Psychological and Brain Sciences

Advisor: Howard Egeth

1994-1998, *Rutgers College, Rutgers University, New Brunswick, NJ.*

B.A. (1998), Psychology; minors in Philosophy and Cognitive Science

Affiliations

Association for Psychological Science

Psychonomic Society

Vision Sciences Society

Professional Activities

Committees

2005, 2006 Co-Organizer, Object Perception, Attention, and Memory Workshop (OPAM)

2001 Aviation Security Scientific Information Support Team

Ad hoc Reviewing

Journals:

Canadian Journal of Experimental Psychology • Cerebral Cortex • Cognition • Cognitive, Affective & Behavioral Neuroscience • Human Brain Mapping • Journal of Cognitive Neuroscience • Journal of Experimental Psychology: Applied • Journal of Experimental Psychology: Human Perception and Performance • Journal of Vision • Neuron • Perception • Perception & Psychophysics • Proceedings of the National Academy of Sciences, USA • Psychological Science • Psychonomic Bulletin & Review • Quarterly Journal of Experimental Psychology • Visual Cognition

Grant Agencies:

*National Science Foundation
Natural Sciences and Engineering Research Council of Canada*

Departmental and University Service

2009 - UNH Undergraduate Research Opportunities Program (UROP) Advisory Committee
2008 - Director, Undergraduate Research Participation Pool, Psychology Department, UNH
2008 - Chair, Departmental Review Committee for Human Subjects Protection

Awards and Honors

2009 University of New Hampshire Summer Faculty Fellowship, *Awardee*
2004 - 2007 National Institute of Mental Health, *Postdoctoral National Research Service Award*
2003, 2001 J. Brien Key Fund, Johns Hopkins University, *Award Recipient*
2000 Villanova Attraction, Distraction, and Action Conference, *Travel award recipient*

Manuscripts Published or In Press

Leber, A. B., Kawahara, J. -I., & Gabari, Y. (2009). Long-term, abstract learning of attentional set. *Journal of Experimental Psychology: Human Perception and Performance*, 35(5), 1385-1397.

Costello, M. C., Madden, D. J., Shepler, A. M., Mitroff, S. R., & Leber, A. B. (in press). Age-related preservation of top-down control over distraction in visual search. *Experimental Aging Research*.

Leber, A. B., Turk-Browne, N. B., & Chun, M. M. (2008). Neural predictors of moment-to-moment fluctuations in cognitive flexibility. *Proceedings of the National Academy of Sciences, USA*, 105(36), 13592-13592.

Folk, C. L., Leber, A. B., & Egeth, H. E. (2008). Top-down control settings and the attentional blink: Evidence for non-spatial contingent capture. *Visual Cognition*, 16, 616-642.

Turk-Browne, N. B., Yi, D.-J., Leber, A. B., & Chun, M. M. (2007). Visual quality determines the direction of neural repetition effects. *Cerebral Cortex*, 17(2), 425-433.

Lamy, D., Carmel, T., Egeth, H. E., & Leber, A. B. (2006). Effects of search mode and inter-trial priming on singleton search. *Perception & Psychophysics*, 68(6), 919-932.

Leber, A. B., & Egeth, H. E. (2006). Attention on autopilot: Past experience and attentional set. *Visual Cognition*, 14, 565-583.

Leber, A. B. & Egeth, H. E. (2006). It's under control: Top down search strategies can override attentional capture. *Psychonomic Bulletin & Review*, 13(1), 132-138.

Serences, J., Shomstein, S., Leber, A. B., Golay, X., Egeth, H. E., & Yantis, S. (2005). Coordination of voluntary and stimulus-driven attentional control in human cortex. *Psychological Science*, 16(2), 114-122.

Lamy, D., Leber, A., & Egeth, H. E. (2004). Effects of stimulus-driven salience within feature search mode. *Journal of Experimental Psychology: Human Perception and Performance*, 30(6), 1019-1031.

Folk, C. L., Leber, A. B., & Egeth, H. E. (2002). Made you blink! Contingent attentional capture produces a spatial blink. *Perception & Psychophysics*, 64(5), 741-753.

Egeth, H. E., Folk, C. L., Leber, A. B., Nakama, T., & Hendl, S. (2001). Attentional capture in the spatial and temporal domains. In C. L. Folk & B. S. Gibson (Eds.) *Advances in Psychology XXX - Attraction, Distraction, and Action: Multiple Perspectives on Attentional Capture*. Amsterdam: Elsevier Science B.V.

Other Publications and Manuscripts

- Leber, A. B. (2004). *On the Maintenance and Switching of Attentional Set*. Ph.D. dissertation, The Johns Hopkins University, United States – Maryland. Retrieval from ProQuest Digital Dissertations database (Publication No. AAT 3107532).
- Leber, A. B. (2000). Cognitive psychology. *Imagine*, 7(5). Center For Talented Youth, Johns Hopkins University, Baltimore, MD.
- Leber, A. B. (1999). *The limits of top-down influences on object-based attention*. Unpublished master's thesis.

Conference Presentations

- Leber, A. B. (2009, November). Neural predictors of within-subject fluctuations in attention capture over time. Paper to be presented at the 50th Annual Meeting of the Psychonomic Society, Boston, MA.
- Folk, C. L., Leber, A. B., & Egeth, H. E. (2009, November). Shifting the sparing: Novel distractors produce lab 2 sparing in a contingent attentional blink task. Paper to be presented at the 50th Annual Meeting of the Psychonomic Society, Boston, MA.
- Wells, E., Leber, A., & Sparrow, J. (2009, November). The role of mask heterogeneity in Motion-induced Blindness. Poster to be presented at the annual Object Perception, Attention & Memory (OPAM) workshop, Boston, MA.
- Leber, A. B. (2009, May). The divided self: fMRI reveals within-subject fluctuations in the resistance to attention capture over time. Paper presented at the Ninth Annual Meeting of the Vision Sciences Society, Naples, FL.
- Folk, C. L., Leber, A. B., & Egeth, H.E. (2009, May). A blip in the blink: Novel distractors produce sparing at lag 2, but not lag 1. Poster presented at the Ninth Annual Meeting of the Vision Sciences Society, Naples, FL.
- Leber, A. B., Lamy, D., & Egeth, H. E. (2008, November). Ignoring visual distractors when they don't go away. Poster presented at the 49th Annual Meeting of the Psychonomic Society, Chicago, IL.
- Leber, A. B., & Kawahara, J. (2008, May). Abstract learning of attentional set. Poster presented at the Eighth Annual Meeting of the Vision Sciences Society, Naples, FL.
- Leber, A. B., Turk-Browne, N. B., & Chun, M. M. (2007, May). Pretrial fMRI activity predicts behavioral success. Paper presented at the Seventh Annual Meeting of the Vision Sciences Society, Sarasota, FL.
- Leber, A. B., Turk-Browne, N. B., & Chun, M. M. (2007, May). Successes and failures of cognitive control are predicted by pre-trial fMRI activity. Poster presented at the Annual Meeting of the Cognitive Neuroscience Society, New York, NY.
- Leber, A. B., & Chun, M. M. (2006, November). When pop-out targets do not pop out. Poster presented at the 47th Annual Meeting of the Psychonomic Society, Houston, TX.
- Leber, A. B., Gabari, Y., & Kawahara, J. (2006, May). Reactivation of attentional set after 1-day and 1-week delays. Poster presented at the Sixth Annual Meeting of the Vision Sciences Society, Sarasota, FL.
- Leber, A. B., & Chun, M. M. (2005, May). Why search for singletons when you know the target feature? Poster presented at the Fifth Annual Meeting of the Vision Sciences Society, Sarasota, FL.
- Lamy, D., Leber, A. B., & Egeth, H. E. (2004, November). Attentional set and intertrial contingencies in singleton search. Paper presented at the 45th Annual Meeting of the Psychonomic Society, Minneapolis, MN.
- Lamy, D., Carmel, T., Egeth, H. E., & Leber, A. B. (2004, October). Effects of search mode and inter-trial priming on singleton search. Poster presented at the Annual Meeting of the Israeli Society of Cognitive Psychology, Bar-Ilan University, Ramat-Gan, Israel.
- Leber, A. B., Chun, M. M., & Widders, D. M. (2004, May). Attentional set implementation is guided by implicit visual context memory. Poster presented at the Fourth Annual Meeting of the Vision Sciences Society, Sarasota, FL.
- Leber, A. B., & Egeth, H. E. (2003, November). It's under control: Top down search strategies do override attentional capture. Paper presented at the annual Object Perception, Attention, and Memory (OPAM) workshop, Vancouver, BC.

- Leber, A. B., & Egeth, H. E. (2002, November). Attention on auto-pilot: on the passive switching of attentional set. Paper presented at the annual Object Perception and Memory (OPAM) workshop, Kansas City, MO.
- Lamy, D., Leber, A. B., & Egeth, H. E. (2002, May). Effects of bottom-up salience within the feature search mode. Poster presented at the Second Annual Meeting of the Vision Sciences Society, Sarasota, FL.
- Serences, J., Shomstein, S., Leber, A. B., Yantis, S., & Egeth, H. E. (2002, April). Neural mechanisms of goal-directed and stimulus-driven attentional control. Poster presented at the Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA.
- Leber, A. B., & Egeth, H. E. (2002, April). Shifting attentional set in RSVP: Attenuating the residual task switch cost. Poster presented at the Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA.
- Serences, J., Shomstein, S., Leber, A. B., Yantis, S., & Egeth, H. E. (2001, November). Neural mechanisms of goal-directed and stimulus-driven attentional control. Paper presented at the 42nd Annual Meeting of the Psychonomic Society, Orlando, FL.
- Folk, C. L., Leber, A. B., & Egeth, H. E. (2001, November). Capture at the fovea: control settings and the attentional blink. Paper presented at the 42nd Annual Meeting of the Psychonomic Society, Orlando, FL.
- Leber, A. B., & Egeth, H. E. (2001, November). Attentional control, task switching, and a new definition for the residual switch cost. Poster presented at the annual Object Perception and Memory (OPAM) workshop, Orlando, FL.
- Leber, A. B., & Egeth, H. E. (2001, May). Exploring mode selection in visual search. Poster presented at the First Annual Meeting of the Vision Sciences Society, Sarasota, FL.
- Leber, A. B., & Egeth, H. E. (2001, April). Mode selection in visual search. Paper presented at the Annual Meeting of the Eastern Psychological Association, Washington, D.C.
- Folk, C. L., Leber, A. B., & Egeth, H. E. (2000, November). Contingent attentional capture meets the attentional blink. Paper presented at the 41st Annual Meeting of the Psychonomic Society, New Orleans, LA.
- Egeth, H. E., Folk, C. L., Leber, A. B., & Nakama, T. (2000, June). Contingent attentional capture and the attentional blink. Paper presented at the Attraction, Distraction, and Action Conference, Villanova, PA.

Invited Talks

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| <i>2009, March</i> | Where Mind Wandering Meets Cognitive Flexibility Symposium. Eastern Psychological Association Annual Meeting, Pittsburgh, PA. |
| <i>2008, October</i> | Visual Attention Seminar Series, Brigham & Women's Hospital, Harvard Medical School |
| <i>2007, October</i> | International Conference on Cognition, Consciousness and Culture, Yonsei University, Seoul, Korea |
| <i>2007, October</i> | Department of Psychology, University of Kyoto, Kyoto, Japan |
| <i>2007, September</i> | Cognition and Action Research Group, AIST, Tsukuba, Japan |
| <i>2007, August</i> | Blinks of the mind: New insights in temporal attention and consciousness. Royal Netherlands Academy of Arts and Sciences (KNAW), Amsterdam, Netherlands. [paper delivered by Marvin M. Chun] |
| <i>2006, December</i> | Magnetic Resonance Imaging Research Center, Yale School of Medicine |
| <i>2006, December</i> | Department of Psychology, Williams College |
| <i>2006, November</i> | Department of Psychology, University of New Hampshire |
| <i>2006, September</i> | Vision Seminar, Johns Hopkins University |
| <i>2004, January</i> | Cognitive Psychology Group, Vrije Universiteit, Amsterdam, Netherlands |

Selected Media Coverage

Radio

- 10/20/2008 "Shelley Duffy's Information Minute." KDKA 1020AM, Pittsburgh, PA

Print and Web

11/2008 Yale Alumni Magazine [http://www.yalealumnimagazine.com/issues/2008_11/findings_multitasking.html]
9/5/2008 UNH Alumni Connection [https://www.alumni.unh.edu/connection/archives/09_05_08.html]
9/3/2008 ABCNews.com [<http://abcnews.go.com/Technology/story?id=5710123>]

Teaching Experience

Instructor:

Advanced Seminar in Cognition: *Fall, 2008*
Cognitive Psychology: *Fall, 2009*
Research Methods in Psychology: *Spring, 2008; Fall, 2008; Spring 2009; Fall, 2009*
Laboratory in the Analysis of Psychological Data: *Spring, 2000; Spring, 2001*

Teaching Assistant:

Advanced Statistical Methods: *Fall, 2002*
Introduction to Personality Theory: *Spring, 2002*
Theory and Methods in Clinical Psychology: *Fall, 2001*
Issues in Counseling and Mental Health: *Fall, 2000; Spring, 2003*
Social Psychology: *Fall, 1999*
Sleep, Dreams, and Altered States of Consciousness: *Spring, 1999*
Cross-cultural Psychology: *Fall, 1998*

Ph.D. Dissertation Advisory Committees

Anne Gilman (UNH), Lori Newman (UNH)

M.A. Thesis Advisory Committees

Emily Carter (UNH)