

Lynn J. Lohnas

504 Huntington Hall, Syracuse NY 13244
sites.google.com/site/lynnlohnas
ljlohnas@syr.edu

Academic appointments

2018- Assistant Professor, Psychology Syracuse University

Education

2013-8 Postdoctoral Fellow, Psychology New York University
Advisor: Lila Davachi

2007-12 Ph.D., Neuroscience; Certificate, University of Pennsylvania
Computational Neuroscience Advisor: Michael Kahana

2003-7 B.A., Neuroscience and Mathematics Brandeis University
Honors, Magna Cum Laude

Peer-reviewed publications

Lohnas, L.J., Davachi, L., Kahana, M.J. (In revision). Neural fatigue influences memory encoding in the human hippocampus.

Talmi, D., **Lohnas, L.J.**, Daw, N.D. (2019). A retrieved context model of the emotional modulation of memory. *Psychological Review*. 126(4), 455–485.

Lohnas, L.J., Duncan, K., Doyle, W.K., Thesen, T., Devinsky, O., Davachi, L. (2018). Time-resolved neural reinstatement and pattern separation during memory decisions in human hippocampus. *Proceedings of the National Academy of Sciences*. 115(31), E7418–E7427.

Kuhn, J.R., **Lohnas, L.J.**, Kahana, M.J. (2018). A spacing account of negative recency in final free recall. *Journal of Experimental Psychology: Learning, Memory, and Cognition*. 44(8), 1180–1185.

Lohnas, L.J., Polyn, S.M., Kahana, M.J. (2015). Expanding the scope of memory search: Modeling intralist and interlist effects in free recall. *Psychological Review*. 122(2), 337–363.

Lohnas, L.J., Kahana, M.J. (2014). A retrieved context account of spacing and repetition effects in free recall. *Journal of Experimental Psychology: Learning, Memory, and Cognition*. 40(3), 755–764.

Lohnas, L.J., Kahana, M.J. (2014). Compound cuing in free recall. *Journal of Experimental Psychology: Learning, Memory, and Cognition*. 40(1), 12–24.

Lohnas, L.J., Kahana, M.J. (2013). Parametric effects of word frequency in memory for mixed frequency lists. *Journal of Experimental Psychology: Learning, Memory, and Cognition*. 39(6), 1943–1946.

Lohnas, L.J., Polyn, S.M., Kahana, M.J. (2011). Contextual variability in free recall. *Journal of Memory and Language*. 64(3), 249–255.

Book chapters

Lohnas, L.J. (In revision). Free recall and memory search. In M.J. Kahana & A.D. Wagner (Eds.), *Handbook of Human Memory*, Oxford University Press.

Grants & awards

- 2019 Cognitive Psychology Section Award
British Psychological Society
A retrieved context model of the emotional modulation of memory
- 2015-8 NIH F32 MH106266 PI
Dynamics of episodic memory and event segmentation
Award amount: \$174,571
- 2015 New Investigator Award
American Psychological Association, Division 3
A retrieved context account of spacing and repetition effects in free recall
- 2009-11 NIH T90 DA22763 Trainee
Integrated Interdisciplinary Training Grant in Computational Neuroscience
- 2008 Mahoney Institute of Neurological Sciences Travel Award

Ad hoc reviewer

Scientific Reports
Psychological Review
Learning & Memory
Psychonomic Bulletin & Review
Journal of Experimental Psychology: General
Journal of Experimental Psychology: Learning, Memory and Cognition
Cognition
Cognitive Science
Cognition and Emotion
Frontiers in Psychology
Quarterly Journal of Experimental Psychology
Psychological Research

Professional affiliations

Faculty Affiliate, Syracuse University Neuroscience Program
Faculty Affiliate, Syracuse University Aging Studies Institute
Psychonomic Society
Society for Mathematical Psychology
Cognitive Neuroscience Society
Society for Neuroscience

Conference presentations & invited talks

Talmi, D., **Lohnas, L.J.**, Daw, N.D. A retrieved context model of the emotional modulation of memory. *Annual Cognitive Section Conference of the British Psychological Society*. Staffordshire, England.

- Lohnas, L.J.**, Healey, M.K., Davachi, L. (2019). Event boundaries cause shifts in electrophysiological measures of temporal context. *Syracuse Neuroscience Research Day*. Syracuse, NY.
- Lohnas, L.J.**, Healey, M.K., Davachi, L. (2018). Event boundaries cause shifts in electrophysiological measures of temporal context. *Context and Episodic Memory Symposium*. Philadelphia, PA.
- Talmi, D., **Lohnas, L.J.** (2018). A retrieved context model of the emotional modulation of memory. *Context and Episodic Memory Symposium*. Philadelphia, PA.
- Lohnas, L.J.**, Duncan, K., Thesen, T., Devinsky, O., Davachi L. (2017). Time-resolved memory reinstatement and separation during memory decisions. *Context and Episodic Memory Symposium*. Philadelphia, PA.
- Talmi, D., **Lohnas, L.J.**, Daw, N.D. (2017). Context at the helm of the emotional modulation of memory. *Context and Episodic Memory Symposium*. Philadelphia, PA.
- Talmi, D., **Lohnas, L.J.**, Daw, N.D. (2017). Context at the helm of the emotional modulation of memory. *Computational and Systems Neuroscience Meeting*. Salt Lake City, UT.
- Lohnas, L.J.**, Beulen, M.A., Jacobs, J., Davachi, L. Kahana, M.J., Tulving, E. (2016). Neural fatigue influences memory encoding in the hippocampus. *Manhattan Area Memory Meeting*. New York, NY.
- Lohnas, L.J.**, Duncan, K., Thesen, T., Devinsky, O., Davachi, L. (2015). Mnemonic processing in hippocampus and dorsolateral prefrontal cortex. *Context and Episodic Memory Symposium*. Philadelphia, PA.
- Lohnas, L.J.**, Duncan, K., Thesen, T., Devinsky, O., Davachi, L. (2014). Modulation of memory processing by top-down attentional goals. *Manhattan Area Memory Meeting*. New York, NY.
- Lohnas, L.J.**, Polyn, S.M., Kahana, M.J. (2014). Expanding the scope of memory search: Modeling intralist and interlist effects in free recall. *Context and Episodic Memory Symposium*. Philadelphia, PA.
- Lohnas, L.J.**, Kahana, M.J. (2013). A retrieved context account of the lag effect in free recall. *Context and Episodic Memory Symposium*. Philadelphia, PA.
- Lohnas, L.J.**, Kahana, M.J. (2013). How does retrieved context influence the accumulation of episodic memories? *Vanderbilt University*. Nashville, TN.
- Lohnas, L.J.**, Kahana, M.J. (2012). How does retrieved context influence the organization of episodic memories? *New York University*. New York, NY.
- Lohnas, L.J.** (2012). Commentary on the context repetition effect. *Context and Episodic Memory Symposium*. Philadelphia, PA.
- Lohnas, L.J.**, Polyn, S.M., Kahana, M.J. (2012). Using a single context representation to explain memory on multiple time scales. *Princeton University*. Princeton, NJ.
- Lohnas, L.J.**, Polyn, S.M., Kahana, M.J. (2009). Expanding the scope of memory search: Intralist and interlist effects in free recall. *Context and Episodic Memory Symposium*. Philadelphia, PA.

Posters & abstracts

- Lohnas, L.J.**, Healey, M.K., Davachi, L. (2018). Event boundaries modulate neural representations of temporal context. *Annual Meeting of the Cognitive Neuroscience Society*. Boston, MA.
- Lohnas, L.J.**, Davachi L. (2017). Disentangling interactions between context switches and repetition effects. *Annual Meeting of the Society for Neuroscience*. Washington, DC.
- Lohnas, L.J.**, Davachi L. (2017). Disentangling interactions between context switches and repetition effects. *Annual Meeting of the Psychonomic Society*. Vancouver, BC, Canada.

- Lohnas, L.J.**, Davachi, L. (2017). Disentangling interactions between context switches and the spacing effect. *Annual Meeting of the Cognitive Neuroscience Society*. San Francisco, CA.
- Lohnas, L.J.**, Davachi, L. (2016). Distangling interactions between context, spacing and repetition to item and source memory. *Context and Episodic Memory Symposium*. Philadelphia, PA.
- Lohnas, L.J.**, Duncan, K., Thesen, T., Devinsky, O., Davachi, L. (2016). Modulation of mnemonic processing based on task relevance. *Annual Meeting of the Cognitive Neuroscience Society*. New York, NY.
- Lohnas, L.J.**, Beulen, M.A., Jacobs, J., Kahana, M.J., Tulving, E. (2015). Neural fatigue influences memory encoding in the human hippocampus. *Context and Episodic Memory Symposium*. Philadelphia, PA.
- Lohnas, L.J.**, Duncan, K., Thesen, T., Devinsky, O., Davachi, L. (2015). Modulation of memory processing by attentional goals. *Annual Meeting of the Cognitive Neuroscience Society*. San Francisco, CA.
- Lohnas, L.J.**, Duncan, K., Thesen, T., Devinsky, O., Davachi, L. (2014). Modulation of memory processing by top-down attentional goals. *Annual Meeting of the Society for Neuroscience*. Washington, DC.
- Greenberg, J.A., **Lohnas, L.J.**, Burke, J.F., Kahana, M.J. (2013). Human electrocorticography of paired associate learning. *Annual Meeting of the Society for Neuroscience*. San Diego, CA.
- Kuhn, J.R., **Lohnas, L.J.**, Kahana, M.J. (2012). A single-store account of the negative recency effect in final free recall. *Annual Meeting of the Psychonomic Society*. Toronto, ON, Canada.
- Lohnas, L.J.**, Kahana, M.J. (2012). The right memory at the wrong time: A neural signature of prior-list intrusions in free recall. *Annual Meeting of the Society for Neuroscience*. New Orleans, LA.
- Lohnas, L.J.**, Polyn, S.M., Kahana, M.J. (2012). Expanding the scope of memory search: Modeling intralist and interlist effects in free recall, *Annual Meeting of the Society for Mathematical Psychology*. Columbus, OH.
- Lohnas, L.J.**, Kahana, M.J. (2012). A retrieved-context account of repetition effects in free recall. *Context and Episodic Memory Symposium*. Bloomington, IN.
- Eskreis-Winkler, J.M., **Lohnas, L.J.**, Kahana, M.J. (2012). sCMR: A context-maintenance and retrieval model of both serial and free recall. *Context and Episodic Memory Symposium*. Bloomington, IN.
- Healey, M. K., **Lohnas, L.J.**, Kahana M.J. (2012). Modeling age-related changes in episodic memory. *Context and Episodic Memory Symposium*. Bloomington, IN.
- Kuhn, J.R., **Lohnas, L.J.**, Kahana, M.J. (2012). A single-store account of the negative recency effect in final free recall. *Context and Episodic Memory Symposium*. Bloomington, IN.
- Healey, M.K., **Lohnas, L.J.**, Kahana M.J. (2012). Understanding age-related memory impairments: A model-based approach to theory development. *Cognitive Aging Conference*. Atlanta, GA.
- Lohnas, L.J.**, Kahana, M.J. (2011). Compound cueing in free recall. *Annual Meeting of the Psychonomic Society*. Seattle, WA.
- Healey, M.K., **Lohnas, L.J.**, Kahana, M.J. (2011). Understanding age related memory impairments: An extension of the context maintenance and retrieval model. *Annual Meeting of the Society for Mathematical Psychology*. Boston, MA.
- Lohnas, L.J.**, Kahana, M.J. (2011). Compound cueing in free recall. *Context and Episodic Memory Symposium*. Philadelphia, PA.
- Lohnas, L.J.**, Polyn, S.M., Kahana, M.J. (2010). Modeling intralist and interlist effects in free recall. *Annual Meeting of the Psychonomic Society*. St. Louis, MO.
- Lohnas, L.J.**, Polyn, S.M., Kahana, M.J. (2010). A context maintenance and retrieval model of interlist effects in free recall. *Context and Episodic Memory Symposium*. Philadelphia, PA.

Lohnas, L.J., Polyn, S.M., Kahana, M.J. (2009). Re-evaluating the contextual variability hypothesis of free recall. *Annual Meeting of the Psychonomic Society*. Boston, MA.

Allred, S.R., Troiani, V., **Lohnas, L.J.**, Jiang, L., Radonjic, A., Gilchrist, A., Brainard, D.H. (2009). An ideal observer model predicts lightness matches. *Journal of Vision*, 9(8): 345. Vision Sciences Society, Naples, FL.

Lohnas, L.J., Moore, J., Chen, Y., Sun, Y., Kelz, M. (2008). Approximate entropy: A novel method of automated offline sleep scoring. *Center for Sleep and Respiratory Neurobiology Research Retreat*. Philadelphia, PA.

Allred, S.R., **Lohnas, L.J.**, Brainard, D.H. (2008). Bayesian model of lightness perception. *Gordon Research Conference: Sensory Coding and the Natural Environment*. Lucca, Italy.

Allred, S.R., **Lohnas, L.J.**, Brainard, D.H. (2008). Bayesian model of the staircase Gelb effect. *Journal of Vision*, 8(6): 283. Vision Sciences Society, Naples, FL.

Undergraduate trainees

2020- Abigail Goldberg

2019- Dina Silvestri

2019 Simran Karamchandani

2019 Sydney Gutierrez

Other mentoring

2019	Dissertation proposal committee Yanxiu (Sharon) Chen, graduate	Syracuse University
2018-9	Masters committee Brad Diamond, graduate	Syracuse University
2016-7	Advisor for research assistant Akshay Muralisrinivasan, undergraduate	New York University
2016-7	Advisor for research assistant Defne Inhan, undergraduate	New York University
2015-6	Advisor for research assistant Pranali Soni, undergraduate	New York University
2012	Advisor for Computational Neuroscience Summer Program Jonathan Eskreis-Winkler, undergraduate	University of Pennsylvania
2011	Advisor for Computational Neuroscience Summer Program Jonathan Schwartz, undergraduate	University of Pennsylvania
2011	Advisor for Computational Neuroscience Summer Program Minqi Jiang, undergraduate	University of Pennsylvania
2011	Supervisor for Independent Study in Psychology Andrew Spelman, undergraduate	University of Pennsylvania

Teaching

Graduate: Advanced Cognitive Neuroscience, Proseminar Methods and Topics in Cognitive Psychology

Undergraduate: Introduction to Cognitive Neuroscience