

July, 2017

MATTHEW W. LOWDER

Department of Psychology
University of Richmond
28 Westhampton Way
Richmond, VA 23173

mlowder@richmond.edu
Phone: 804-289-8123
Fax: 804-287-1905
<https://sites.google.com/site/mattlowder/>

EDUCATION

- 2014 Ph.D. in Cognitive Psychology
 University of North Carolina at Chapel Hill
- 2007 M.A. in Experimental Psychology
 College of William and Mary
- 2005 B.A. in Psychology, Minor in Latin
 Wake Forest University
 Magna cum laude with Departmental Honors

EMPLOYMENT

- 2017-present Assistant Professor
 University of Richmond
 Department of Psychology
- 2015-2017 Postdoctoral Fellow
 University of California, Davis
 Department of Psychology and Center for Mind and Brain
- 2014-2015 Postdoctoral Fellow
 University of South Carolina
 Department of Psychology and Institute for Mind and Brain
- 2007-2009 Associate in Research
 Duke University
 Center for Cognitive Neuroscience

RESEARCH INTERESTS

Psycholinguistics; eye-movement control during reading; lexical, syntactic, and semantic processing; individual differences in sentence processing; speech disfluency; figurative language; mechanisms of memory and attention that support language

PUBLICATIONS

- Lowder, M. W.**, & Gordon, P. C. (in press). Print exposure modulates effects of repetition priming during sentence reading. *Psychonomic Bulletin & Review*.
- Choi, W., **Lowder, M. W.**, Ferreira, F., Swaab, T., & Henderson, J. M. (2017). Effects of word predictability and preview lexicality on eye movements during reading: A comparison between young and older adults. *Psychology and Aging*, *32*, 232-242.
- Lowder, M. W.**, & Ferreira, F. (2016). Prediction in the processing of repair disfluencies: Evidence from the visual-world paradigm. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *42*, 1400-1416.
- Lowder, M. W.**, & Gordon, P. C. (2016). Eye-tracking and corpus-based analyses of syntax-semantics interactions in complement coercion. *Language, Cognition and Neuroscience*, *31*, 921-939.
- Ferreira, F., & **Lowder, M. W.** (2016). Prediction, information structure, and good-enough language processing. *Psychology of Learning and Motivation*, *65*, 217-247.
- Gordon, P. C., **Lowder, M. W.**, & Hoedemaker, R. S. (2016). Reading in normally aging adults. In Wright, H. H. (Ed.), *Cognition, Language and Aging* (pp. 165-191). Philadelphia: John Benjamins Publishing.
- Henderson, J. M., Choi, W., **Lowder, M. W.**, & Ferreira, F. (2016). Language structure in the brain: A fixation-related fMRI study of syntactic surprisal in reading. *NeuroImage*, *132*, 293-300.
- Lowder, M. W.**, & Ferreira, F. (2016). Prediction in the processing of repair disfluencies. *Language, Cognition and Neuroscience*, *31*, 73-79.
- Choi, W., **Lowder, M. W.**, Ferreira, F., & Henderson, J. M. (2015). Individual differences in the perceptual span during reading: Evidence from the moving window technique. *Attention, Perception, & Psychophysics*, *77*, 2463-2475.
- Lowder, M. W.**, & Gordon, P. C. (2015). Focus takes time: Structural effects on reading. *Psychonomic Bulletin & Review*, *22*, 1733-1738.
- Lowder, M. W.**, & Gordon, P. C. (2015). The manuscript that we finished: Structural separation reduces the cost of complement coercion. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *41*, 526-540.
- Lowder, M. W.**, & Gordon, P. C. (2015). Natural forces as agents: Reconceptualizing the animate-inanimate distinction. *Cognition*, *136*, 85-90.

- Lowder, M. W.**, & Gordon, P. C. (2014). Effects of animacy and noun-phrase relatedness on the processing of complex sentences. *Memory & Cognition*, *42*, 794-805.
- Lowder, M. W.**, & Gordon, P. C. (2013). It's hard to offend the college: Effects of sentence structure on figurative-language processing. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *39*, 993-1011.
- Lowder, M. W.**, Choi, W., & Gordon, P. C. (2013). Word recognition during reading: The interaction between lexical repetition and frequency. *Memory & Cognition*, *41*, 738-751.
- Lowder, M. W.**, & Gordon, P. C. (2012). The pistol that injured the cowboy: Difficulty with inanimate subject-verb integration is reduced by structural separation. *Journal of Memory and Language*, *66*, 819-832.
- Gordon, P. C., & **Lowder, M. W.** (2012). Complex sentence processing: A review of theoretical perspectives on the comprehension of relative clauses. *Language and Linguistics Compass*, *6*, 403-415.
- Johnson, M. L., **Lowder, M. W.**, & Gordon, P. C. (2011). The sentence-composition effect: Processing of complex sentences depends on the configuration of common noun phrases versus unusual noun phrases. *Journal of Experimental Psychology: General*, *140*, 707-724.
- St. Jacques, P. L., Conway, M. A., **Lowder, M. W.**, & Cabeza, R. (2011). Watching my mind unfold versus yours: An fMRI study using a novel camera technology to examine neural differences in self-projection of self versus other perspectives. *Journal of Cognitive Neuroscience*, *23*, 1275-1284.
- Burk, J. A., **Lowder, M. W.**, & Altemose, K. E. (2008). Attentional demands for demonstrating deficits following intrabasis infusions of 192 IgG-saporin. *Behavioural Brain Research*, *195*, 231-238.

MANUSCRIPTS UNDER REVIEW AND IN PREPARATION

- Lowder, M. W.**, & Ferreira, F. (under review). I see what you meant to say: Anticipating speech errors during online sentence processing.
- Lowder, M. W.**, Choi, W., Ferreira, F., & Henderson, J. M. (under review). Lexical predictability during natural reading: Effects of surprisal and entropy reduction.
- Lowder, M. W.**, Maxfield, N., & Ferreira, F. (in prep). Processing of self-repairs in stuttered and non-stuttered speech.

HONORS AND AWARDS

- 2015-2017 NIH Ruth L. Kirschstein National Research Service Award (F32)
Postdoctoral fellowship
- 2016 Member Select-Speaker Award
Psychonomic Society
- 2014 CUNY Conference on Human Sentence Processing Travel Award
Ohio State University
- 2014 Departmental Recognition for Outstanding Teaching Evaluations
University of North Carolina at Chapel Hill
- 2013 Lyle V. Jones Award for Outstanding Scholarship
University of North Carolina at Chapel Hill
- 2013 Dashiell Dissertation Start-Up Award
University of North Carolina at Chapel Hill

COURSES TAUGHT

University of Richmond
Psycholinguistics with Lab

Fall 2017

University of North Carolina at Chapel Hill
Cognitive Psychology

Fall 2013, Spring 2014

CONFERENCE PRESENTATIONS

Lowder, M. W., Choi, W., Ferreira, F., & Henderson, J. M. (March 2017). Prediction during natural reading: Effects of surprisal and entropy reduction. Paper presented at the 30th annual CUNY Conference on Human Sentence Processing. Massachusetts Institute of Technology, Cambridge, MA.

Lowder, M. W., & Ferreira, F. (March 2017). Anticipating speech errors during online sentence processing. Poster presented at the 30th annual CUNY Conference on Human Sentence Processing. Massachusetts Institute of Technology, Cambridge, MA.

Lowder, M. W., & Ferreira, F. (March 2017). Prediction in repair disfluencies, focus constructions, and noun phrase coordination. Poster presented at the 30th

annual CUNY Conference on Human Sentence Processing. Massachusetts Institute of Technology, Cambridge, MA.

Choi, W., **Lowder, M. W.**, & Henderson, J. M. (March 2017). Effects of text difficulty during natural reading: A co-registered eye-tracking and fMRI study. Poster presented at the 24th annual meeting of the Cognitive Neuroscience Society. San Francisco, CA.

Brothers, T., **Lowder, M. W.**, Henderson, J. M., Ferreira, F., Traxler, M. J., & Swaab, T. Y. (March 2017). Neural consequences of syntactic surprisal during reading. Poster presented at the 24th annual meeting of the Cognitive Neuroscience Society. San Francisco, CA.

Lowder, M. W., & Ferreira, F. (November 2016). Anticipating speech errors during online sentence processing. Paper presented at the 57th annual meeting of the Psychonomic Society (Member Select-Speaker Award). Boston, MA.

Maxfield, N., **Lowder, M. W.**, & Ferreira, F. (November 2016). Processing of self-repairs in stuttered and non-stuttered speech. Poster presented at the annual meeting of the American Speech-Language-Hearing Association. Philadelphia, PA.

Maxfield, N., **Lowder, M. W.**, Olsen, W., & Ferreira, F. (November 2016). Real-time processing and interpretation of garden path sentences containing stuttering-like disfluencies. Poster presented at the annual meeting of the American Speech-Language-Hearing Association. Philadelphia, PA.

Lowder, M. W., & Ferreira, F. (March 2016). I see what you meant to say: Effects of plausibility and speaker certainty on processing of repair disfluencies. Paper presented at the 29th annual CUNY Conference on Human Sentence Processing. University of Florida, Gainesville, FL.

Lowder, M. W., Maxfield, N., & Ferreira, F. (March 2016). Processing of self-repairs in stuttered and non-stuttered speech. Poster presented at the 29th annual CUNY Conference on Human Sentence Processing. University of Florida, Gainesville, FL.

Lowder, M. W., & Gordon, P. C. (March 2016). Print exposure modulates effects of repetition priming during sentence reading. Poster presented at the 29th annual CUNY Conference on Human Sentence Processing. University of Florida, Gainesville, FL.

Choi, W., **Lowder, M. W.**, Ferreira, F., Swaab, T., & Henderson, J. M. (March 2016). The effects of contextual predictability and parafoveal preview on word recognition during reading: A comparison between older and younger adults. Poster presented at the 29th annual CUNY Conference on Human Sentence Processing. University of Florida, Gainesville, FL.

- Pancani, G. C., Gordon, P. C., **Lowder, M. W.**, Hoedemaker, R. S., & Moore, M. (February 2016). Recognizing words during sentence processing: Behavioral and neural measures. Poster presented at the 43rd annual meeting of the North Carolina Cognition Group. Wake Forest University, Winston-Salem, NC.
- Lowder, M. W.**, & Ferreira, F. (November 2015). Prediction in the processing of repair disfluencies. Paper presented at the 56th annual meeting of the Psychonomic Society. Chicago, IL.
- Henderson, J. M., Choi, W., **Lowder, M. W.**, & Ferreira, F. (November 2015). Searching for syntax in the brain: Evidence from fixation-related fMRI. Paper presented at the 56th annual meeting of the Psychonomic Society. Chicago, IL.
- Pancani, G. C., Gordon, P. C., Hoedemaker, R. S., **Lowder, M. W.**, & Moore, M. (November 2015). Behavioral and neural measures of reading: Eye movements & ERPs. Poster presented at the 56th annual meeting of the Psychonomic Society, Chicago, IL.
- Choi, W., **Lowder, M. W.**, & Henderson, J. M. (November 2015). Effects of global text difficulty on eye movements during reading: An individual differences approach. Poster presented at the 56th annual meeting of the Psychonomic Society. Chicago, IL.
- Lowder, M. W.**, & Ferreira, F. (March 2015). Prediction in the processing of repair disfluencies. Paper presented at the 28th annual CUNY Conference on Human Sentence Processing. University of Southern California, Los Angeles, CA.
- Pancani, G. C., Gordon, P. C., Hoedemaker, R. S., **Lowder, M. W.**, & Moore, M. (March 2015). Eye-movements during reading and their relationship to the P200 and N400. Paper presented at the 28th annual CUNY Conference on Human Sentence Processing. University of Southern California, Los Angeles, CA.
- Lowder, M. W.**, & Gordon, P. C. (March 2015). Effects of intervening NPs and structure on processing of grammatical agreement. Poster presented at the 28th annual CUNY Conference on Human Sentence Processing. University of Southern California, Los Angeles, CA.
- Lowder, M. W.**, & Gordon, P. C. (March 2015). Natural forces as agents: Reconceptualizing the animate-inanimate distinction. Poster presented at the 28th annual CUNY Conference on Human Sentence Processing. University of Southern California, Los Angeles, CA.
- Lowder, M. W.**, & Gordon, P. C. (March 2015). Corpus-based analysis of syntax-semantics interactions in complement coercion. Poster presented at the 28th annual CUNY Conference on Human Sentence Processing. University of Southern California, Los Angeles, CA.

- Choi, W., **Lowder, M. W.**, Ferreira, F., & Henderson, J. M. (March 2015). Language ability modulates the perceptual span in reading: Evidence from the moving window technique. Poster presented at the 28th annual CUNY Conference on Human Sentence Processing. University of Southern California, Los Angeles, CA.
- Lowder, M. W.**, & Gordon, P. C. (March 2014). Processing of grammatical agreement across clause boundaries. Poster presented at the 41st annual meeting of the North Carolina Cognition Group. Duke University, Durham, NC.
- Gordon, P. C., Moore, M., Choi, W., Hoedemaker, R. S., & **Lowder, M. W.** (March 2014). Individual differences in reading: Small-scale assessments with large-scale results. Poster presented at the 41st annual meeting of the North Carolina Cognition Group. Duke University, Durham, NC.
- Lowder, M. W.**, & Gordon, P. C. (March 2014). Effects of animacy and noun-phrase relatedness on processing of complex sentences. Poster presented at the 27th annual CUNY Conference on Human Sentence Processing. Ohio State University, Columbus, OH.
- Lowder, M. W.**, & Gordon, P. C. (March 2014). Increased linguistic focus leads to increased reading times. Poster presented at the 27th annual CUNY Conference on Human Sentence Processing. Ohio State University, Columbus, OH.
- Lowder, M. W.**, & Gordon, P. C. (March 2014). Processing of grammatical agreement across clause boundaries. Poster presented at the 27th annual CUNY Conference on Human Sentence Processing. Ohio State University, Columbus, OH.
- Gordon, P. C., Pancani, G. C., **Lowder, M. W.**, Hoedemaker, R. S., & Moore, M. (March 2014). Recognizing words during sentence processing: Behavioral and neural measures. Poster presented at the 27th annual CUNY Conference on Human Sentence Processing. Ohio State University, Columbus, OH.
- Lowder, M. W.**, & Gordon, P. C. (November 2013). Effects of animacy and noun-phrase relatedness on the processing of complex sentences. Poster presented at the 54th annual meeting of the Psychonomic Society. Toronto, Ontario, Canada.
- Lowder, M. W.**, & Gordon, P. C. (May 2013). Difficulty with figurative-language processing depends on sentence structure: The case of metonymy. (As part of symposium: Using eye movements to study on-line processing of figurative language). Paper presented at the 25th annual convention of the Association for Psychological Science. Washington, DC.
- Gordon, P. C., Choi, W., Hoedemaker, R. S., & **Lowder, M. W.** (May 2013). Individual differences in sentence processing: Separable effects of knowledge and processing skill. Poster presented at the 25th annual convention of the Association for Psychological Science. Washington, DC.

- Lowder, M. W.**, & Gordon, P. C. (March 2013). The experiments that we finished: Structural separation reduces the cost of complement coercion. Paper presented at the 26th annual CUNY Conference on Human Sentence Processing. University of South Carolina, Columbia, SC.
- Gordon, P. C., **Lowder, M. W.**, Besken, M., & Mulligan, N. (March 2013). How bizarre: Sentence processing and memory. Poster presented at the 26th annual CUNY Conference on Human Sentence Processing. University of South Carolina, Columbia, SC.
- Gordon, P. C., Choi, W., Hoedemaker, R. S., & **Lowder, M. W.** (March 2013). Individual differences in sentence processing: Separable effects of knowledge and processing skill. Poster presented at the 26th annual CUNY Conference on Human Sentence Processing. University of South Carolina, Columbia, SC.
- Lowder, M. W.**, & Gordon, P. C. (February 2013). The experiments that we finished: Structural separation reduces the cost of complement coercion. Paper presented at the 40th annual meeting of the North Carolina Cognition Group. North Carolina State University, Raleigh, NC.
- Lowder, M. W.**, & Gordon, P. C. (February 2012). Effects of sentence structure on figurative language processing: The case of metonymy. Paper presented at the 39th annual meeting of the North Carolina Cognition Group. University of North Carolina at Chapel Hill, Chapel Hill, NC.
- Lowder, M. W.**, & Gordon, P. C. (November 2011). Subject-verb integration: Effects of animacy and syntactic structure. Paper presented at the 52nd annual meeting of the Psychonomic Society. Seattle, WA.
- St. Jacques, P. L., Conway, M. A., **Lowder, M. W.**, & Cabeza, R. (August 2011). Two ways of accessing the personal past: An fMRI study examining the neural mechanisms of reliving during autobiographical memory retrieval. Paper presented at the 5th International Conference on Memory. York University, York, England.
- St. Jacques, P. L., Conway, M. A., **Lowder, M. W.**, & Cabeza, R. (April 2011). Two ways of accessing the personal past: An fMRI study examining the functional connectivity of the hippocampus during autobiographical memory retrieval. Poster presented at the 18th annual meeting of the Cognitive Neuroscience Society. San Francisco, CA.
- Lowder, M. W.**, & Gordon, P. C. (March 2011). Animacy and relative clauses: Separable effects within the RC and at the head. Paper presented at the 24th annual CUNY Conference on Human Sentence Processing. Stanford University, Palo Alto, CA.

Lowder, M. W., & Gordon, P. C. (February 2011). The burglar that the revolver shot: Animacy and relative clauses. Poster presented at the 38th annual meeting of the North Carolina Cognition Group. University of North Carolina at Greensboro, Greensboro, NC.

St. Jacques, P. L., Conway, M. A., **Lowder, M. W.**, & Cabeza, R. (April 2010). Self-reference and reliving during autobiographical memory retrieval are linked to dissociable ventral vs. dorsal regions: An fMRI study using a novel camera technology. Poster presented at the 17th annual meeting of the Cognitive Neuroscience Society. Montreal, Quebec, Canada.

St. Jacques, P. L., Conway, M. A., **Lowder, M. W.**, & Cabeza, R. (March 2010). Watching my mind unfold versus yours: An fMRI study using a novel camera technology to examine neural differences in self-projection of self versus other. Poster presented at the 20th annual Rotman Research Institute Conference. Toronto, Ontario, Canada.

Gordon, P. C., **Lowder, M. W.**, & Choi, W. (March 2010). Word recognition during reading: Effects of lexical repetition and word frequency. Poster presented at the 23rd annual CUNY Conference on Human Sentence Processing. New York University, New York, NY.

Gordon, P. C., **Lowder, M. W.**, & Choi, W. (February 2010). Word recognition during reading: The interaction between lexical repetition and word frequency. Poster presented at the 37th annual meeting of the North Carolina Cognition Group. Wake Forest University, Winston-Salem, NC.

St. Jacques, P. L., **Lowder, M. W.**, Rubin, D. C., & Cabeza, R. (October 2009). Neural correlates of temporal-context vs. item memory for autobiographical events: An fMRI study using a novel photo paradigm. Poster presented at the 39th annual meeting of the Society for Neuroscience. Chicago, IL.

Cabeza, R., St. Jacques, P. L., **Lowder, M. W.**, & Conway, M. A. (November 2008). Reliving autobiographical memories for everyday events: An fMRI study using a novel SenseCam technology. Paper presented at the 38th annual meeting of the Society for Neuroscience. Washington, DC.

Burk, J. A., Altemose, K. E., & **Lowder, M. W.** (April 2008). Effects of cueing on visual discrimination performance of rats following loss of corticopetal cholinergic neurons. Poster presented at the Janelia Farms Conference "Neural Circuits and Decision-Making in Rodents." Ashburn, VA.

Burk, J. A., Altemose, K. E., & **Lowder, M. W.** (November 2007). Effects of cueing on visual discrimination performance of rats following loss of basal forebrain corticopetal cholinergic neurons. Poster presented at the 37th annual meeting of the Society for Neuroscience. San Diego, CA.

- Singer, S. A., **Lowder, M. W.**, Lupo, A. M., Soldan, A., & Stevens, J. A. (October 2007). Stroke survivors with hemiparesis: Cortical activity shows evidence of intact motor representations. Poster presented at the Neuroscience Symposium. College of William and Mary, Williamsburg, VA.
- Ball, C. T., Carlson, K. D., Hennessey, J. A., Jones, H. M., Kirsch, G. J., Pastva, A. M., Thomas, P. A., Wheeling, A. L., & **Lowder, M. W.** (May 2007). Rapid eye-movements do influence memory consolidation. Poster presented at the 19th annual convention of the Association for Psychological Science. Washington, DC.
- Lowder, M. W.**, Singer, S. A., Lupo, A. M., Soldan, A., & Stevens, J. A. (March 2007). Cortical activity mediating motor representations in stroke survivors. Poster presented at the 34th annual meeting of the North Carolina Cognition Group. University of North Carolina at Chapel Hill, Chapel Hill, NC.
- Marzuk, J., **Lowder, M. W.**, & Burk, J. A. (October 2006). Effects of loss of basal forebrain corticopetal cholinergic neurons on visual attentional performance. Poster presented at the Undergraduate Research Symposium. College of William and Mary, Williamsburg, VA.
- Lowder, M. W.**, & Jennings, J. M. (February 2006). Understanding the implicit false memory effect: Aging, perceptual identification, and explicit contamination. Poster presented at the 33rd annual meeting of the North Carolina Cognition Group. University of North Carolina at Greensboro, Greensboro, NC.

PROFESSIONAL SERVICE

Ad hoc reviewer: Journals

Cognition

Cognitive Psychology

Cognitive Science

Frontiers in Psychology

Journal of Experimental Psychology: General

Journal of Experimental Psychology: Learning, Memory, and Cognition

Journal of Memory and Language

Journal of Pragmatics

Language and Speech

Language, Cognition and Neuroscience

Memory & Cognition

Neuropsychologia

Psychological Science

Quarterly Journal of Experimental Psychology

The Open Psychology Journal

Translation and Interpreting Studies

July, 2017

Ad hoc reviewer: Conferences

Architectures and Mechanisms for Language Processing (AMLaP)
CUNY Conference on Human Sentence Processing
Psychonomic Society Graduate Travel Award