

BARBARA LUKA
Curriculum Vitae

Assistant Professor of Psychology • Bard College
30 Campus Road Annandale-on-Hudson, NY 12504
Luka@bard.edu (845) 758-7223
<http://inside.bard.edu/~luka>

RESEARCH AREAS

Language Comprehension and Memory; Context-sensitivity of language processing
Cognitive Psychophysiology using Event-related Potentials (ERPs, especially the N400)
Grounded Cognition; Cognitive Linguistics (especially metaphor comprehension)

ACADEMIC EMPLOYMENT

Assistant Professor, Psychology Program, Bard College, 2005–present
Director of the Mind, Brain, & Behavior Program, Bard College, 2012–present
Visiting Assistant Professor, Psychology Program, Bard College, 2003–05
Research Associate, Event-Related Potential Laboratory, University of Arizona, 2000–03
Research Associate, Institute for Mind and Biology, University of Chicago, 1999–2000
Adjunct Faculty, Psychology Department, Saint Xavier University, Spring 1999
Adjunct Faculty, Communications Department, DePaul University, 1998–2000
Teaching Assistant, University of Chicago, Fall 1996–Spring 1999

EDUCATION

PhD in Psychology and Linguistics (dual-degree program), University of Chicago, 1999
BA in Linguistics (student-designed major), Lawrence University, 1989

GRANTS, FELLOWSHIPS, AND AWARDS

Grant, Bard Research Fund, \$4,720, 2013-1014
Bard Summer Research Institute Award, \$2,750 (student stipend), Summer 2012
Bard Summer Research Institute Award, \$6,400 (2 student stipends); \$1,000 (software),
Summer 2009
Northeast Center for Special Care, Student Internship Award, \$5,000, Co-Sponsor V. Zelek
Grant, Bard Research Fund, \$15,056, 2006–07
Mellon Grant for Career Enhancement in Teaching and Curriculum, \$1,150, 2006

GRANTS, FELLOWSHIPS, AND AWARDS (continued)

Freeman Foundation Grant, \$3,200, Summer 2005

Conference on Conceptual Structure, Discourse and Language (CSDL-4) Travel Grant, merit-based award, 1998

Graduate Research Grant, University of Chicago, Dept. of Psychology, 1998

Graduate Research Funding, University of Chicago, Dept. of Psychology, 1995, 1996

Travel Fellowship, University of Chicago, Dept. of Linguistics, 1995, 1998, 1999

University of Chicago Tuition Fellowship, 1991–95

Summer Institute Fellowship, First International Summer Institute for Cognitive Science, University at Buffalo, 1994

CIC Fellowship, intensive Hungarian language study, University of Indiana, 1993

Watson Fellow, Hungarian herbal and folk medical practice, 1989–90

PUBLICATIONS (*indicates student co-author)

Luka, B. J., & Van Petten, C. (under review). Prospective and retrospective semantic processing: Prediction, time, and relationship strength in event-related potentials.

*Maquilan, M. & Luka, B.J. (in revision). Differential perception of pitch-ambiguous stimuli in Filipino and American listeners: The Tritone Paradox with new methods of data analysis.

Luka, B. J., & Van Petten, C. (in press). Gradients versus dichotomies: How strength of semantic context influences event-related potentials and lexical decision times. *Cognitive, Affective, and Behavioral Neuroscience*.

Van Petten, C. & Luka, B. J. (2012). Prediction during language comprehension: Benefits, costs, and ERP components. *International Journal of Psychophysiology*, 83, 176-190. [Journal five-year impact factor from Web of Science: 2.694]

Luka, B. J. & *Choi, H. (2012). Dynamic grammar in adults: Incidental learning of natural syntactic structures extends over 48 hours. *Journal of Memory and Language*, 66, 345-360. [Journal five-year impact factor from Web of Science: 4.169]

*Hoener, C., Stiles, W.B., Luka, B.J., & Gordon, R.A. (2012). Client experiences of agency in therapy. *Person-Centered & Experiential Psychotherapies*, 11(1), 64-82.

Luka, B. J. (2011). Autolexical Grammar and the neurological substrates of language processing: Mismatch and resolution of semantic and syntactic representations. E. Yuasa, T.

PUBLICATIONS (continued; *indicates student co-author)

Bagchi, and K. Beals (Eds.) *Pragmatics and Autolexical Grammar. In honor of Jerry Sadock.* Amsterdam: John Benjamins, pp. 315-335.

Luka, B., *Nucz, E., *Bova, P., & *Katsman, A. (2010). Do Emotion Words Prime Figurative Meanings? An Investigation of Anger, Fear, Happiness, and Sadness. *Proceedings of the Fourth International Conference on Cognitive Science.* Tomsk, Russia: University of Tomsk, pp. 71-74.

Van Petten, C. & Luka, B. J. (2006). Neural localization of semantic context effects in electromagnetic and hemodynamic studies, *Brain and Language*, 97, 279–293. [Journal five-year impact factor from Web of Science: 3.342]

Luka, B. J. & Barsalou, L. W. (2005). Structural facilitation: Mere exposure effects for grammatical acceptability as evidence for syntactic priming in comprehension. *Journal of Memory & Language* 52(3): 436–459. [Journal five-year impact factor from Web of Science: 4.169]

Luka, B. J. (2005). A cognitively plausible model of linguistic intuitions. In, S. S. Mufwene, E. Francis, & R. Wheeler (Eds.), *Polymorphous Linguistics: Jim McCawley's legacy.* Cambridge, MA: MIT Press, pp. 479–502.

Crawford, L. E., Luka, B. J., Cacioppo, J. T. (2002). Social Psychology: Independent, interactive and reciprocal influences of social context. Pashler, H. and Gallistel, R. (Eds.), *Stevens' Handbook of Experimental Psychology, Third Edition, Volume Three: Learning, Motivation, and Emotion*, 737–799. New York: John Wiley & Sons, Inc.

Van Petten, C., Luka, B. J., Rubin, S. R., and Ryan, J. P. (2002). Frontal brain activity predicts individual performance in an associative memory exclusion test. *Cerebral Cortex*, 12 (11): 1180–1192. [Journal five-year impact factor from Web of Science: 7.058]

Luka, B. J. (2000). Syntactic judgment fatigue: When metacognition and linguistic data crash and burn. *Papers from the Tenth Student Conference in Linguistics* (MIT Working Papers in Linguistics, Vol. 37), Cambridge, MA: MITWPL, pp. 151–165.

Luka, B. J. & Barsalou, L. W. (1998). The role of sentence priming on the implicit memory of syntactic structures. *Proceedings of the Twentieth Annual conference of the Cognitive Science Society.* Hillsdale, NJ: Lawrence Erlbaum Associates, p. 1240.

PUBLICATIONS (continued)

Luka, B. J. (1998). Example sentences in syntax articles: The influence of asterisks and affinity toward author. *Proceedings of the 34th Annual Meeting of the Chicago Linguistic Society*. University of Chicago: Chicago Linguistic Society, pp. 269–280.

Luka, B. J. (1997). PC-Kimmo for Fox: A Computational Tool for the Morphological Parsing of Fox Texts. In Pentland, D. (ed.), *Papers of the 27th Algonquian Conference*. Winnipeg: University of Manitoba, pp. 172–187.

Luka, B. J. (1996). Have we found English yet? Investigating linguistic experience and introspection. In Przedziecki, M. and Whaley, L. (Eds.), *ESCOL '95. Proceedings of the Twelfth Eastern States Conference on Linguistics*. Ithaca: Cornell University, pp. 183–194.

Barsalou, L. W., Yeh, W., Luka, B.J., Olseth, K.L., Mix, K.S., & Wu, L. (1993). Concepts and meaning. In Beals, K., Cooke, G., Kathman, D., McCullough, K.E., Kita, S., & Testen, D. (Eds.), *What we think, what we mean, and how we say it: Papers from the parasession on the correspondence of conceptual, semantic and grammatical representations*. University of Chicago: Chicago Linguistics Society, pp. 23–61.

EDITED VOLUMES

Ceinki, A., Luka, B. J., and Smith, M. (Eds.) (2001). *Conceptual and discourse factors in linguistic structure*. Stanford: CSLI Publications.

Dainora, A., Hemphill, R., Luka, B., Need, B., Pargman, S. (Eds.) (1995). *Chicago Linguistics Society 31: Main and Parasession Volumes*. University of Chicago: Chicago Linguistics Society.

MANUSCRIPTS

Luka, B. J., *Benowitz, A., & *Rich, L. (in preparation). Declarative memory and Remember/Know judgments for syntactic patterns.

Luka, B. J., & Van Petten, C. (in preparation). The time course of cognitive processes distinguishes the conceptual integration of different types of lexical associations: Early prefrontal, N400, and late positive components.

Luka, B. J., *Woodward, H., *Carter, A., *Min, J., *Opojevici, O. and *Brennan, E. (in preparation). Does similarity have primacy? A comparison of similarity, event scripts, and phrasal relatedness in lexical decision and naming.

CONFERENCE PRESENTATIONS

- Luka, B. J., & *Rich, L., & *Benowitz, A. (2013, November). Learning Grammatical Structure: Direct versus Indirect Memory Tests. Poster presented at the annual meeting of the Psychonomic Society. (Toronto, CA).
- Van Petten, C., & Luka, B. J. (2013, November). Strength of Semantic Association Influences N400 Amplitude but Not Lexical Decision Times. Poster presented at the annual meeting of the Psychonomic Society. (Toronto, CA).
- Luka, B. J., & *Rich, L., & *Benowitz, A. (2013, May). Do You Remember What You're Reading? Indirect Tests and Declarative Sentence Memory. Poster presented at the annual meeting of the Association for Psychological Science. (Washington, DC).
- Van Petten, C., Luka, B.J., & Thornhill, D.E. (2012, Sept) Lexical versus Conceptual Anticipation During Sentence Processing: Frontal Positivity and N400 ERP Components. (Talk presented at the annual meeting of the Society for Psychological Research. (New Orleans, LA).
- *Balaton, A., Luka, B., & *Nucz, E. (2011, May). Conceptual Metaphors of Emotion: Priming and Recognition Memory for Figurative Expressions. Poster presented at the annual meeting of the Association for Psychological Science. (Washington, DC).
- Luka, B., *Nucz, E., *Bova, P., and *Katsman, A. (2010, June). Do Emotion Words Prime Figurative Meanings? An Investigation of Anger, Fear, Happiness, and Sadness. Talk presented at the Fifth International Meeting of the Cognitive Science Society (Tomsk, Russia).
- *Maquilan, M., and Luka, B. J. (2009, August). Differential perception of pitch-ambiguous stimuli in Filipino and American listeners: The Tritone Paradox with new methods of data analysis. Poster presented at the Biennial Conference of Society for Music Perception and Cognition.
- Luka, B. J. (2008, October). Visualizing meaning in Cognitive Neuroscience. Presentation as part of panel discussion "Invoking Visualizations for Scientific Pedagogy (Plenary)." NITLE 2008—Expeditions in Scientific Visualization.
- Luka, B. J. (2008, October). Lost dimensions and the importance of perspective. Presentation as part of panel discussion "Aesthetics and Function of Visualization in Art and Science." NITLE 2008—Expeditions in Scientific Visualization.

Luka, B. J. and *Choi, H. (2007, May). Structural priming in language comprehension is long lasting. Poster presented at the annual meeting of the Association for Psychological Science.

Luka, B. J., *Woodward, H., *Carter, A., *Min, J., *Opojevici, O. and *Brennan, E. (2007, April). Does meaning matter? An investigation of semantic relatedness. Poster presented at the University of Scranton Psychology Conference.

Hoener*, C., Stiles, W. B., Luka, B. J., & Gordon, R. A. (2007, April). Agency in psychotherapy: A qualitative inquiry of client experiences. Paper presented at the Ohio Society for Psychotherapy Research meeting, Oxford, OH.

Luka, B. J. (2006, August). Long-lasting structural priming in language comprehension. Talk presented at the Eleventh Annual Meeting of the Cognitive Science Association for Interdisciplinary Learning (CSAIL 11).

Luka, B. J., Van Petten, C., and Macizo, P. (2006, May). Behavioral and electrophysiological measures of associative relatedness: association strength modulates amplitude of the N400, but perhaps not reaction time. Poster presented at the annual meeting of the Association for Psychological Science.

Luka, B. J., Van Petten, C., and Macizo, P. (2005, September). Behavioral and electrophysiological measures of associative relatedness: association strength modulates amplitude of the N400, but perhaps not reaction time. Poster presented at the 9th International meeting on Cognitive Neuroscience (ICON9).

Luka, B. J. and Van Petten, C. (2003, January). Qualitative types of relatedness: ERP differences for semantic similarity versus lexical contiguity. Poster presented at the *Linguistic Society of America Annual Meeting*, Atlanta, GA.

Luka, B. J. and Van Petten, C. (2002, April). Qualitative versus quantitative measures of semantic relationship: Electrophysiological interactions. Poster presented at the *Cognitive Neuroscience Society Annual Meeting*, San Francisco, CA.

Luka, B. J. (2000, May). Linguistic intuitions as evaluative categorizations. Paper presented at the *2000 Midwest Psychological Association*, session on implicit learning, Chicago, IL.

Luka, B. J. (1999, September). Where do linguistic intuitions come from? New experiments on interaction with conscious processes. Poster presented at AMLaP-99 (Architectures and Mechanisms for Language Processing), Edinburgh, Scotland.

Luka, B. J., and Barsalou, L. W. (1999, May). Is syntactic priming evidence for implicit memory of syntactic structures? Paper presented at the *1999 Midwest Psychological Association*, session on implicit learning, Chicago, IL.

Luka, B. J. (1999, March). Is syntactic priming evidence for implicit memory of syntactic structures? Poster presented at the *1999 CUNY Sentence Processing Conference*, New York, NY.

Luka, B. J. (1999, January). Where do linguistic intuitions come from? Paper presented at the *1999 Annual Meeting of the Linguistic Society of America*, Los Angeles, CA.

Luka, B. J. & Barsalou, L. W. (1998, October). Syntactic accommodations in discourse and the implicit memory for syntactic structures. Paper presented at *CSDL-4*, Atlanta, GA.

Luka, B. J. & Barsalou, L. W. (1998, August). The role of sentence priming on the implicit memory of syntactic structures. Poster presented at *COGSCI'98*, Madison, WI.

Luka, B. J. (1998, May). Implicit rules and sentence frames. *Multidisciplinary Colloquium on Rules and Rule-Following: Philosophy, Linguistics and Psychology*, Janus Pannonius University Pecs, Hungary.

Luka, B. J. (1998, May). Judgments of grammatical acceptability in the context of published linguistic articles on syntactic theory: The influence of asterisks and author affinity. Paper presented at the *34th Annual Meeting of the Chicago Linguistic Society*, Chicago, IL.

Luka, B. J. (1998, April). Relativistic minimality and *conditions de (peut-être) bonne formation*. Paper presented at the *High Desert Linguistic Society First Annual Meeting*, Albuquerque, NM.

Luka, B. J. (1998, February). Familiarity breeds acceptance: Sentence priming and implicit memory for syntax. Paper presented at *Psychfest '98*, Chicago, IL.

Luka, B. J. (1995, November). Biases in syntactic categorization: Implications for psychologically-plausible models of grammar. Paper presented at the annual *Eastern States Conference on Linguistics (ESCOL)*, Dartmouth University, Dartmouth, NH.

Luka, B. J. (1995, October). A finite state analysis of Fox morphophonology. Paper presented at the *Twenty-Third Conference of Algonquian Languages*, Chapel Hill, NC.

OTHER PRESENTATIONS

Luka, B. J. (2012, October 25). Predictive Processes in Language Comprehension: Evidence from Event-related Potentials. Harvest Day: Research results from Psychology from the past year.

Luka, B. J. (2012, October 17). Paradigm shift in linguistic analysis: Language learning in monolingual adults. Faculty Seminar Series, Bard College.

*Conant, M. & Luka, B. (April 2011). Using the Implicit Association Test to Study Metaphors of Emotion. Poster presented at the Mid-Hudson Psychology Research Conference. (Vassar College; Poughkeepsie, NY).

*Balaton, A., *Nucz, E., & Luka, B. (April 2011). Conceptual Metaphors of Emotion: Priming (LDT) and Recognition Memory for Figurative Expressions. Poster presented at the Mid-Hudson Psychology Research Conference. (Vassar College; Poughkeepsie, NY).

*Casal-Roscum, L. & Luka, B. (April 2011). Kafka's Language: Meaning Maintenance and Structural Facilitation. Poster presented at the Mid-Hudson Psychology Research Conference. (Vassar College; Poughkeepsie, NY).

Luka, B. J. (2009, April 15). The Tritone Paradox and metaphors of fear. Faculty Seminar Series, Bard College.

Luka, B. J. (2009, March 19). The cognitive representation of syntax: A response to the biolinguistic program. Psychology Colloquium, Bard College.

Luka, B. J. (2007, February 8). Word and sentence: Psycholinguistic research with Bard students. Psychology Colloquium, Bard College.

Luka, B. J. (2006, L&T Lecture Series). Cognitive Science. Learning & Thinking Workshop.

Luka, B. J. (2005, L&T Lecture Series). Cognitive Science. Learning & Thinking Workshop.

Luka, B. J. (2004, April 14). The association of ideas. Faculty Seminar Series, Bard College.

Luka, B. J. (2004, November 1). The representation of syntactic knowledge in memory: Evidence of priming in sentence comprehension. Faculty Seminar Series, Bard College.

PROFESSIONAL SERVICE

Reviewer (Journal manuscripts)

Brain and Cognition
Brain and Language
Brain Sciences
Journal of Cognitive Neuroscience
Journal of Neurolinguistics
Journal of the Royal Society Interface
Language and Linguistics Compass
Neuropsychologia
Psychological Science
Psychophysiology
Quarterly Journal of Experimental Psychology

Reviewer (Textbooks)

Oxford University Press
Sage
Wiley-Blackwell
Thomson/Wadsworth

PROFESSIONAL AFFILIATIONS

Association for Psychological Science
Cognitive Neuroscience Society
Cognitive Science Society
Linguistic Society of America
Psychonomic Society
Society for Personality and Social Psychology
Society for Psychophysiological Research
Society for the Teaching of Psychology
Women in Cognitive Science