

CURRICULUM VITAE

MARY L. HARE

EDUCATION

University of California, San Diego

Ph.D. in Cognitive Science (1990)

Thesis: Phonological Representation and Processing in Connectionist Networks.

State University of New York at Buffalo

B.A. in French

RESEARCH EXPERIENCE

Associate Professor (2004-present)

Department of Psychology, Bowling Green State University, Ohio

Assistant Professor (1998 - 2004)

Department of Psychology, Bowling Green State University, Ohio

NIH Postdoctoral Research Fellow (1994 - 1998)

Center for Research in Language, University of California, San Diego.

British Economic and Social Sciences Research Council (ESRC) Research Fellow

(1991 - 1994) Speech and Language Laboratory, Birkbeck College, University of London

RESEARCH INTERESTS

Psycholinguistics

Computational modeling

Connectionism

Sentence processing

Morphology

RESEARCH GRANTS

External Grants

***Title:* Expectation Generation in Sentence Processing**

NIDCH proposal HD53136-06A1 (competitive renewal of MH60517)

Role: Co-PI (with K. McRae, UWO; J. Elman, UCSD)

Funding Source: National Institute of Human Development

Total direct costs: \$888,750

BGSU direct costs: \$300,000

Status: Funded

Title: Expectation Generation in Sentence Processing.

NIMH proposal RO1 MH60517-01.

Role: Co-PI (with K. McRae, UWO; J. Elman, UCSD)

Funding Source: National Institute of Mental Health

Total direct costs: \$625,000

BGSU direct costs: \$170,000

Status: Funded; expiring 6/30/07

Internal Grants

Title: Experimental and Computational Studies of Sentence Processing

Role: Principal Investigator

Funding Source: Bowling Green State University

Funding Dates: Summer 1999

Dollar Amount: \$5,500

Title: Travel grant

Role: Principal Investigator

Funding Source: Bowling Green State University

Funding Dates: March 2000

Dollar Amount: \$400

PUBLICATIONS

Tanenhaus, M.K., and Hare, M. (2007). Phonological typicality and sentence processing. *Trends in Cognitive Science*, 11, 93-95.

Hare, M., Tanenhaus, M.K., and McRae, K. (2007). Understanding and producing the reduced relative construction: Evidence from ratings, editing, and corpora. *Journal of Memory and Language*, 56, 410-435.

McRae, K., Hare, M.L., Elman, J.E., and Ferretti, T. (2005). A basis for generating expectancies for verbs from nouns. *Memory and Cognition*, 33, 1174-1184.

McRae, K., Hare, M.L., and Tanenhaus, M.K. (2005). Understanding the comprehension of reduced relatives requires a constraint-based approach: A critique of McKoon and Ratcliff (2003). *Psychological Review*, 112 (4), 1022-1031.

Hare, M.L., McRae, K., and Elman, J.L. (2004). Admitting that admitting sense into corpus analyses makes sense. *Language and Cognitive Processes*, 19, (2), 181-224.

Elman, J., Hare, M.L., and McRae, K. (2004). The Competition Model in syntax. In Tomasello, M., and Daniel Slobin (eds.), *Essays in honor of Elizabeth Bates*. Princeton, N.J.: Lawrence Erlbaum.

- Hare, M.L., McRae, K., and Elman, J.L. (2003). Sense and Structure: Meaning as determinant of verb subcategorization preferences. *Journal of Memory and Language*, 48, 2, 281-303.
- Hare, M.L., Ford, M., and Marslen-Wilson, W.D. (2001). Ambiguity and Frequency Effects in Regular Verb Inflection. In Bybee, Joan and Paul Hopper (eds.). *Frequency and the emergence of linguistic structure*. Amsterdam: John Benjamins.
- Hare, M.L. and Elman, J.L. (1995) Learning and Morphological Change. *Cognition*, 56, 61-98.
- Hare, M.L., Elman, J.L. and Daugherty, K.G. (1995). Default Categorization in Connectionist Networks. *Language and Cognitive Processes*, 10, (6), 601-630.
- Gaskell, G., Hare, M.L., and Marslen-Wilson, W. (1995). A Connectionist Model of Phonological Representation in Speech Perception. *Cognitive Science*, 19, 407-439.
- Hare, M.L. (1995) Language Change. In M. Arbib (Ed.) *Handbook of Brain Theory and Neural Networks*. Cambridge, Mass.: Bradford Books.
- Daugherty, K.G., and Hare, M.L. (1994) What's in a rule? Or, the past tense by any other name might be a connectionist net. In M.C. Mozer, P. Smolensky, D.S. Touretsky, J.L. Elman, and A.S. Weigend (Eds.) *Proceedings of the 1993 Connectionist Models Summer School*. Hillsdale, N.J.: Erlbaum Associates.
- Moss, H.E., Hare, M.L., Day, P., and Tyler, L.K (1994). A distributed memory model of the associative boost in semantic priming. *Connection Science*, 6, 4, 413-428.
- Plunkett, K., and Hare, M.L. (1991) Motivating Connectionist Phonology. *Neural Network Review* 4, No. 2
- Hare, M.L. (1990). The Role of Similarity in Hungarian Vowel Harmony: A Connectionist Account. *Connection Science*, 2, Nos. 1 & 2.

Submitted

- Kielar, A., Joanisse, M. F., and Hare, M. (submitted). Priming English Past Tense Verbs: Rules or Statistics? *Journal of Memory and Language*.
- Hare, M., Thomson, C., Kelly, S., and McRae, K. (submitted). Activating Event Knowledge. *Cognition*.
- Roland, D., and Hare, M.L. (to appear). Computational Models of Sentence Processing. In Spivey, M. and McRae, K. (eds). *Cambridge Handbook of Psycholinguistics*. Cambridge University Press, Cambridge, UK.

Peer reviewed conference proceedings

- McRae, K., Hare, M., Ferretti, T. R., & Elman, J. L. (2001). Activating verbs from typical agents, patients, instruments, and locations via event schemas. In *Proceedings of the 23rd Annual Meeting of the Cognitive Science Society*. Princeton, N.J.: Erlbaum.
- Hare, M.L. and Goldberg, A. (1999) Syntactic priming: Purely Syntactic? In *Proceedings of the 21st Annual Meeting of the Cognitive Science Society*. Princeton, N.J.: Erlbaum.
- Elman, J., and Hare, M.L (1997) Single Mechanism = Single Representation? No!! In *Proceedings of the 19th Annual Meeting of the Cognitive Science Society*. Princeton, N.J.: Erlbaum.
- Hare, M.L., and Marslen-Wilson, W.D. (1997) Past Tense Priming in an Auto-Associative Network. In *Proceedings of the 19th Annual Meeting of the Cognitive Science Society*. Princeton, N.J.: Erlbaum.
- Davis, M., Marslen-Wilson, W., and Hare, M.L. (1996) Representing Regularity: The English Past Tense. In *Proceedings of the 18th Annual Meeting of the Cognitive Science Society*. Princeton, N.J.: Erlbaum.
- Hare, M., Ford, M., Older, L., and Marslen-Wilson, W.D. (1995) Frequency, Competition, and Past Tense Homophones. In *Proceedings of the 17th Annual Meeting of the Cognitive Science Society*. Princeton, N.J.: Erlbaum.
- Marslen-Wilson, W.D., Hare, M.L., and Older, L. (1993) Inflectional Morphology and Phonological Regularity in the English Mental Lexicon. *Proceedings of the 15th Annual Meeting of the Cognitive Science Society*. Princeton, N.J.: Erlbaum.
- Hare, M.L. and Elman, J.L. (1993). From *wear*ed to *wore*: A connectionist model of language change. *Proceedings of the 15th Annual Meeting of the Cognitive Science Society*. Princeton, N.J.: Erlbaum.
- Hare, M.L. and Elman, J.L. (1992) A connectionist account of English inflectional morphology: Evidence from language change. *Proceedings of the 14th Annual Meeting of the Cognitive Science Society*. Princeton, N.J.: Erlbaum.
- Hare, M.L. (1990) Constraints on Assimilation in Vowel Harmony Languages. *Proceedings of the 12th Annual Meeting of the Cognitive Science Society*. Princeton, N.J.: Erlbaum.
- Hare, M.L. (1989) *Vowel Epenthesis in Turkish*. Proceedings of the 15th Meeting of the Berkeley Linguistics Society.

OTHER CONTRIBUTED CONFERENCE PRESENTATIONS

- Kelley, A., Owsianecki, L., and Hare, M. (2006, March) Event based knowledge in children. Poster in the Symposium on research in Psychiatry, Psychology and Behavioral Sciences, Medical University of Ohio, Toledo, Ohio.
- Kelley, A., Owsianecki, L., and Hare, M. (2006, May). Event based knowledge in childhood and early adolescence. Talk at the Midwest Psychological Association Conference, Chicago, Illinois.
- Gooding, C., Small, L. and Hare, M. (2005, November). Children's use of context to resolve lexical ambiguities. Poster presented at the annual meeting of the American Speech, Language, and Hearing Association, San Diego, CA.
- Hare, M., Tanenhaus, M.K., and McRae, K (2005, November). External/Internal status explains neither the frequency of occurrence nor the difficulty of Comprehending reduced relative clauses. Talk presented at the 46th annual meeting of the Psychonomic Society Meeting, Toronto, Ontario, Canada.
- Hare, M., Tanenhaus, M.K., and McRae, K (2005, September). Ambiguity resolution and passive occurrence, not internal and external cause, determine the production and comprehension of reduced relative constructions. Talk presented at the Annual Conference on Architectures and Mechanisms of Language Processing (2005), Ghent, Belgium.
- Kielar, A., Joanisse, M., Hare, M., and Seidenberg, J (2004, November). Past Tense priming: Rules and Exceptions or Phonology and Semantics. Talk presented at the 45th annual meeting of the Psychonomic Society Meeting, Minneapolis, MN. (presented by M. Hare)
- McRae, K. and Hare, M.L. (2004, August). Event-based Priming. Poster presented at the 26th Annual Meeting of the Cognitive Science Society, Chicago, IL.
- Hare, M. L., McRae, K., & Elman, J. L. (2003, March). Admitting that admitting verb sense into corpus analyses makes sense of inconsistent results. Poster presented at the Sixteenth Annual Conference on Human Sentence Processing, Boston, MA.
- McRae, K., Hare, M. L., Roland, D., & Elman, J. L. (2003, March). Implementing the resolution of the temporary DO/SC ambiguity. Poster presented at the Sixteenth Annual Conference on Human Sentence Processing, Boston, MA.
- McRae, K., Hare, M. L., & Elman, J. L. (2002, September). An implemented constraint-based model of DO/SC ambiguity resolution. Poster presented at the Annual Conference on Architectures and Mechanisms of Language Processing (2002),

Tenerife, Spain.

- McRae, K., Hare, M., Ferretti, T. R., Merrill, M., & Elman, J. L. (2000, November) Priming events from typical agents, patients, instruments, and locations. Paper presented at the Forty-First Annual Meeting of the Psychonomic Society, New Orleans, LA.
- Hare, M.L., Elman, J.L., and McRae, K. (2000, September) Verb sense as a determinant of subcategorization choice: Experimental and modeling evidence. Paper presented at the Annual Conference on Architectures and Mechanisms of Language Processing (2000), Leiden, NL.
- Hare, M.L., Elman, J.L., and McRae, K. (2000, April) Sense & structure: meaning as a determinant of verb subcategorization preferences. Paper presented at the Thirteenth Annual Conference on Human Sentence Processing, La Jolla, CA.
- Hare, M.L., Ford, M., Older, L., and Marslen-Wilson, W.D. (1998) Ambiguity and frequency effects in regular verb inflection. *International Conference on the Mental Lexicon*, Edmonton, Alberta.
- Hare, M.L., Older, L. and Marslen-Wilson, W.D. (1993) Phonological Regularity and Morphological Structure. *International Conference on the Psychology of Language and Communication*, University of Glasgow, Scotland.
- Hare, M.L. (1993). Productivity in Inflectional Morphology. In the *Symposium on (Quasi) Systematicity and (Non) Compositionality in Language*, W. Croft and S. Rice, co-chairs. 15th Annual Meeting of the Cognitive Science Society, University of Colorado at Boulder.
- Hare, M.L., Elman, J.L., and Daugherty, K. (1992). Default Categories in Connectionist Networks. *Experimental Psychology Society*, University of York, England.
- Hare, M.L. (1991). Connectionism and Phonology. *AAAI Spring Symposium on Connectionist Natural Language Processing*, Stanford University, California. March 1991.
- Hare, M.L. (1990). The role of trigger-target similarity in the vowel harmony process. *16th Meeting of the Berkeley Linguistic Society*.
- Hare, M.L. (1989). Conditions on Vowel Assimilation in a Connectionist Network. 1989 *Meeting of the Linguistic Society of America*, Washington, D.C..
- Hare, M.L. (1989). On Vowel Length and Syllable Structure in Turkish. *4th Meeting of the Pacific Linguistics Conference*, Eugene, Oregon.
- Hare, M.L. (1989). Vowel Epenthesis in Turkish. *15th Meeting of the Berkeley Linguistics Society*.

INVITED SEMINARS AND LECTURES

Meaning, structure, and events in the world. Princeton University, October 2006.

Sense-structure interactions: evidence from comprehension and corpus norms. University of New York at Buffalo, October 2003.

Meaning and structure in syntactic ambiguity resolution. University of Illinois at Urbana-Champaign, Psycholinguistics talk series, November 2003

Semantics and association. University of Illinois at Urbana-Champaign, Cognition talk series, November 2003.

Admitting that admitting sense into corpus analyses makes sense. Center for Research in Language, UC San Diego, May 2003.

Subcategorization probabilities as a function of verb sense. University of York, UK, September 2000.

Verb sense and verb bias. Cognition and Brain Unit, Cambridge University, UK, September 2000.

The use of statistical probabilities in ambiguity resolution. Dept. of Psychology colloquium, University of Toledo, April 2000.

Frequency, ambiguity, and lexical competition. University of Western Ontario, February 2000.

Frequency effects in regular inflection. Workshop on Frequency and the Emergence of Linguistic Structure, Carnegie Mellon University, Pittsburgh, May 1999.

Ambiguity and frequency effects in regularly past tense verbs. University of California, Riverside, October 1997.

Some effects of gradient descent learning on morphological change over time. Institute for Neural Computation, UC San Diego, October 1995.

The role of learning in morphological change. Linguistics Department colloquium, U. of Alberta at Edmonton, May 1993.

On psychological models of inflectional morphology. Psychology Department colloquium, Free University Brussels, Belgium, October 1992.

Historical regularization in morphology. Psychology Department seminar, Oxford University, England. May 1992.

Single and Dual Mechanism Accounts of English Verb Inflection. Zangwill Club, Department of Psychology, Cambridge University, England. March 1992.

Using Artificial Neural Networks to Model Language Change. Computational Psychology Seminar Series, University College London, England, November 1991.

Invited participant in the *Interdisciplinary Workshop on Compositionality in Cognition and Neural Networks*, Abbaye de Royaumont, France. May 1991.

The Role of Similarity in Hungarian Vowel Harmony. PDP Natural Language Processing Group, Cognitive Science Department, UC San Diego. November 1989.

Learning of Syllabic Well-formedness Constraints in a Connectionist Network. Institute for Cognitive Science, University of Colorado, Boulder. January 1989.

SERVICE

Departmental

2005-2006

Graduate Committee

Chair, Experimental Psychology Graduate Student Admissions Committee

2006-2007

Member, Cognitive Neuroscience faculty search committee

University

2002-2006

Member, Human Subject Review Board

Professional

January 2006 – present

Member of Editorial Board, *Cognitive Science*

January 2005 - present

Member of Editorial Board, *Cognitive Linguistics*

External reviewer for:

Memory and Cognition

Journal of Memory and Language

Cognitive Science

Cognitive Linguistics

Grant proposal reviews:

National Science Foundation

Reviewed conference submissions:

Cognitive Science Society Meeting,

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

Cognitive Science Society

Psychonomic Society