

## CURRICULUM VITAE

Nadine Martin, Ph.D.

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Temple University  
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### EDUCATION

Hofstra University, Hempstead, N.Y.  
B.A., Speech Pathology and Audiology, Magna Cum Laude  
1974

Northeastern University, Boston, Mass.  
M.Ed., Speech and Language Pathology  
1975

Temple University  
Ph.D., Experimental Cognitive Psychology  
1987

### PROFESSIONAL EXPERIENCE

Speech and Language Pathologist  
CHARMSS Collaborative  
Stoughton, Mass.  
1975-1978

Consultant Speech Pathologist  
Waltham State Hospital  
Waltham, Mass.  
1976-77

Speech and Language Pathologist (Acting Chair, 1978-1979)  
Betty Bacharach Rehabilitation Hospital  
Pomona, N.J.  
1978-1980

Clinical Supervisor, Department of Speech Pathology and Audiology  
Stockton State College  
Pomona, N.J.  
1980-1982

Consultant Speech Pathologist  
Atlantic County Health Department  
Northfield, N.J.  
1980-1982

Consultant Speech Pathologist  
Associates in Rehabilitative Therapies  
Linwood, N.J.  
1981-1982

Research Assistant, Neuropsychology  
Center for Higher Brain Functions  
Temple University School of Medicine  
1982-1987

Research Neuropsychologist  
Center for Cognitive Neuroscience  
Temple University School of Medicine  
1987-1991

Assistant Professor of Neurology--Research  
Temple University School of Medicine  
1991-1997

Adjunct Assistant Professor of Psychology  
Temple University  
1993 -

Adjunct Associate Professor of Communication Sciences  
Temple University  
1993 - 2003

Adjunct Scientist  
Moss Rehabilitation Research Institute  
1995 -

Associate Professor of Neurology--Research  
Temple University School of Medicine  
1997-

Adjunct Associate Professor  
Speech-Language and Hearing Program  
La Salle University  
2001 -

Associate Professor of Communication Sciences  
Temple University  
2003 - 2009

Director, Center for Cognitive Neuroscience, Department of Communication  
Sciences, College of Health Professions  
Temple University  
2003-2006

Director, Eleanor M. Saffran Center for Cognitive Neuroscience, Department of  
Communication Sciences, College of Health Professions  
Temple University  
2006 –

Professor of Communication Sciences and Disorders  
Temple University  
2009-

## **HONORS**

Honorary Doctorate in Psychology  
Åbo Akademi University  
Turku, Finland  
May 23, 2014

## **PROFESSIONAL AFFILIATIONS**

Present: American Speech Language and Hearing Association,  
CCC-Speech #00499814-04, 1975--  
Academy of Aphasia, 1990—  
Organizer of the annual meeting, 1997  
Chair membership committee, 2002-3  
Program committee, 2003-2006  
Chair of program committee, 2006  
Board member, 2006-2009  
Academy of Neurologic Communication Disorders and Sciences 2010--  
Past: Psychonomic Society, 1993—2000

## **OTHER PROFESSIONAL ACTIVITIES**

### ***Journal Reviews***

Ad hoc reviewer: *Brain and Language, Cognitive Neuropsychology, Language and Cognitive Processes, Journal of Experimental Psychology: General, Neurocase, Journal of Memory and Language, Journal of Speech and Hearing Research, Psychological Science, Psychological Bulletin, Neuropsychologia, Neuropsychological Rehabilitation, Aphasiology, Clinical Linguistics and Phonetics, Cognitive and Behavioral Neurology, Journal of Rehabilitation Research and Development, International Journal of Neuropsychopharmacology, Journal of Clinical and Experimental Neuropsychology, International Journal of Communication Disorders, Brain, and others.*

### ***Journal Editing***

Guest editor: *Brain and Language* (Vol. 52, 1996). Special issue on Cognitive approaches to rehabilitation and recovery.

Guest co-editor: *Aphasiology*, Special issue on naming disorders. (Vol. 12, April, 1998).

Guest co-editor: *Aphasiology*, Special issue on aphasia rehabilitation (in press - 2005).

Guest Editor: *Brain and Language*, Special Academy of Aphasia abstract issue (October, 2006).

Guest Editor: *Seminars in Speech and Language*. (August 2008) this issue featured papers presented at the 2<sup>nd</sup> annual Eleanor M. Saffran Cognitive Neuroscience Conference, Temple University, September, 2007.

Consulting editor: *Journal of Speech and Hearing Research* (1995)

Editorial board member: *Brain and Language*. (1995--)

Editorial board member: *Aphasiology*, (2005--)

Guest Editor (with Jamie Reilly, Ph.D.) Special Issue of *Aphasiology*: Short-term memory/working memory impairments in aphasia: Data, models and their application to aphasia rehabilitation, *Aphasiology*, 26 (3/4) 253-257.

#### *Grant Reviews*

1996 - Ad hoc reviewer: NIH/NIDCD CMS study sections (R01, R03, R21, P30, NRSA)

1996 - Ad hoc reviewer: NIH/Human Development and Aging, Biological & Physiological Sciences, Special Emphasis Panels (Postdoctoral Fellowships, Small business initiatives).

2000 - Ad hoc reviewer: National Science Foundation, Human Cognition and Perception, 2000—

2004 - Ad hoc reviewer: NIH/NIGMS Minority Biomedical Research Support (MBRS) review panel for Behavioral Science, Support of Continuous Research Excellence (SCORE) program.

Reviewer for ASHA Foundation grants, August, 2006.

2008-2013 Member: NIH/NIDCD

Communication Disorders Review Committee. (4-year appointment was extended for an additional year to 2013).

2013 – Ad Hoc Reviewer NIH/NIDCD Special Emphasis Panels

#### ***Professional Meeting Organizational Activity***

Organizer of the Academy of Aphasia meeting in Philadelphia, 1997.

Co-organizer of the Aphasia Therapy Workshop, Vienna, Austria October 22-23, 2003.

Co-organizer of the 2nd meeting on Aphasia Rehabilitation, Lerici, Italy (June 11-13, 2005).

Organizer of the First Annual Eleanor M. Saffran Cognitive Neuroscience Conference, Temple University, September 8, 2006.

Program chair for the Academy of Aphasia annual meeting, October 2006 and guest

editor of *Brain and Language* special issue for this conference.

Organizer of the 2nd through 9<sup>th</sup> Annual Eleanor M. Saffran Cognitive Neuroscience Conferences, Temple University, September, 2007 - September 2013.

Member of Program Committee for Clinical Aphasiology Conference, 2011.

Program Committee Chair, Clinical Aphasiology Conference, 2014.  
Conference Chair, Clinical Aphasiology Conference, 2015

***Professional Advisory Board Memberships***

Elected to the Board of Governors, Academy of Aphasia, October 2006 (3 year term).

Member of Research Quality Assessment Panel for the University of Queensland School of Health and Rehabilitation Sciences. June, 2007.

Invited appointment on the Advisory Board of the Brain Rehabilitation Research Center Cognitive program (Center of Research Excellence within the Veterans Health Administration), Gainesville, Florida. December, 2004 –

Appointed member of the Research Scientific Affairs Committee of the American Speech-Language and Hearing Association. 1/1/2012 and ending 12/31/2014.

**RESEARCH GRANTS**

Principal Investigator: "The organization of lexical and phonological processes: Investigations of naming in normal and aphasic populations." McDonnell Foundation, McDonnell-Pew Program in Cognitive Neuroscience (12/90 - 12/92).

Principal Investigator. "Interactive processes in lexical retrieval." NIH: National Institute on Deafness and other Communication Disorders. R-29, Independent research and transition award. (12/93 - 12/98).

Principal Investigator. "Lexical retrieval, verbal short-term memory and learning." NIH: National Institute on Deafness and other Communication Disorders. (7/99 - 6/04).

Co-Principal Investigator (PI - Matti Laine). "Rehabilitation of anomia: Explorations of cognitive and neural mechanisms." James S. McDonnell Foundation: Program for Collaborative Pilot Projects in Cognitive Rehabilitation Research. (9/98 - 9/01)

Principal Investigator. (PI: Nadine Martin) "Rehabilitation of grapheme-phoneme correspondence and sound blending abilities in phonological dyslexia". Dean's Incentive Grant, Temple University, 2003-04

Co-Investigator (PI: Matti Laine) Grant from the Academy of Finland "Neurocognition of language learning and re-learning", other co-investigators: Riitta Salmelin (Helsinki University of Technology), Alan Baddeley (Bristol University) 2003-2005.

Principal Investigator of Subcontract to "Psycholinguistic Aspects of Aphasic Syndromes" (Principal Investigator: Myrna Schwartz, Ph.D. Moss Rehabilitation

Research Institute.) NIH: National Institute on Deafness and other Communication Disorders. R01 DC 100091 (9/2003 – 8/2006).

Principal Investigator “Bridge Grant: Lexical retrieval, verbal short-term memory and Learning. Office of the Vice President for Research and Graduate Studies, Temple University. 3/2004 – 4/2005.

Principal Investigator ”Lexical retrieval, verbal short-term memory and learning” NIH: National Institute on Deafness and other Communication Disorders R01 DC01924. (12/2005 – 11/2010).

Associate Investigator (PI: Carolyn Wilshire, Ph.D. Victoria University of Wellington, New Zealand). “Disorders of selection and control in Individuals with nonfluent Aphasia.” Marsden Fund, The Royal Society of New Zealand. (3 years). 2005-2008.

Principal Investigator. “Remediation of word processing and short-term memory deficits in aphasia” 1R21DC008782-01A 2/1/2008-1/31/09

Principal Investigator ”Lexical retrieval, verbal short-term memory and learning” NIH: National Institute on Deafness and other Communication Disorders Supplement: 3R01DC001924-14S1 (7/17/2009– 11/30/2010).

Principal Investigator. “Remediation of word processing and short-term memory deficits in aphasia” Supplement: 3R21DC008782-01S1 2/1/2008-1/31/2009 (plus 12 months no cost extension).

Dean’s Incentive Award, Interdepartmental Research Award, Promoting Functional “Communication Abilities in Aphasia with Virtual Reality Environments”, 2011

Principal Investigator. (Co-I’s Francine Kohen and Gary Milsark). NIDCD R21 “Effects of Argument Structure and Processing Load on Sentence Processing in Aphasia” 1R21DC011434-01A1 (7/1/2011 – 6/30-2013). Diversity Supplement to R21 DC01434: awarded to support Anicha Malloy for one year mentoring and research experience. “Using syntactic priming to improve sentence comprehension in aphasia” March 1, 2012 – February 28, 2013.

Principal Investigator: (Co-Is Emily Keshner and Alex Rudnicky) “Promoting Functional Communication in Aphasia with Virtual Clinicians” NIDCD 1R21DC012245-01A. 10/2012 - 9/2014.

Co-Investigator (PI Emily Keshner ) NIDCD 1R13 DC012999-01 Conference: International Conference on Virtual Reality and EM Saffran Cognitive Neuroscience Conference. August 26-29, 2013.

Co-Investigator: (PI Malcolm McNeil) VA 1I01RX001145-01A1 Aphasic comprehension: conflict resolution and short-term memory, October 2013 – September 2017.

Principal Investigator: “Theory driven treatment of language and cognitive impairment in aphasia” NIDCD R01 DC013196-0A1 March 2014 to February 2019

Principal Investigator (PI Nadine Martin ) NIDCD 1R13 DC014223-01 Eleanor M. Saffran Conference on the Cognitive Neuroscience of Language. July 2014-June 2017.

**Supervisory and consultant roles:**

R01 DC 100091, 9/06 – 8/08 NIH-NIDCD (Myrna Schwartz, PI). “Psycholinguistic Aspects of Aphasic Syndromes” (Moss Rehabilitation Research Institute.)

R01 DC008355 (PI: Julius Fridriksson) NIH-NIDCD 4/1/2007-3/31/2012

Title: “Neurological Predictors of Anomia Recovery in Aphasia” Role: Consultant (no financial support). The relationship between cortical integrity and outcome of anomia treatment in patients with aphasia.

K23 DC010197-01 (PI: Jamie Reilly) 8/1/2009-7/31/2014

Title: “Structure of Semantic Memory and its Measurement in Dementia and Aphasia” Role: Collaborator (no financial support). The major goals of this project are to investigate the structure of semantic memory using fMRI and event related potentials and (2) develop and validate a standardized measure of semantic memory.

**Submitted but not funded:**

Principal Investigator. NIDCD R01, “Language, verbal short-term memory and executive processing in aphasia” 2009.

Principle Investigator. NIDCD R21/R33. “Clinical Management of Language and Cognitive Impairments in Aphasia” 2010.

Principle Investigator (Co-Investigators, Matti Laine (Turku, Finland) and Antoni Rodriguez-Fornells (Barcelona, Spain). James McDonnell Collaborative Research Award, “Plasticity and Language Learning Capability in the Damaged Brain” 2011.

Co-Principle Investigator (with Emily Keshner) R01 NIDCD R01 Development of Virtual Clinicians to Promote Functional Communication in Aphasia. 2014 (First submission).

**VISITING SCIENTIST GRANTS**

May, 1994; June, 1996; May, 2004; September, 2008, September 2010. Turku University, Finland. Visiting Research Fellow.

February, 1995. Max Planck Institute for Psycholinguistics, The Netherlands. Visiting Research Fellow.

March-April, 2003. Simon Visiting Fellowship, University of Manchester, Department of Psychology, Manchester, England.

**TEACHING**

Courses taught from 1998 to present as adjunct and tenure track faculty:

*Temple University*

Adult Language Disorders: Foundations

Adult Language Disorders: Management.

Human Neuroscience

Independent Studies in Adult Language Disorders

Readings course: Language and other Cognitive Processes

Language and the Brain

*La Salle University*

Articulation and Phonological Development and Disorders.

***Thesis and Dissertation Advising and post doctoral mentoring***

Dissertation committee memberships.

2002-2005 Renata Konecny (Dept. of Psychology, La Salle University)

2003-05: Jamie Reilly (Department of Psychology, Temple University)

2005 Lauren L. Cloutman (Department of Psychology, Victoria University, Australia)

2004-2006 Kati Renvall (Department of Psychology, University of Turku).

2005-2006 Shane Eynon (Department of Psychology, Temple University).

2004-2006 Leah Fabiano (Department of Communication Sciences, Temple University).

2004 -- Jennifer Ayala (Dept. of Psychology (Neuropsychology) Drexel University).

2007 – Regina Jokel (Dept. of Communication Disorders, University of Toronto).

2008 - Antti Järvelin Dept. of Computer Sciences, University of Tampere, Finland.

2012—Irene Minkna, Department of Communication Sciences and Disorders, University of Washington (Primary Advisor - Diane Kendall)

2013 – Sarah Seligman, Department of Psychology, Temple University (Primary advisor – Tania Giovanetti).

Doctoral Advising

2010 --- Laura McCarthy (Dept. of Communication Sciences and Disorders – Temple University)

Master's thesis advising.

2006-7 Nicholas Gruberg (Department of Communication Sciences) Temple University

2007 Danielle Eagan (Department of Communication Sciences) Temple University.

2007 Rebecca Afman (Department of Communication Sciences) Temple University.

Post doctoral advising.

2007-8 Co-mentor with Brian Goldstein: Ferenc Bunta collaborated on research in my lab 2007-8.

2008 - Post doctoral mentor: William D. Hula, Ph.D. Veterans Affairs Rehabilitation Research and Development Career Development Award titled, “Attention and Lexical Access in Aphasia and Apraxia of Speech.”

Other Mentorship Activities.

Creative Arts, Research and Scholarship Program (CARAS) Grant: Student award sponsored by Temple's Office of the Provost. 1 – 6/2011. “Investigation of the feasibility of using human-avatar interaction to promote functional communication skills in people with aphasia” awarded to Kristie Hartz. N. Martin's role: Supervisor.

April 2012, 2013 and 2014. *Member of the Mentorship Faculty for Lessons for Success (2012-2014)*. This 4-day workshop aims to provide intensive training to a promising group of emerging scientists in the areas of (a) grant preparation and funding opportunities, (b) development and management of a successful program of research, and (c) advancement of professional competencies. Co-sponsored by ASHA, the American Speech-Language-Hearing Foundation (ASHFoundation), and the National Institute on Deafness and Other Communication Disorders (NIDCD), through a U13 grant awarded to ASHA.

**SERVICE – Department, College and University**

Member of Program Committee for the Temple University Neuroscience Program, 1999-2001.



Member of Faculty in Temple University's Neuroscience Program, 1999 -

Chair of the Search Committee for two faculty positions in Communication Sciences, Fall 2004.

Member of committee to re-organize curriculum for the course in Human Neuroscience.

Member of Graduate Council 2005-7.

Member of committee to form a graduate program in Interdisciplinary Health Care (2005-2006).

Member of Search Committee for Chair of Communication Sciences, 2005-2006.

Member of Search Committee for faculty position in Child Language 2007-8.

Member of Committee to develop Neurolinguistics track in Communication Sciences.

Member of the Internal Research Advisory Committee for research activities beginning Spring-Summer 2007.

Member of the Provost's Steering Committee for University-wide Academic and Strategic Planning. Fall 2007-Spring 2008.

Member of the Sponsored Program Advisory committee, Fall 2008 –2010.

Member of Committee to establish Temple Institute of Learning Sciences. Spring 2009 -

Member of Committee to review NSF MRI-R2 instrumentation grant program applications for Temple University. Summer, 2009.

Member of Committee to review study leaves and grants, College of Health Professions and Social Work, 2009-11.

Member of Promotion and Tenure Committee, College of Health Professions and Social Work, 2009-2013.

Member of Indirect Cost Committee, College of Health Professions and Social Work, 2010

Member of Search Committee for Chair of the Communication Sciences Department, 2011-2012.

Member of Faculty (Tenure-Track) Search Committee, Communication Sciences and Disorders Department, 2012-2013.

Member of the Merit Advisory Committee, 2012.

Member of the Search Committee for a Dean of the College of Health Professions and Social Work, 2013-2014..

Member of the Non-Tenure Track Search Committee, Communication Sciences and Disorders 2012 and 2013.

Chair of the Faculty (Tenure-Track) Search Committee, Communication Sciences and Disorders Department, 2013-2014.

Member of Faculty (Tenure-Track) Search Committee, Communication Sciences and Disorders Department, 2014-2015.

Member of Aphasia Center Development Committee, Communication Sciences and Disorders, 2014-

Member of Committee to develop newsletter for the Communication Sciences and Disorders department. August 2014---

Member of Salary Advisory Committee for the College of Public Health, December, 2014.

Reviewer for College of Health Professions seed grant program, December, 2014.

## **PUBLICATIONS**

### ***Refereed Journal Articles.***

Pate, D. S., Saffran, E. M. & Martin, N. (1987). Specifying the nature of impairment in conduction aphasia: A case study. *Language and Cognitive Processes*, 2, (1) 43-84.

Martin, N., Weisberg, R.W., and Saffran, E.M.(1989). Variables Influencing the Occurrence of Naming Errors: Implications for Models of Lexical Retrieval, *Journal of Memory and Language*, 28,462-485.

Martin, N. and Saffran, E.M. (1990). Repetition and verbal STM in transcortical sensory aphasia: A case study. *Brain and Language*, 39, 254-288.

Fink, R.B., Martin, N., Schwartz, M.F., Saffran, E.M. and Myers, J.L. (1991). Facilitation of verb retrieval skills in aphasia: A comparison of two approaches. *Clinical Aphasiology*, Vol. 21.

Martin, N. and Saffran, E.M. (1992), A computational account of deep dysphasia: Evidence from a single case study. *Brain and Language*, 43, 240-274.

Saffran, E.M., Schwartz, M.F., Fink, R. Myers, J. & Martin, N. (1993). Mapping therapy: An approach to remediating agrammatic sentence comprehension and production. *NIDCD Monograph, Vol. 2: Aphasia Treatment: Current Approaches and Research Opportunities*. pp. 77-90.

Schwartz, M.F., Saffran, E.M., Fink, R.B., Myers, J.L. and Martin, N. (1993) Mapping therapy: A treatment program for agrammatism. *Aphasiology*, 8, 19-54.

Martin, N., Dell, G.S., Saffran, E.M., & Schwartz, M.F. (1994). Origins of paraphasias in deep dysphasia: Testing the consequences of a decay impairment in an interactive spreading activation model of language. *Brain and Language*, 47, 609-660.

Martin, N. Saffran, E.M. & Dell, G.S.(1996). Recovery in deep dysphasia: Evidence for

a relation between auditory-verbal STM and lexical errors in repetition. *Brain and Language*, 52, 83-113.

- Roach, A., Schwartz, M.F., Martin, N., Grewal, R.S. & Brecher, A. (1996) The Philadelphia Naming Test: Scoring and Rationale. *Clinical Aphasiology*, 24, 121-133.
- Laine, M. & Martin, N. (1996) Lexical retrieval deficit in picture naming: Implications for word production models. *Brain and Language*, 53, 283-314.
- Martin, N. (1996) Models of deep dysphasia. *Neurocase*, 2, 73-80.
- Martin, N., Gagnon, D., Schwartz, M.F., Dell, G.S. & Saffran, E.M. (1996). Phonological facilitation of semantic errors in normal and aphasic speakers on a picture naming task. *Language and Cognitive Processes*, 11, 257-282.
- Gagnon, D.A., Schwartz, M.F., Martin, N., Dell, G.S. & Saffran, E.M. (1997). The origins of form-related paraphasias in aphasic naming. *Brain and Language*, 59, 450-472.
- Martin, N. (1997). Reply: On a unitary account for deep dysphasia. (Trojano, L & Grossi, Dr., Comment on "Models of Deep Dysphasia", Martin, N. *Neurocase*, 2, 73-80.) *Neurocase*, 3, 88-91.
- Dell, G.S., Schwartz, M.F., Martin, N., Saffran, E.M. & Gagnon, D.A. (1997). Lexical access in aphasic and non-aphasic speakers. *Psychological Review*, Vol. 104, No.4, 801-838.
- Martin, N. & Saffran, E.M. (1997). Language and auditory-verbal short-term memory impairments: Evidence for common underlying processes. *Cognitive Neuropsychology*, 14 (5), 641-682.
- Saffran, E.M. & Martin, N. (1997). Effects of structural priming on sentence production in aphasics. *Language and Cognitive Processes*, 12, (5/6), 877-882.
- Martin, N., Roach, A., Brecher, A. & Lowery, J. (1998) Mechanisms underlying perseverations in aphasia. *Aphasiology*, 12, 319-333.
- Martin, N. & Saffran, E.M. (1999). Effects of word processing and short-term memory deficits on verbal learning: Evidence from aphasia. *International Journal of Psychology*, 34 (5/6), 330-346.
- Martin, N. & Laine, M. (2000). Effects of contextual priming on word retrieval in anomia. *Aphasiology*, 14, 53-70.
- Martin, N. (2000) How are word processing and verbal STM related and why do we want to know? *Brain and Language*, 71, 149-153.
- Dell, G.S., Schwartz, M.F., Martin, N., Saffran, E.M. and Gagnon, D.A. (2000). The role of computational models in neuropsychological investigations of language: Reply to Rumel and Caramazza. *Psychological Review*, 107(5), 635-645.
- Martin, N., Saffran, E.M., Dell, G.S., Schwartz, M.F. and Gupta, P. (2000). Neuropsychological and computational evidence for a model of lexical processing, verbal short-term memory and learning. *Proceedings of the 6<sup>th</sup> International Conference*

*on Spoken Language Processing - Beijing, October, 2000, Volume II* (China Military Friendship Publisher), pp. 20-25.

- Martin, N. Saffran, E.M. & Dell, G.S. (2000) Reprint of Martin, N. Saffran, E.M. & Dell, G.S. (1996). Recovery in deep dysphasia: Evidence for a relation between auditory-verbal STM and lexical errors in repetition. *Brain and Language*, 52, 83-113. In G. Cohen, R.A. Johnston & K. Plunkett (Eds.) *Exploring Cognition: Damaged Brains and Neural Networks* (Readings in Cognitive Neuropsychology and Connectionist Modeling), London: Open University and Psychology Press.
- Martin, N & Saffran, E. M. (2002). The relationship of input and output phonology in single word processing: Evidence from aphasia. *Aphasiology*, 16, 107-150.
- Cornelissen, K., Laine, M., Tarkiainen, A., Jarvensivu, T., Martin, N., & Salmelin, R. (2003). Adult Brain Plasticity revealed by treatment of anomia: an MEG study. *Journal of Cognitive Neuroscience*, 15, 444-461.
- Renvall, K., Laine, M. Laakso, M. & Martin, N. (2003). Anomia rehabilitation with contextual priming: A case study. *Aphasiology*, 17, 305-308
- Saffran, E. M., Coslett, H. B., Martin, N. & Boronat, C. (2003). Access to knowledge from pictures but not words in a case of a patient with progressive fluent aphasia. *Language and Cognitive Processes*, 18, 725-758.
- Renvall, K., Laine, M., Hiltunen, J., Rinne, J., Kaasinen, V., Sipilä, H. Cornelissen, K., Martin, N. (2003). Naming multiple objects: Neural correlates as measured by positron emission tomography. *Applied Neuropsychology* 10, 224-233.
- Martin, N. (2003). Cognitive neuropsychological evidence for common processes underlying generation and storage of language representations. Commentary on Ruchkin, Grafman, Corcoran and Berndt, "Working memory retention systems: A state of activated long-term memory." *Brain and Behavioral Sciences*, 26 (6): 747-748.
- Cornelissen, K., Laine, M., Renvall, K., Sarinen, T., Martin, N., and Salmelin, R. (2004). Learning new names for new objects: Cortical effects as measured by magnetoencephalography. *Brain and Language*, 89, 617-622.
- Gupta, P. Lipinski, J. Lin, P.-H., Abbs, B., Aktunc, E., Martin, N. & Newman, R. (2004). Space Aliens and nonwords: Stimuli and software for investigating the learning of novel word-meaning pairs. *Behavioral Research Methods, Instruments and Computers*, 36, 699-703.
- Martin, N. & Gupta, P. (2004) Exploring the relationship between word processing and verbal STM: Evidence from associations and dissociations. *Cognitive Neuropsychology*, 21, 213-228.
- Martin, N. & Ayala, J. (2004) Measurements of auditory-verbal STM in aphasia: Effects of task, item and word processing impairment. *Brain and Language*, 89, 464-483.
- Martin, N., Fink, R., Laine, M. (2004). Treatment of word retrieval with contextual priming. *Aphasiology*, 18, 457-471.

- Martin, N., Fink, R., Laine, M. & Ayala, J. (2004). Immediate and short-term effects of contextual priming on word retrieval. *Aphasiology*, 18, 867-898.
- Martin, N. (2004). Comments on Nickels, L. and Howard, D., "Dissociating effects of number of phonemes, number of syllables and syllable complexity on word production in aphasia: it's the number of phonemes that counts." *Cognitive Neuropsychology*, 21, 528-530.
- Martin, N. & Dell, G. S. (2004). Perseverations and Anticipations in Aphasia: Primed intrusions from the past and future. *Seminars in Speech and Language Pathology*, 25, 349-362.
- \*Reilly, J., Martin, N., & Grossman, M. (2005). Verbal learning in semantic dementia: Is repetition priming a useful strategy? *Aphasiology*, 19(3/4/5), 329-339.
- \*Renvall, K., Laine, M., & Martin, N. (2005). Contextual priming in semantic anomia: A case study. *Brain and Language*, 95, 327-341.
- Martin, N., Schwartz, M.F. & Kohen, F.P., (2005). Assessment of the ability to process semantic and phonological aspects of words in aphasia: A multi-measurement approach. *Aphasiology*, 20, 2/3/4, 154-166.
- Schwartz, M.F., Dell, G.S., Martin, N., Gahl, S., Sobel, P. (2006). A case series test of the two-step interactive model of lexical access: Evidence from picture naming. *Journal of Memory and Language*, 54, 228-264.
- Martin, N., Fink, R., Renvall, K., & Laine, M. (2006). Effectiveness of contextual repetition priming treatments for anomia depends on intact access to semantics. *Journal of International Neuropsychological Society*, 12, 1-14.
- Dell, G.S., Martin, N., & Schwartz, M.F. (2007). A case-series test of the interactive two-step model of lexical access: Predicting word repetition from picture naming. *Journal of Memory and Language*, 56, 490-520.
- Renvall, K., Laine, M. & Martin, N. (2007). Treatment of anomia with contextual priming: Exploration of a modified procedure with additional semantic and phonological tasks. *Aphasiology*, 21, 499-527.
- Martin, N. & Dell, G. S. (2007). Common mechanisms underlying perseverative and non-perseverative speech errors. *Aphasiology*, 21, 1002-1017.
- \*Bowes, K. & Martin, N. (2007). Longitudinal study of reading and writing rehabilitation using a bigraph-biphone correspondence approach, *Aphasiology*, 21, 681-701.
- Raymer, A.M., Beeson, P., Holland, A., Maher, L.M., Martin, N., Murray, L., Rose, M., Thompson, C.K., Turkstra, L., Altmann, L., Boyle, M., Conway, T., Hula, W., Kearns, K., Kendall, D., Rapp, B., Simmons-Mackie, N., Gonzalez Rothi, L.J., (2008). Translational Research in Aphasia: From Neuroscience to Neurorehabilitation *Journal of Speech, Language and Hearing Research*, 51, 5259- 5275.
- Kohen, F.P., Milsark, G. & Martin, N. (2011). Effects of syntactic and semantic argument structure on sentence repetition in agrammatism: Things we can learn from

- particles and prepositions. *Aphasiology*, 25 (06-07), 736 - 747.
- Martin, N. (2011). Similarities and differences between perseverative and on-perseverative errors in aphasia: Theoretical and clinical Implications. *SIG 2 Perspectives on Neurophysiology and Neurogenic Speech and Language Disorders*, 21, 167-175.
- Tuomiranta, L., Grönholm-Nyman . P., Kohen, F. P., Pirkko Rautakoski, P., Laine, M., Martin, N. (2011). Learning and maintaining new vocabulary in persons with aphasia: Two controlled case studies. *Aphasiology*, 25(09), 1030 - 1052..
- Kalinyak-Fliszar, M., Kohen, F. P., & Martin, N. (2011). Remediation of language processing in aphasia: Improving activation and maintenance of linguistic representations in (verbal) short-term memory. *Aphasiology*, 25(10), 1095-1131.
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- Martin, N. & Kalinyak-Fliszar, M. Building a case for single case study treatment research: Comments on Howard, Best and Nickels "Optimising the design of intervention

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Peñalosa, C., Benetello, A., Tuomiranta, L. Heikius, I-M, Järvinen, S., Carmen M. C. Cardona, P., Montserrat Juncadella, M., Laine, M., Martin, N. Rodríguez-Fornells, A. (in press, 2014) Speech Segmentation in Aphasia. *Aphasiology*.

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### ***Papers in preparation.***

Benetello, A., Martin, N., Kohen, F.P., Kalinyak, M. (*under revision*). Effects of semantic and syntactic load and superficial similarity on cross-structural priming in aphasia.

Kalinyak-Fliszar, M., Kohen, F. P. & Martin, N. (*under revision*) Promoting short-term maintenance of linguistic representations in aphasia.

Kalinyak-Fliszar, M., Martin, N., Keshner, E., Rudnicky, A., Shi, J., Teodoro, G. (*under revision*). Promoting functional communication in people with aphasia with virtual clinicians.

Fink, R., Martin, N. & Laine, M. (*In preparation*,). Contextual priming treatment of word production: Analysis of short-term interference and long-term learning effects.

Martin, N., Kalinyak-Fliszar, M. & Kohen, F. P. (*in preparation*). Treatment of a language activation maintenance deficit in Wernicke’s Aphasia.

Martin, N., Gruberg, N., Bunta, F., Schmitt, K., & Kamen, R., (*In preparation*,). Verbal learning in chronic aphasia: Factors affecting receptive and expressive learning of novel words.

Martin, N., Kalinyak-Fliszar, M., & Kohen, F. P. (*In preparation*,). A new test battery for aphasia which varies short-term memory and executive processing load of language tasks.

Kamen, R., Kohen, F. P., Kalinyak-Fliszar, M. & Martin, N. (*in preparation*). Effects of Memory Load and Typicality of Semantic Category on Semantic Processing in Aphasia.

### ***Refereed abstracts.***

Breedin, S. D., Martin, N. & Saffran, E.M. (1994). Category-specific semantic impairments: An infrequent occurrence? *Brain and Language*, 47, 383-386.

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- Martin, N., Ayala, J. & Saffran, E. M. (2002). Effects of semantic and phonological impairment on serial position effects in aphasia. *Brain and Language*, 83, 92-95.
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- Martin, N. (2005). Verbal and nonverbal semantic impairment in aphasia: An activation deficit hypothesis. *Brain and Language*, 95, 251-252.
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Benetello, A., , Kohen, F. P., Kalinyak-Fliszar, M. & Martin, N. (2012). Cross-structural priming in sentences with particles and prepositions: A case study. *Procedia Social and Behavioral Sciences, 61 262-263*

Martin, N., Kate Schmitt, K., Kamen, R., Gruberg, N., Bunta, F., Kalinyak-Fliszar, M. (2012). Receptive and expressive learning of novel words (object and proper names) in aphasia. *Procedia Social and Behavioral Sciences, 61 112 – 114.*

Penaloza, C., Heikus, I., Jarvinene, S., Benetello, A., Tuomiranta, L., Martin, N., Laine, M., Rodriguez-Fornells, A. (2013). Exploring speech segmentation abilities in people with chronic

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Martin N., McCarthy L.M., Kohen F., Kalinyak-Fliszar M. and Berkowitz R. (2014). Cross-modal priming facilitates production of low imageability word strings in a case of deep-phonological dysphasia. *Front. Psychol. Conference Abstract: Academy of Aphasia – 52nd Annual Meeting*

### **Editorial Introductions.**

Martin, N. (1996). Cognitive approaches to recovery and rehabilitation in aphasia. (Editorial Introduction). *Brain and Language*, 52, 3-6.

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Stark, J., Martin, N. & Fink, R. (2005). Current approaches to aphasia therapy: Principles and applications. (Editorial introduction to Special Issue with papers from the Aphasia Therapy Workshop, Vienna, Austria, October 2003), *Aphasiology, Volumes 10-11*, 903-905.

Martin, N. (2008). Dynamic interactions of language with other cognitive processes. *Seminars in Speech and Language*, 29 (3), 167-168.

Martin, N. & Reilly, J. J. (2012) Introduction to special issue. Short-term memory/working memory impairments in aphasia: Data, models and their application to aphasia rehabilitation, *Aphasiology*, 26 (3/4) 253-257.

### **Book chapters.**

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Martin, N. (1995). Model-based approaches to treatment of naming disorders. In *Proceedings NVLF Jaarcongres*, (The Netherlands, November, 1995), Nederlandse Vereniging voor Logopedie en Foniatrie.

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MIT Press. Chapter 9, pp. 225-238.

Martin, N. Repetition in aphasia. Theoretical and clinical implications. (2001). In R. Berndt (Ed. Volume 3). *Handbook of Neuropsychology*, 2nd edition, (F. Boller & J. Grafman Editors of series). Amsterdam: Elsevier. Chapter 8, pp. 136-156.

Gagnon, D.A. & Martin, N. (2002). Diagnosis, prognosis, and remediation of acquired naming disorders from a connectionist perspective. In R. Daniloff (Ed.), *Connectionist approaches to clinical problems in speech and language: Therapeutic and scientific applications*. Hillsdale, NJ: Erlbaum. Chapter 3, pp. 109-129.

Martin, N., Laine, M. & Harley, T.A. (2002) How can connectionist cognitive models of language inform models of language rehabilitation? in A.E. Hillis (Ed.) *Handbook of Adult Language Disorders*. Hove: Psychology Press.

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Martin, N. (2005). An interactive activation account of aphasic speech errors: Converging influences of the functional locus of impairment, integrity of processing mechanisms and severity of impairment. In R. Hartsuiker, R. Bastiaanse, A. Postma, & F. Wijnen (Eds). *Phonological encoding and monitoring in normal and pathological speech* Psychology Press, Hove UK, pp. 67-85.

Martin, N. & Hinckley, J. (2008). A case of anomic aphasia. In N. Martin, C.K. Thompson, L. Worrall (Eds.) *Aphasia Rehabilitation: The Impairment and its Consequences*. Plural Publishers. Chapter 14, pp. 177-180.

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Hinckley, J. & Martin, N. (2008). Cognitive and functional interventions for anomic aphasia: Convergences and divergences. In N. Martin, C.K. Thompson, L. Worrall (Eds.) *Aphasia Rehabilitation: The Impairment and its Consequences*. Plural Publishers. Chapter 17, pp. 219-221.

Martin, N. (2009). The role of semantic processing in short-term memory and learning: Evidence from Aphasia. In *Interactions between short-term and long-term memory in the verbal domain*. A. Thorn & M. Page (Eds.). Psychology Press. Chapter 11, pp. 220-243.

Martin, N. (2012). Managing communication deficits associated with memory disorders. In R. Peach and L. Shapiro (Eds.) *Cognition and Acquired Language Disorders: A Process-Oriented Approach*. Mosby

Martin, N. (2013). Disorders of word production. In I. Papathanasiou, P. Coppens, C. Potagas (Eds) *Aphasia and Related Neurogenic Communication Disorders*. Jones and Bartlett

Publishers: Sudbury, Mass.

Reilly, J. J. & Martin, N. (in press). Transcortical sensory aphasia and semantic memory. In S. Raymer & L. Gonzalez Rothi (Eds.). *Oxford Handbook of Aphasia*.

Martin, N., Laine, M. & Harley, T.A. (2014) How can connectionist cognitive models of language inform models of language rehabilitation? in A.E. Hillis (Ed.) *Handbook of Adult Language Disorders, 2<sup>nd</sup> Edition*. Hove: Psychology Press.

### **Books.**

Laine, M. & Martin, N. (2006). *Anomia: Clinical and Theoretical aspects*. New York: Psychology Press.

Stark, J., Martin, N. & Fink, R., Editors (2005). *Aphasia Therapy Workshop. Current approaches to aphasia therapy: Principles and applications*. Special issue of *Aphasiology*. New York: Taylor and Francis and Psychology Press.

Martin, N., Thompson, C.K., Worrall, L., Editors. (2007). *Aphasia Rehabilitation: The Impairment and its Consequences*. San Diego: Plural Publishers.

Martin, N. & Reilly, J. R., Editors (2013). *Short-term and Working Memory Impairments in Aphasia: Data, models and their application to rehabilitation*. Oxen, UK: Psychology Press, LTD.

### **Papers in preparation.**

Benetello, A., Martin, N., Kohen, F.P., Kalinyak, M. (*under revision*). Effects of semantic and syntactic load and superficial similarity on cross-structural priming in aphasia.

Kalinyak-Fliszar, M., Kohen, F. P. & Martin, N. (*under revision*) Promoting short-term maintenance of linguistic representations in aphasia.

Fink, R., Martin, N. & Laine, M. (*In preparation*). Contextual priming treatment of word production: Analysis of short-term interference and long-term learning effects.

Martin, N., Kalinyak-Fliszar, M. & Kohen, F. P. (*in preparation*). Treatment of a language activation maintenance deficit in Wernicke's Aphasia.

Martin, N., Gruberg, N., Bunta, F., Schmitt, K., & Kamen, R., (*In preparation*). Verbal learning in chronic aphasia: Factors affecting receptive and expressive learning of novel words.

Martin, N., Kalinyak-Fliszar, M., & Kohen, F. P. (*In preparation*). A new test battery for aphasia which varies short-term memory and executive processing load of language tasks.

Kamen, R., Kohen, F. P., Kalinyak-Fliszar, M. & Martin, N. (*in preparation*). Effects of Memory Load and Typicality of Semantic Category on Semantic Processing in Aphasia.

### **INVITED TALKS, CONFERENCE TALKS, POSTERS AND PRESENTATIONS**

***Invited talks.***

- Martin, N. Interaction of semantic and phonological processes in word retrieval. Evidence from normal and aphasic speech error patterns. University of Warwick. Department of Psychology, March, 1993.
- Martin, N. An interactive model's account of deep dysphasia. Johns Hopkins Cognitive Neurology, June, 1993.
- Martin, N. Mixed error effects as evidence for an interactive activation model of word production. Department of Psychology, University of Arizona. December, 1994.
- Martin, N. Interactive processes in word retrieval: Evidence from Aphasia. Max Planck Institute of Psycholinguistics. February, 1995
- Martin, N. Model-based approaches to treatment of naming disorders. *Congress of Dutch Association of Logopedics and Phoniatrics*, Ede, The Netherlands, November, 1995.
- Martin, N. Common processes mediating verbal short-term memory and word retrieval. Colloquium, Department of Psychology, Arizona State University Colloquium, April, 2000.
- Martin, N. Word processing, verbal short-term memory and learning. Cognitive Brain Institute, University of Pennsylvania. February, 2004
- Martin, N. Relations between lexical access, short-term memory and learning in aphasia: Implications for treatment of word retrieval and STM deficits. Research in Progress series speaker. January, 2005.
- Martin, N. Treatment approaches for word-finding deficits in aphasia. Invited talk for workshop on aphasia treatment. Neurological Clinic, University of Aachen, Aachen, Germany. October, 2005.
- Martin, N. Treatment of common processes underlying word retrieval and verbal short-term memory deficits. Centre de recherche, Institut universitaire de gériatrie de Montréal, February, 2006.
- Martin, N. Common Processes Linking the Verbal and Short-term Memory Components of Verbal Short-term Memory: Evidence from Aphasia. *Temple Neuroscience Seminar Series* and Journal Club (April, 2008)
- Martin, N., Kalinyak-Fliszar, M., Kohen, F.P. Diagnosis and Treatment of Language and Short-term Memory Deficits in Aphasia, Annual *Communiversity* Meeting, Temple University, July 2008.
- Martin, N. Temporal components of language processing: Implications for models of verbal STM, aphasia and treatment of language disorders. Université of Liège, Department of Psychology, March 10, 2009.
- Martin, N. Temporal components of language processing: Implications for models of verbal STM,

aphasia and treatment of language disorders. Department of Psychology, Center for Language Science Colloquium, Penn State University, April 24, 2009.

Martin, N. Diagnosis and treatment of short-term memory and executive components of language processing impairments in aphasia. Moss Rehabilitation Research Institute, Elkins Park, PA, December 16, 2009.

Martin, N., Kalinyak-Fliszar, M. & Kohen, F.P. (2010) Clinical management of language and short-term memory impairment in aphasia. Seminar for ASHA Special Interest Division 2 (Neurogenics) Seminar, American Speech, Language and Hearing Convention, November 18, 2010, Philadelphia, PA.

Martin, N., Kohen, F.P. & Kalinyak-Fliszar, M. (2011) Clinical management of language and short-term memory impairment in aphasia. Full day conference/workshop for the *Delaware Speech, Language and Hearing Association*, October, 28, 2011 Dover, Delaware.

Martin, N. Temporal aspects of language processing: Implications for theories, diagnosis and treatment of aphasia. *Institute d'Investigacio Biomedica deBellvitge*, Barcelona, Spain, March 9, 2012.

Martin, N. Translational research in aphasia: From neuroscience to neurorehabilitation. *Rumi Student Association*, Temple University, March 29, 2012.

Martin, N. Clinical management of language and short-term memory impairment in aphasia. Department of Neurology, Cooper University Hospital, Grand Rounds, Camden, NJ. June 1, 2012.

Martin, N. Virtual reality and rehabilitation of communication abilities in children and adults. *Communiversy Conference*, Temple University, June 22, 2012.

Martin, N., Kalinyak-Fliszar, M. & Kohen, F.P. Theory driven treatment of language and verbal STM impairment in aphasia: Using treatment outcomes as a test of the theory. *Brain and Cognitive Sciences Group*, Dept. of Psychology, Temple University, November, 19, 2012.

Martin, N. Contending with a restricted verbal short-term memory (STM) capacity in aphasia rehabilitation: Should we aim to increase capacity or reduce the verbal STM load? University of Washington, Seattle, WA, March 1, 2013.

Martin, N. Cognitive and neural investigations of new word learning ability in aphasia. *Neuroscience Seminar Series*, Temple University, October 23, 2013.

Martin, N. and McCarthy, L. M. Two treatment approaches for improving short-term activation of phonological and semantic representations of abstract words in phonological-deep dysphasia. *Topics in Rehabilitation Sciences*, Moss Rehabilitation Research Institute, November 20, 2013.

#### ***Presentations at Scientific Meetings.***

Martin, N., Considerations in the evaluation and treatment of cleft palate speech disorders. Paper presented at the *Cleft Palate Symposium (organizer)*, Betty Bacharach Rehabilitation Hospital,

- Pomona N.J., May, 1980.
- Pate, D.S., Martin, N., and Saffran, E.M., Specifying the locus of the production impairment in a conduction aphasic. *Academy of Aphasia*, Minneapolis, MN. October, 1983.
- Martin, N., Saffran, E.M., and Pate, D.S., Linguistic processes involved in repetition: A case study of a patient with transcortical sensory aphasia. *Academy of Aphasia*, Los Angeles, October, 1984.
- Saffran, E.M. and Martin, N., Neuropsychological Evidence for lexical involvement in STM. *Conference on Short-term Memory*, Como, September, 1987.
- Martin, N., Saffran, E.M. and Franklin, S. Formal paraphasias: Significance for models of language production. *Academy of Aphasia*, Baltimore, October, 1990.
- Saffran, E.M. and Martin, N. Effects of syntactic priming on sentence production in an agrammatic aphasic. *Academy of Aphasia*, Baltimore, October, 1990.
- Martin, N. and Saffran, E.M., A connectionist account of deep dysphasia, *Academy of Aphasia*, Rome, October, 1991.
- Martin, N., Saffran, E.M., Dell, G.S., & Schwartz, M.F., Origins of paraphasias in deep dysphasia: Testing the consequences of a decay impairment in an interactive spreading activation model of language. *Deep Dyslexia II* meeting, London, October, 1991.
- Martin, N., Saffran, E.M., Dell, G.S. & Schwartz, M. F., Modelling patterns of error in recovery of naming disorders: Implications for theories of language and aphasia. *Tenth European Workshop on Cognitive Neuropsychology: An interdisciplinary approach*. Bressanone, Italy, January, 1992.
- Martin, N. Saffran, E.M., Schwartz, M.F. & Dell, G.S., Simulating aphasic error patterns within an interactive spreading activation model of language. Symposium on Morphological and/or Phonological Disturbances in Aphasia at the 7th International Phonology Meeting and the 5th International Morphology Meeting, Krems, Austria, July, 1992.
- Martin, N. & Saffran, E.M. Temporal effects on Repetition: Evidence for common processes mediating lexical retrieval and verbal short-term memory. *Academy of Aphasia*, Toronto, October, 1992.
- Martin, N. & Dell, G.S. Recovery in deep dysphasia: Evidence for a relation between auditory STM and lexical errors in repetition. *Academy of Aphasia*, Tucson, AZ, October, 1993.
- Laine, M. & Martin, N. Effects of lexical context on naming in an anomie aphasic. Paper presented as part of a Symposium (Organizer) on model-based approaches to treatment. Cognitive approaches to recovery and rehabilitation. *TENNET V*, Montreal, Canada, May, 1994.
- Martin, N. The relationship between STM and language processing. *Fifth Finnish Conference of Neurolinguistics*. Helsinki, Finland August, 1994.
- Breedin, S., Martin, N. & Saffran, E.M. Category-specific semantic impairments: An infrequent occurrence? *Academy of Aphasia*, Cambridge, MA, October, 1994.

- Schwartz, M.F., Dell, G.S., Martin, N. & Saffran, E.M. Normal and aphasic naming in an interactive spreading activation model. *Academy of Aphasia*, Cambridge, MA, October, 1994.
- Martin, N., Gagnon, D., Schwartz, M.F., Dell, G.S. & Saffran, E.M. Phonological facilitation of semantic errors in normal and aphasic speakers: Evidence for interaction of semantic and phonological representations from a picture naming task. *Academy of Aphasia*, Cambridge, MA, October, 1994.
- Roach, A., Martin, N., Brecher, A. & Lowery, J. Factors influencing the occurrence of perseverations in picture naming. *Academy of Aphasia*, San Diego CA, November, 1995.
- Martin, N. & Saffran, E.M. The relation of language and short-term memory impairments: Evidence for common underlying processes. *Academy of Aphasia*, London, November, 1996.
- Breedin, S. D., Martin, N. & Saffran, E.M. Category-specific semantic deficits and the role of stimulus type. *Psychonomics Society Meeting*, November, 1996.
- Martin, N. The relationship between language and short term memory: Evidence from aphasia. *World Conference on Brain Research*, Breckinridge, Colorado, January, 1997.
- Martin, N. & Saffran, E.M. Common processes linking word retrieval and verbal short-term memory systems: Evidence from aphasia. *Quebec 98 Conference on Short-term Memory*. Quebec, Canada, June 1998.
- Martin, N. & Saffran, E.M. Effects of word processing and short-term memory deficits on verbal learning: Evidence from aphasia. *Quebec 98 Conference on Short-term Memory*. Quebec, Canada, June 1998.
- Martin, N. & Saffran, E. M. The relationship of input and output phonology. Evidence from aphasia. *Academy of Aphasia*, Santa Fe NM, October, 1998.
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