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Vita

Name Randi C. Martin

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Personal Citizenship - U.S.A.

Education

B.A. University of Oregon (general social science, mathematics)	1971
M. A. Portland State University (psychology)	1975
M.S. Johns Hopkins University (psychology)	1977
Ph.D. Johns Hopkins University (psychology)	1979

Other training: Functional Magnetic Resonance Imaging (fMRI): An Introductory Course, Medical College of Wisconsin, Oct. 2000.

Professional Societies

Member: Academy of Aphasia, American Psychological Association, American Psychological Society, Psychonomic Society, Sigma Xi, American Association for the Advancement of Science, Society for Cognitive Neuroscience, Society of Experimental Psychologists, Women in Cognitive Science

Offices:

Elected Member-at-large of the Executive Committee of Division 3 (Experimental Psychology) of APA.

APA/BSA liaison to the AAAS Psychology Section Steering Committee, American Association for the Advancement of Science, 2018-2020.

Member-at-large, Psychology Section Steering Committee, American Association for the Advancement of Science, 2015-2018.

Immediate Past Chair of the Governing Board, Academy of Aphasia, 2015-2017.

Chair of the Governing Board, Academy of Aphasia, 2012-2014.

Governing Board, Academy of Aphasia, 2009-2011.

Executive Committee, Council of Graduate Departments of Psychology (COGDOP), 2002-2005.

American Psychological Association: Member, Publications and Communications Board (2000-2005). Chair: 2002.

Women in Cognitive Science – co-organizer of meetings in association with the Psychonomic Society, 2002-2006. Member of Advisory Panel, 2006-present.

Psychonomic Society - Secretary/Treasurer (1993-1995), Governing Board (1997-2002), Chair of Membership Committee (1999)

Federation of Behavioral, Psychological and Cognitive Sciences - Secretary/Treasurer (1997-1999)

Honors

Invited address, Annual Meeting of the Association for Psychological Science, May 2018.

Elected member-at-large, Psychology Section Steering Committee, American Association for the Advancement of Science, 2015-2018.

Member of External Advisory Panel, Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands, 2013 – 2019.

Invited Lecture, Nijmegen Lectures, Max Planck Institute for Psycholinguistics, Jan. 2013

Invited keynote address (Broadbent Lecture) at the European Society of Cognitive Psychology, Sept 2011.

Visiting Scholar, Max Planck Institute for Psycholinguistics, July 2011.

Elected to Society of Experimental Psychologists, 2006.

Fellow of American Psychological Association, Div. 6, (Behavioral Neuroscience and Comparative Psychology), 2005.

Fellow of the American Psychological Society, 2003.

Elected to Executive Committee, Council of Graduate Departments of Psychology, 2002-2005.

Fellow of the American Association for the Advancement of Science, 2001.

Elected to Publications and Communication Board, American Psychological Association (2000-2005).

Elected to Governing Board of the Psychonomic Society (1997-2002)

Fellow of American Psychological Association, Div. 1 (General Psychology), 1997

Fellow of American Psychological Association, Div. 3 (Experimental Psychology), 1996

Member of Texas Higher Education Coordinating Board, Advisory Committee on Research Programs, 1996-1999.

Claude Pepper Award from NIH-NIDCD which provided 7 years of funding for research, 1995-2002

Elma Schneider Professor of Psychology, 1995-present

Regular member of Sensory Disorders and Language study section, NIH, 1994 - 1997

NIMH traineeship in mathematical psychology, 1975-1977

Pi Mu Epsilon member (mathematics honorary)

Professional Experience

Director, T. L. L. Temple Foundation Neuroplasticity Research Laboratory 2014 - present

Chair, Psychology Department, Rice University 2002-2006

Elma Schneider Professor, Psychology Dept., Rice U., Houston, Tx. 1995-present

Professor, Psychology Dept., Rice U., Houston, Tx. 1993-1995

Adjunct Professor, Dept. of Otorhinolaryngology
and Communicative Science, Baylor College of Medicine,
Houston, Tx. 1982-Present

Director, Cognitive Sciences Program, Rice U., Houston, Tx. 1993-1996, 1998-2002

Associate Professor, Psychology Dept., Rice U., Houston, Tx. 1987-1993

Assistant Professor, Psychology Dept., Rice U., Houston, Tx. 1982-1987

Associate Research Scientist, Psychology Dept., Johns
Hopkins University, Baltimore, Md. 1980-1982

Visiting Lecturer, Psychology Board of Studies, University
of California, Santa Cruz, Ca. 1979-1980

Journal Editorships

Senior Editor, *Cognition*, January 2018 – .

Editor-in-Chief, *Journal of Experimental Psychology: Learning, Memory, and Cognition*. January 2006 – June 2012

Editorial Board (Action Editor), *Memory*, 2002.

Guest Editor, Special issue of the *Journal of Memory and Language*, Disorders of Language and Memory, August 2000.

Associate Editor, *Cognitive Neuropsychology*, 1998 - 2006.

Associate Editor, *Psychonomic Bulletin and Review*, 1995 -1997.

Editorial Boards

Frontiers in Psychology, 2015-

J. of Experimental Psychology: Learning, Memory, & Cognition, 2012-
Cognitive Neuropsychology, 2010 –
Psychological Bulletin, 2002 -2003.
Journal of Memory and Language, 1997 -2003.
Journal of Neurolinguistics, 1993 - 2004.
Journal of Experimental Psychology: General, 1996-2000.
Cognitive Neuropsychology, 1993- 1997.
Psychonomic Bulletin and Review, 1994.

Grant Support (Current)

Principal Investigator:

1. T. L. L. Temple Foundation. “Neuroplasticity Research Laboratory.” \$1,500,000 for construction of laboratory, purchase of equipment, direction of personnel. January 2013 – December 2017.

Co-principal investigator or co-investigator

1. NIH:NIDCD, Co-investigator: “Language and Neural Recovery from Stroke: Role of Selection and Working Memory,” PI: Tatiana Schnur, July 2016-June 2021, \$2,986,240. Rice subcontract: \$651,862.
2. The Institute for Research and Rehabilitation, Houston, TX, Co-PI: “Recovery from Inhibition Deficits Enhanced by Transcranial Direct Current Stimulation (tDCS): Implications for Language Processing.” PI: Simon Fischer-Baum, Oct. 2015 – Oct. 2017, \$60,000.

Grant support (prior funding)

Principal investigator

1. NIH: R01GM088530 “Gatekeepers and Gender Schemas.”, Multiple PI, Overall Program Director: Virginia Valian, Hunter College, September 2009 – August 2014. \$613,512 for Rice subcontract.
2. Social Sciences Research Institute, Rice University, “Recovery from inhibition deficits enhanced by transcranial magnetic stimulation (tDCS): Implications for language recovery.” January 2014 - December 2014. \$29,907.
3. Social Sciences Research Institute, Rice University, D75804, ““Combined functional neuroimaging and transcranial magnetic stimulation studies of verbal short-term memory,” January 2011 – December 2011. \$29, 613.
4. National Institutes of Health, F32 DC008723, “The role of short-term memory in sentence production” (post-doctoral support for L. Robert Slevc), June 2007 – June 2010, \$141,318.
5. National Institutes of Health, R01DC00218, "Short-term memory and syntactic deficits in aphasia,"
 April 1984 - March 1987, \$113,961 (originally funded as NS 19652)
 April 1987 - March 1990, \$274,224 (funded as DC00218 for 1989-1990).
 April 1990 - March 1995, \$487,205
 April 1995 - March 2002, \$1,011,948 (Claude Pepper Award)
 April 2002 – August 2009, \$1,173,170
6. National Institutes of Health, R21DC05496, “Neuroimaging of language production using overt speech in fMRI,” April 2002 – March 2006, \$132,340

Co-Principal Investigator and Co-Investigator

1. Co-investigator: “The role of executive control in bilingual language acquisition,” *Language Learning* journal, PI: Loan Vuong, Chinese U. of Hong Kong, June 2015- July 2016, \$10,000.
2. Co-investigator: “Language and neuroanatomical change during recovery from stroke” Moody Foundation, PI: Tatiana Schnur, Jan 2014 – Dec 2015. \$142,071.

3. Co-PI: "Lateralization of Language and Memory by Brain Imaging in Children with Temporal Lobe Epilepsy," Moody Foundation, Jan. 2011 – Dec. 2012. \$254,000 (total). Rice subcontract: \$43,000.
4. Co-PI: "Language and neuroanatomical change during recovery from acute stroke". Rice University Faculty Initiatives. PI: Tatiana Schnur, June 2008-June 2012. \$60,630.
5. Co-PI: "Advance Leadership Program: Women in Cognitive Science," NSF -, co-PIs: Judith Kroll & Suparna Rajaram, August 2003-August 2008, \$300,000.
6. Co-investigator: "Construction of a multimedia database for teaching Neuroscience," NSF, PI: David Lane. Jan. 2000 – June 2001. \$74,931.
7. NIH Biomedical Research Support Grant, March 1988, "Recovering from garden paths: a study using gaze duration." \$15,000.

Teaching experience

Undergraduate courses: Cognitive neuroscience, psychology of language, introduction to cognitive psychology, perception, introductory statistics, learning and memory, human experimental psychology, cognitive science senior seminar, neuropsychology of language and memory

Graduate courses: Cognitive neuroscience, cognitive psychology, psycholinguistics, analysis of variance, measurement, multiple regression, multivariate statistics, working memory

University service

Neuroscience Steering Committee (2015-2016)
 BRC Steering Committee (2014-2015)
 Graduate Council (2013 – 2015)
 Social Sciences Advisory Board (2012-2013).
 Faculty Senate Advisory Panel on Salaries (2011-2013)
 University Committee on Research (2010-2011)
 ADVANCE Committee on Climate and Retention (2010-2011)
 Advisory Panel, Rice University, NSF ADVANCE Institutional Transformation Award (2005 – 2009).
 Advisory Panel for the Study on the Status of Women Faculty (2002-2004)
 Neuroscience Program Planning Group (1997 -2010)
 Research Council (1998-2002)
 Organizer of Ad Hoc Study Group on the Status of Women Faculty at Rice (2001-2002).
 Provost Search Committee (1999-2000)
 Director, Cognitive Sciences Program (1998-2002)
 University Council, Promotion & Tenure Committee (1996 - 1997)
 Social Science Dean's Search Committee (1995-1996)
 Institutional Review Board (1995, 1997-1998)
 Director, Cognitive Sciences Program (1993-1996)
 Self-Study Committee on Research and Scholarship (1993-1994)
 Graduate Council (Fall 1990, 1991-1993)
 Committee on Sexual Harassment (1991-1992)
 Faculty associate of Baker College (Rice U. residential college) (1985-1990)
 Chair of Salary Equity Committee (1989-1990)
 Baker College Social Science Advisor (1988-1990)
 Rice University Press Review Board (1988-1989, 1990-1991)
 Chair of Salary Task Force for Rice University Commission on Women (1987-88)

Departmental service

Head of Cognitive and Affective Neuroscience RIG (2016-)
 I/O Faculty Search Committee (2016-2017)
 Chair, Health Psychology Search Committee (2015-2016)
 Member, Graduate Committee (2015-)

Member, Research Enhancement Committee (2016-)
 Head of Cognitive Neuroscience RIG (2006-2016)
 Chair of Maurin Fund Committee (1997 – 2000, 2006-present)
 Committee member, Neuroimaging Search Committee (2012)
 Chair, Memory Search Committee (2011-2012)
 Member, Committee to establish joint program in neuroscience with UT (2009 – 2012)
 Faculty Steering Committee (2009 – 2012)
 Chair, Senior I/O Search Committee, 2004.
 Head of Cognitive Group (1999 -2002)
 Chair of Graduate Recruiting Committee (2000- 2001)
 Cognitive Search Committee (1997, 1998, 1999)
 Chair of Subject Pool Committee (1996 - 1997)
 Departmental Planning Committee (1996)
 Undergraduate Advisor, Cognitive Sciences Program (1988-1990, 1992-1993)
 Director of Graduate Studies for Psychology (1991-1993)

Other professional service

1. Editor search committee, *J. of Experimental Psychology: Learning, Memory, & Cognition*, American Psychological Association, 2016-2017.
2. Member of bi-annual external review committee (Fachbeirat) for the Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands, December 2016.
3. External psychology department university reviewer, University at Albany, State University of New York, April 2016
4. Ad hoc reviewer, NIH:CSR, Fellowship Review Committee, November 2015, February 2016, March 2017, October 2017.
5. Ad hoc reviewer, NIH:DCD, Fellowship Review Committee, October 2015.
6. Reviewer, Loan Repayment Program, NIH, 2010, 2013
7. Ad hoc reviewer, Special Emphasis Panel (Program Project review), NIH, October 2011 & October 2012.
8. Reviewer for Centers of Excellence, Excellence Initiative, Deutsche Forschungsgemeinschaft (DFG), German Research Foundation, Berlin, Germany, December 2010.
9. Ad hoc reviewer, Special Emphasis Panel (Program Project Review), NIH, June 2001.
10. Ad hoc reviewer, Program Project Grants, NIH Deafness and Communication Disorders Institute, Oct. 1998.
11. Special reviewer, Sensory Disorders and Language Study Section, NIH Deafness and Communication Disorders Institute, 1992.
12. Member of site visit team, NIH Neurological Disorders Institute: Massachusetts General Hospital and Harvard University Cognitive Neuropsychology Lab, 1992
13. Member of special study section, Sensory Disorders and Language, NIH Deafness and Communication Disorders Institute, 1991
14. Member of site visit team, NIH Deafness and Communication Disorders Institute: Boston VA Aphasia Research Center, 1990
15. Reviewer for special study section for Academic Research Enhancement Award, National Institutes of Health, 1985-1986.
16. Ad hoc reviewer for *Aphasiology*, *Brain and Cognition*, *Brain and Language*, *Cerebral Cortex*, *Cognition*, *Cognitive Psychology*, *Cortex*, *J. of Cognitive Neuroscience*, *Neuropsychologia*, *Neuropsychological Rehabilitation*, *Memory and Cognition*, *Perception and Psychophysics*, *Journal of Experimental Psychology: Human Perception and Performance*, *Proceedings of the National Academy of Sciences*, *Psychological Review*, *PLOS-1*, *Nature Communications*.
17. External reviewer for promotion cases: 17 cases since 2009 – 2016.

Community Service

Invited talk, “Neuroplasticity of Language and Memory,” Friends of Fondren Library Speaker Series, Nov. 2015.

Science Café, “Neuroplasticity of Language and Memory” October 2015, public lecture at Black Labrador Pub, Houston

Advisory Panel, Houston Aphasia Recovery Center (HARC), 2009 – present. Board member: April 2019 – present

Research interests

My major research interests are in the cognitive neuroscience of language and working memory. One continuing interest has been in the question of whether there are separable short-term storage systems for maintaining different kinds of verbal and nonverbal information. Within the language domain, this research has focused on distinguishing phonological and semantic short-term memory systems and their role in language production and comprehension. A related topic is the role of executive processes in language, focusing on inhibitory and task shifting abilities. These topics have been investigated through: 1) standard behavioral studies of young and old neurally intact individuals, 2) studies of brain damaged patients with language or working memory deficits, 3) functional MRI studies of healthy and brain damaged patients, and 4) transcranial-magnetic (TMS) studies involving the transient disruption of processing in healthy individuals.

In the neuroimaging studies, we have been using cutting-edge multivariate techniques (MVPA and RSA), which analyze the pattern of activation across small subregions of the brain to determine those regions involved in maintaining different types of information. We are also using voxel-based lesion symptom (VLSM) mapping to address a similar issue by relating the brain regions damaged for patients with different types of working memory deficits.

Two recent projects have gone in new directions. One project involves analyzing the degree of modularity of overall brain organizations across individuals and relating that to task performance. Our findings suggest that a highly modular system is for better performing simple tasks whereas a less modular, and more interactive system, is better for performing complex tasks. We are currently applying this approach to study individual differences in sentence comprehension. A second project, which has major NIH funding, examines the recovery of language, working memory, and executive processes from the acute stage of stroke to one-year post stroke, relating behavioral performance at different timepoints to damage to cortical regions and fiber tracts connecting those regions.

Dissertations supervised:

Jensen, C. R. (1987). Phonological, graphemic, and semantic interference in immediate visual word recognition. Rice University.

Feher, E. P. (1987). An examination of short-term memory deficits in non-fluent aphasia. University of Houston.

Jonsdottir, M. K. (1990). Semantic deficits in aphasia: Superordinate and basic level knowledge. University of Houston.

Breedin, S. D. (1991). Verb argument structure and its disruption in aphasia. Rice University.

Shelton, J. R. (1993). Semantic priming of lexical and conceptual representations: Manipulating depth of processing of the prime. Rice University.

Bartha, M. (1997). One lump or two? Orthographic representations in reading and spelling. Rice University.

Damian, M. (1998). Semantic and phonological factors in speech production: Evidence from picture-word interference experiments. Rice University. Winner of Rice University Gardner Award for the best dissertation in the Humanities and Social Sciences, 1998.

Hanten, G. (1999). Contributions of phonological and semantic short-term memory to sentence comprehension in normal and head-injured children.

Freedman, M. (2001). Effects of short-term memory deficits on speech planning and production.

Wu, D. (2002). Separate short-term memory buffers for input and output phonology.

Hamilton, C. (2005). Semantic short-term memory and resolution of interference: Patient, ERP and fMRI data.

Beigler, K. (2006). Competition and inhibition in lexical retrieval: Are common mechanisms used in language and memory tasks?

Crowther, J. (2008). Mechanisms of lexical access and planning in speech production.

- Vuong, L. (2010). Executive control and garden path recovery. Winner of Rice University Gardner Award for the best dissertation in the Social Sciences 2010.
- Allen, C. (2012). Inhibitory control mechanisms and their role in task switching: A multi-methodological approach. Winner of Rice University Gardner Award for the best dissertation in the Social Sciences 2013.
- Glaser, Y. (2012). The Mechanisms of proactive interference and their relationship with working memory.
- Tan, Y. (2015). The role of working memory in interference resolution during Chinese sentence comprehension: Evidence from event-related potentials (ERPs). Winner of Lodieska Stockbridge Vaughn Fellowship, Rice University.
- Dial, Heather (2016). Sublexical, lexical and phonological short-term memory processes: Evaluating models of speech perception and short-term memory.
- Yan, Hao (2017). Sentence processing in aphasic speakers with short-term memory deficits: Interactions between structural and lexical processing

Master's theses supervised:

- Jensen, C. R. (1985). Phonemic priming in the lexical decision task: Evidence for graphemic dependence. Rice University.
- Breedin, S. D. (1988). A comparison of speech and nonspeech discrimination: Implications for theories of speech perception. Rice University.
- Yaffee, L. S. (1990). Aphasic patients' comprehension and production: A comparison of function words and content words. Rice University.
- Shelton, J. R. (1990). Can semantic knowledge organization be revealed through automatic semantic priming? Rice University.
- Bartha, M. (1992). Semantic vs. associative interference effects in scanning of short-term memory. Rice University.
- Sherhoff, E. (1994). Investigation of the semantic component of short-term memory in sentence comprehension. Rice University.
- Damian, M. (1996). Effects of association and semantic relatedness under super- and subliminal conditions in the lexical decision task.
- Hanten, G. (1997). A developmental phonological short-term memory deficit: A case study.
- Freedman, M. (1998). Short-term memory deficits and long-term learning: Beyond phonology.
- Katz, M. (1998). The contributions of semantic and phonological representations in verbal recall: A study using sentence repetition.
- He, T. (2001). The role of phonological short-term retention in new vocabulary acquisition.
- Park, N. (2002). Semantic and phonological representations in immediate sentence repetition.
- Biegler, K. (2004). An investigation of semantic and associative relatedness and semantic short-term memory in speech production.
- Cheng, Y. (2004). Selection versus association strength and the role of the left inferior prefrontal cortex in the retrieval of semantic and phonological information.
- Hamilton, A. C. (2004). Proactive interference in semantic and phonological short-term memory deficits.
- Crowther, J. (2006). Inhibition vs. over-activation in word selection: Evidence from aphasia.
- Hong, A. (2007). Semantic priming effects in a patient with semantic STM deficits.
- Vuong, L. (2009). The role of inhibitory control in garden path recovery.
- Allen, C. (2010). Task switching and short-term retention: The role of memory load in task switching performance. Winner of Laughery Award for best master's thesis in the psychology department, 2010.

Tan, Yingying (2011). Semantic and syntactic interference in sentence comprehension and their relationship to working memory capacity. Winner of Laughery Award for best master's thesis in the psychology department, 2012.

Hassan, Azli. (2012). Testing the semantic control hypothesis for stroke aphasics with semantic deficits.

Dial, Heather (2013). Separating Semantic and Phonological Short-Term Memory in Aphasic Patients Using a Novel Concurrent Probe Paradigm

Chapman, Curtiss (2016). Rethinking the Behavioral Patterns that Dissociate Semantic Dementia and Comprehension-Impaired Stroke Aphasia. Winner of Laughery Award for the best master's thesis in psychology, 2017.

Post-doctoral fellows supervised:

Cristina Romani, Ph.D., Johns Hopkins U. (Reader, Aston University, Birmingham, U.K.)

Mary Lesch, Ph.D., U. of Massachusetts, Amherst. (Cognitive Scientist/Human Factors Specialist, Liberty Mutual Research Institute)

Michelle Miller, Ph.D., UCLA. (Professor, Northern Arizona U.)

Hoang Vu, Ph.D., U. of Kansas (Professor, St. Mary's University, Oakland, CA)

Mary Newsome, Ph.D. Princeton U. (Associate Professor, Baylor College of Medicine)

Lesley Inglis, Ph.D. Macquarie U.

Chin-Lung Yang, Ph.D. U. of North Carolina, Chapel Hill (Assistant Professor, City University of Hong Kong)

Fero Kuminiak, Ph.D. Johns Hopkins University

Rachel Hull, Ph.D. Texas A & M University (Texas A & M University)

Linda Mortensen, Ph.D. University of Birmingham, England (University of Denmark)

Robert Slevc, Ph.D. University of California, San Diego (Associate Professor, University of Maryland).

A. Cris Hamilton, Ph. D. Rice University (Texas Higher Education Coordinating Board).

Aurora Ramos, Ph.D. U. of Houston. (Assistant Professor, Coastal College of Georgia).

Publications

Yan, H., Martin, R. C., & Slevc, L. R. (In press). Lexical overlap increases syntactic priming in aphasia independently of short-term memory abilities: Evidence against the explicit memory account of the lexical boost. *J. of Neurolinguistics*.

Yue, Q., Martin, R. C., Hamilton, A. C., Rose, N. S. (2018). Non-perceptual regions in the left inferior parietal lobe support phonological short-term memory: Evidence for a buffer account? *Cerebral Cortex*, 1-16

Tan, Y., & Martin, R. C. (2018). Verbal short-term memory capacities and executive function in semantic and syntactic interference resolution during sentence comprehension: Evidence from aphasia. *Neuropsychologia*, 113, 111-125.

Yue, Q., Martin, R. C., Fischer-Baum, S., Ramos-Nunez, A.I., Ye, F., Deem, M. (2017). Brain modularity mediates the relation between task complexity and performance. *Journal of Cognitive Neuroscience*, 29, 1532–1546, doi: [10.1162/jocn_a_01142](https://doi.org/10.1162/jocn_a_01142)

Ramos-Nunez, A. I., Fischer-Baum, S., Martin, R. C., Yue, Q., Ye, F., & Deem, M. (2017). Static and dynamic measures of brain connectivity predict complementary aspects of human cognitive performance. *Frontiers in Human Neuroscience*, 11, 420. doi: [10.3389/fnhum.2017.00420](https://doi.org/10.3389/fnhum.2017.00420)

Dial, H., & Martin, R. C. (2017). Evaluating the relationship between sublexical and lexical processing in speech perception: Evidence from aphasia. *Neuropsychologia*, 96, 192-212.

Tan, Y., Martin, R. C., Van Dyke, J. A. (2017). Semantic and syntactic interference in

- sentence comprehension: A comparison of working memory models. *Frontiers in Psychology*, 8:198, doi: 10.3389/fpsyg.2017.00198
- Martin, R. C., Tan, Y., Newsome, M., Vu, H. (2017). Language and lexical processing. *Neuroscience and Behavioral Psychology Reviews*. (Elsevier).
- Slevc, R. & Martin, R. C. (2016). Syntactic agreement attraction reflects working memory processes. *Journal of Cognitive Psychology*, 28, 773-790.
- Pettigrew, C. A., & Martin, R. C. (2016). The role of working memory capacity and interference resolution mechanisms in task switching. *Quarterly Journal of Experimental Psychology*, 69, 2431-2451.
- Shao, Z., Roelofs, A., Martin, R. C., & Meyer, A. S. (2015). Selective inhibition and naming performance in semantic blocking, picture-word interference, and color-word Stroop tasks. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 41, 1806-1820.
- Vuong, L., & Martin, R. C. (2015). The role of LIFG based executive control in sentence comprehension. *Cognitive Neuropsychology*, 32, 243-465.
- Martin, R.C., & Tan, Y. (2015). Sentence comprehension deficits: Independence and interaction of syntax, semantics, and working memory. In Hillis, A. T. (Ed.), *Handbook of Adult Language Disorders*. New York: Psychology Press.
- Martin, R. C., Yan, H., Schnur, T. T. (2014). Working memory and planning during sentence production. *Acta Psychologica*, 152, 120-132.
- Crowther, J. E., & Martin, R. C. (2014). Lexical selection in the semantically blocked cyclic naming task: The role of cognitive control and learning. *Frontiers in Human Neuroscience*, 8: article 9. doi: [10.3389/fnhum.2014.00009](https://doi.org/10.3389/fnhum.2014.00009)
- Pettigrew, C. A., & Martin, R. C. (2014). Cognitive declines in healthy aging: Evidence from multiple aspects of interference resolution. *Psychology and Aging*, 1, 187-204.
- Martin, R. C., & Slevc, L. R. (2014). Language production and working memory. In M. Goldrick, V. Ferreira, and M. Miozzo. *Handbook of Language Production*. New York: Oxford University Press.
- Vuong, L. C., & Martin, R. C. (2014). Domain-specific executive control and the revision of misinterpretations in sentence comprehension. *Language and Cognitive Processes*, 29, 312-325.
- Glaser, Y. G., Martin, R. C., Van Dyke, J. A., Hamilton, A. C., & Tan, Y. (2013). Neural basis of semantic and syntactic interference in sentence comprehension. *Brain and Language*, 126, 314-326.
- Rummer, R., Schweppe, J., & Martin, R. C. (2013). Two modality effects in verbal short-term memory: Evidence from sentence recall. *Journal of Cognitive Psychology*, 231-247.
- Baum, S., Martin, R. C., Hamilton, A. C., & Beauchamp, M. S. (2012). Multisensory speech perception without the left superior temporal sulcus. *Neuroimage*, 62, 1825-183.
- Schnur, T. T., & Martin, R. C. (2012). Semantic picture-word interference is a post-perceptual effect. *Psychonomic Bulletin and Review*, 19, 301-308.
- Allen, C. M., Martin, R. C., & Martin, N. (2012). Relations between short-term memory deficits, semantic processing and executive function. *Aphasiology*, 26, 428-461.
- Martin, R.C. & Allen, C. (2012). Case studies in neuropsychology. In H. Cooper (Ed.), *Handbook of Research Methods in Psychology*. Washington, D. C.: American Psychological Association.

- Martin, R. C., & Slevc, L. R. (2012). Memory disorders and impaired language and communication. In R. K. Peach & L. P. Shapiro (Eds.), *Cognition and Communication: A process-oriented approach*. Maryland Heights, MO: Elsevier.
- Schewpe, J., Rummer, R., Bormann, T., & Martin, R. C. (2011). Semantic and phonological information in sentence recall: Converging psycholinguistic and neuropsychological evidence. *Cognitive Neuropsychology*, *8*, 521-545.
- Hamilton, A. C., & Martin, R. C. (2011). Inferring semantic organization from refractory access dysphasia: Further replication in the domains of geography and proper nouns but not concrete and abstract concepts. *Cognitive Neuropsychology*, *27*, 614-635.
- Slevc, L. R., Martin, R. C., Hamilton, A. C., & Joanisse, M. F. (2011). Speech perception, rapid temporal processing, and the left hemisphere: A case study of unilateral pure word deafness. *Neuropsychologia*, *49*, 216-230.
- Vuong, L. C., & Martin, R. C. (2011). LIFG-based attentional control and the resolution of lexical ambiguities in sentence context. *Brain and Language*, *116*, 22-32.
- Martin, R. C., Crowther, J. E., Knight, M., Tamborello, F. P., & Yang, C.-L. (2010). Planning in sentence production: Evidence for the phrase as a default planning scope. *Cognition*, *116*, 177-192.
- Hamilton, A. C., Martin, R. C., & Burton, P. (2009). Converging functional magnetic resonance imaging evidence for a role of the left inferior frontal lobe in semantic retention during language comprehension. *Cognitive Neuropsychology*, *26*, 685-704.
- Madera, J., Hebl, M., & Martin, R. C. (2009). Gender and letters of recommendation for academia: Agentic and communal differences. *Journal of Applied Psychology*, *94*, 1591-1599.
- Rummer, R., Schewpe, J., & Martin, R. C. (2009). A modality congruency effect in verbal false recall. *European Journal of Cognitive Psychology*, *21*, 473-483.
- Biegler, K. A., Crowther, J. E., & Martin, R. C. (2008). Consequences of an inhibition deficit for word production and comprehension. *Cognitive Neuropsychology*, *25*, 493-527.
- Martin, R. C., & Allen, C. M. (2008). A disorder of executive function and its role in language processing. *Seminars in Speech and Language*, *29*, 201-210.
- Hull, R., Martin, R. C., Beier, M. E., Lane, D. M., & Hamilton, A. C. (2008). Executive function in older adults: A structural equation modeling approach. *Neuropsychology*, *22*, 508-522.
- Romani, C., Olson, A., McAlpine, S., & Martin, R. C. (2008). Concreteness effects in immediate serial recall: Evidence for a semantic component of STM. *Quarterly Journal of Experimental Psychology*, *61*, 292-323.
- Martin, R. C., Vuong, L. C., & Crowther, J. E. (2007). Sentence-level deficits in aphasia. In M. G. Gaskell (Ed.), *The Oxford Handbook of Psycholinguistics* (pp. 425-439). Oxford, U.K.: Oxford University Press.
- Hamilton, A. C. & Martin, R. C. (2007). Semantic short-term memory deficits and resolution of interference: A case for inhibition? In D. S. Gorfein & C. M. MacLeod (Eds.), *Inhibition in cognition* (pp. 239-257). Washington, D. C.: American Psychological Association.
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Invited Presentations

- Invited address, "Brain Connectivity and Behavioral Performance as a Function of Task Complexity," 30th Annual Convention of the Association for Psychological Science, San Francisco, May 2018.
- Workshop speaker, "Self-Regulation and Control in Language Production," Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands, Oct. 2015.
- Departmental Colloquium, Florida International University, Psychology Department, October 2014
- The Seventeenth International Conference on Cognitive and Neural Systems, Boston University, Boston, MA, June 2013.
- School of Human Development, U. of Texas at Dallas, Dallas, Tx. March 2013.
- Nijmegen Lectures, The Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands, January 2013.
- European Society for Cognitive Psychology, San Sebastian, Spain, 2011 (Broadbent Lecture). Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands, July 2011.
- Cognitive Science Society Meeting, Amsterdam, July 2009.
- American Psychological Society, San Francisco, CA., May 2009.
- Departmental Colloquium, Beijing Normal University Psychology Dept., Beijing, PRC, July 2008.
- Invited talk, 2nd Annual Eleanor Saffran Memorial Conference, Temple University, September 2007.
- Roy Roberts Memorial Lecture, Psychology Department, University of Kansas, January 2007.
- Invited talk, Workshop on Language Production, Maastricht, The Netherlands, September 2005.
- Departmental colloquium, Kent State University, April 2005.
- Invited talk, Conference on the Place of Inhibitory Processes in Cognition, UT-Arlington, March 2005.
- Invited talk, Memory Conference in Honor of Roddy Roediger, Purdue University, Lafayette, IN, March, 2005

- Invited talk, Workshop on Language Processes and Executive Control, Birmingham, England, Sept. 2004.
- Invited talk, Second International Conference on Working Memory, Kyoto, Japan, August 2004.
- Invited talk, Midwestern Psychological Association, April 2004
- Cognitive Colloquium, Texas A & M, April 2004
- Symposium participant, 20th Anniversary of Cognitive Neuropsychology, European Conference on Cognitive Neuropsychology, January 2004.
- Departmental Colloquium, Dartmouth University, October, 2003
- Departmental Colloquium, Columbia University, September 2003
- Cognitive Science Colloquium Series, Georgia Institute of Technology, Atlanta, GA, March 2003
- Invited keynote talk, Quebec STM Conference 2002, Quebec City, Quebec, July 2002
- Department Colloquium, Psychology Department, U. of Texas at Arlington, April 2002.
- Sheldon Lachman Memorial Lecture, Psychology Dept., Wayne State U., Detroit, MI, April 2001.
- Dept. Colloquium, Dept. of Neurobiology and Anatomy, U. of Texas Health Science Center, Houston, Oct. 2000.
- Cognitive Colloquium, U. of Bristol, Bristol, England, Sept. 2000.
- Lecture, Sigma Xi, Houston, Nov. 11, 1999.
- Mind, Brain and Behavior seminar series, American Psychological Association, Boston, MA., Aug. 1999.
- Festschrift for Robert Crowder, Yale U., June 1999 (with Monica Freedman)
- Psychology Dept. Colloquium, U. of Colorado, Boulder, April 1999.
- Colloquium at Neuroscience Dept., Baylor College of Medicine, Houston, Oct. 1998.
- Lecture for research methods course, Trinity University, San Antonio, Oct. 1998.
- Workshop speaker, Brain and Cognitive Neuroscience Workshop, U. of Groningen, The Netherlands, July 1-3, 1998,
- Colloquium, Dept. of Neurology, U. of Maryland Medical School, Baltimore, Md. Dec., 1997.
- Colloquium, Cognitive Sciences Dept., Johns Hopkins University, Baltimore, Md. Dec., 1997.
- Colloquium, Dept. of Neurology, Temple U. School of Medicine, Philadelphia, PA, Nov. 1997.
- Colloquium, Psychology Dept., U. of Illinois, Champaign, IL, Oct., 1997.
- Colloquium, Psychology Dept., U. of Missouri, Columbia, Sept. 1997.
- Colloquium, Psychology Dept., Washington U., St. Louis, Sept. 1997.
- Colloquium, Psychology Dept., U. of Illinois at Chicago, April 1997.
- Colloquium, Psychology Dept., U. of Wisconsin, Madison, April 1997.
- Colloquium, Baycrest Centre, Toronto, Sept. 1996.
- Colloquium, U. of Waterloo, Waterloo, Ontario, Sept. 1996.
- Symposium discussant, Fourteenth European Workshop on Cognitive Neuropsychology, Bressanone, Italy, Jan. 1996.
- George Washington University, Psychology Dept. colloquium, May 1995.
- Invited lecture. Southwestern Psychological Association meeting, San Antonio, Tx, April, 1995
- University of California at San Diego, Center for Human Information Processing, March 1995.
- Symposium on Baddeley's working memory model, Midwestern Psychological Association, Chicago, May 1994.
- Presenter in symposium titled "Short-term memory: Where do we stand?" Psychonomic Society Meeting, San Francisco, 1991.
- Paper presented at the Cognitive Neuropsychology Conference, Harrogate, England, July 1989.
- Paper presented at the International Conference on the Neuropsychology of Short-term Memory, Como, Italy, 1987.

Other Recent Presentations

- Ning, S. & Martin, R. C. (2017) Effect of bilingualism on working memory. Poster presented at the Psychonomic Society's 58th Annual Meeting, Vancouver, BC, Canada.

- Dial, H., Martin, R. C., & Schnur, T. (2017). Assessing the roles of semantic and phonological short-term memory in language production. Paper presented at the 55th annual meeting of the Academy of Aphasia, Baltimore, MD, November.
- Yue, Q., Martin, R. C., Fischer-Baum, S., & Deem, M. (2017). Brain modularity mediates the relation between sentence complexity and behavioral performance. Poster presented at the Armadillo Southwest Cognition Conference, College Station, TX, October.
- Martin, R. C. (2017). Buffer vs. embedded process models of working memory: Evidence from neuropsychology. Paper presented at the 58th Annual Meeting of the Psychonomic Society, Vancouver, BC, Canada, November.
- Schnur, T., & Martin, R. C. (2017). Competitive lexical selection and multiword speech. Poster presented at the 55th Annual Meeting of the Academy of Aphasia, Baltimore, MD, November.
- Yue, Q., & Martin, R. C. (2017). Converging evidence from univariate and multivariate fMRI analyses suggests a phonological buffer in the left supramarginal gyrus. Poster presented at the 9th Annual Meeting of the Society for the Neurobiology of Language, Baltimore, MD, November.
- Yue, Q., & Martin, R. C. (2017). Converging evidence from univariate and multivariate fMRI analyses supports a buffer over an embedded processes account of phonological short-term memory. Poster presented at the Armadillo Southwest Cognition Conference, College Station, TX, October.
- Tan, Y., & Martin, R. C. (2017). Interference and executive control in sentence comprehension: An ERP study of relative clause comprehension in Chinese. Poster presented at the 13th ICON: International Conference for Cognitive Neuroscience, Amsterdam, The Netherlands, August.
- Yue, Q., & Martin, R. C. (2017). Language and multiple demand networks jointly predict individual differences in sentence comprehension. Poster presented at the 9th Annual Meeting of the Society for the Neurobiology of Language, Baltimore, MD, November.
- Martin, R. C., & Schnur, T. (2017). Semantic short-term memory supports sentence elaboration, faster speech rate, and longer utterance length in narrative production: Evidence from acute stroke. Poster presented at the 55th Annual Meeting of the Academy of Aphasia, Baltimore, MD, November.
- Chapman, C., & Martin, R. C. (2017). Semantic control does not related to domain-general components of executive function. Poster presented at the 9th Annual Meeting of the Society for the Neurobiology of Language, Baltimore, MD, November.
- Rapp, B., Purcell, J., & Martin, R. C. (2017). The neural basis of phonological and orthographic working memory: Implications for working memory models. Poster presented at the 9th Annual Meeting of the Society for the Neurobiology of Language, Baltimore, MD, November.
- Chapman, C., & Martin, R. C. (2017). Working memory is separable from semantic control. Poster presented at the 24th Annual Neuroscience Poster Session, University of Texas health Science Center, Austin, TX, December.
- Yue, Q., Martin, R. C., Fischer-Baum, S., Ramos-Nunez, A., Ye, F., & Deem, M. (2016). Modularity mediates the relation between task complexity and performance. Poster presented at the 8th Annual Meeting of the Society for the Neurobiology of Language, London, England, August.
- Yan, H., & Martin, R. C. (2016). Dative sentence processing aphasic patients with short-term memory deficits: Implications for the choice of structure during sentence

- production. Poster presented at the 2016 ASHA (American Speech-Language-Hearing Association) Convention, Philadelphia, PA, November.
- Dial, H. R., McMurray, B., & Martin, R. C. (2016). Lexical processing depends on sublexical processing: Evidence from the visual world paradigm with aphasia. Poster presented at the 54th Annual Meeting of the Academy of Aphasia, Llandudno, Wales, October.
- Chapman, C., & Martin, R. C. (2016). Do executive deficits underlie semantic deficits in aphasia? Poster presented at the 54th Annual Meeting of the Academy of Aphasia, Llandudno, Wales, October.
- Dial, H. R., McMurray, B., & Martin, R. (2016). Evaluating the relationship between sublexical and lexical processing: Evidence from the visual world paradigm. Poster presented at the 57th Annual Meeting of the Psychonomic Society, Boston, MA, November.
- Madera, J., Hebl, M., Dial, H., Martin, R. C., & Valian, V. (2016). Raising doubt in letters of recommendation for academia: Gender differences. Poster presented at the 31st Annual Conference of the Society for Industrial and Organizational Psychology, Anaheim, CA, April.
- Martin, R. C. (2016). Neuroplasticity. Talk presented in 30th anniversary seminar series for the Institute of Biosciences and Bioengineering, Rice University, Houston, TX, April.
- Yue, Q., Dial, H., & Martin, R. C. (2016). Non-perceptual regions in the left supramarginal gyrus support phonological short-term memory: Evidence from lesion-symptom mapping and fMRI studies. Poster presented at the 54th Annual Meeting of the Academy of Aphasia, Llandudno, Wales, October.
- Rapp, B., Shea, J., Mis, R., & Martin, R. C. (2016). Domain specificity in orthographic long-term and working memory. Poster presented at the 54th Annual Meeting of the Academy of Aphasia, Llandudno, Wales, October.
- Martin, R. C., Schnur, T., & Anderson, J. (2016). Semantic but not phonological working memory supports sentence elaboration in narrative production: Evidence from left hemisphere acute stroke. Paper presented at the 54th Annual Meeting of the Academy of Aphasia, Llandudno, Wales, October.
- Martin, R. C. (2014). Embedded process vs. bugger models of working memory: Evidence from neuropsychology and neuroimaging. Poster presented at the Departmental Colloquium, Florida International University, Psychology Department, Miami, FL, October.
- Martin, R. C. (2013). How have things changed since Broca and Wernicke: A contemporary view of the neurobiology of language. Symposium presentation at the Nijmegen Lectures, Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands, January.
- Martin, R. C. (2013). Memory retrieval and interference during language comprehension. Poster presented at The 17th International Conference on Cognitive and Neural Systems, Boston University, Boston, MA, June.
- Martin, R. C. (2013). Working memory, interference resolution, and sentence processing. Presented at Colloquium at the Center for Vital Longevity, UT-Dallas, Dallas, TX, March.
- Baum, S., Nath, A., Hamilton, A. C., Martin, R. C., & Beauchamp, M. (2011). An aphasic patient with damage to the left STS shows no McGurk effect. Poster presented at the 2011 Neurobiology of Language Conference, Annapolis, MD, November.

- Tan, Y., Martin, R. C., & Van Dyke, J. (2011). Interference and working memory in sentence comprehension. Paper presented by Martin at the 52nd Annual Meeting of the Psychonomic Society, Seattle, WA, November.
- Tan, Y., * Martin, R. C. (2011). Interference and working memory in sentence comprehension. Paper presented at CUNY: Conference on Human Sentence Processing, Stanford University, CA.
- Allen, C. M., & Martin, R. C. (2011). Role for phonological short-term memory in global but not local task switch costs. Poster presented at the ESCOP: The European Society on Cognitive Psychology Conference, San Sebastian, Spain, October.
- Tan, Y., & Martin, R. C. (2011). Semantic and syntactic interference in working memory capacity. Paper presented at ESCOP: The European Society for Cognitive Psychology, San Sebastian, Spain, October.
- Martin, R. C., Allen, C. M., & Martin, N. (2011). Semantic short-term memory, semantic processing, and executive function. Paper presented at the International Conference on Memory, York, England, August.
- Martin, R. C. (2011). Working memory and language processing An updated multiple-components view. The Broadbent Lecture, presented at ESCOP: The European Society for Cognitive Psychology, San Sebastian, Spain, October.
- Martin, R. C., Tan, Y., & Van Dyke, J. (2011). Working memory, retrieval interference, and sentence comprehension deficits in aphasia. Paper presented at the 49th Annual Meeting of the Academy of Aphasia, Montreal, Quebec, Canada, October.
- Martin, R. C. (2010). The left interior frontal gyrus, interference resolution, and semantic short-term memory. Poster presented at the 13th Annual Meeting of the Cognitive Neuroscience Society, Montreal, Canada, April.