

## **CURRICULUM VITA**

### **SARAH D. BREEDIN**

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### **EDUCATION**

- 1992 Ph.D. in cognitive psychology from Rice University, Houston, TX
- 1988 M.A. in cognitive psychology from Rice University, Houston, TX
- 1983 B.S. in psychology from Georgetown University, Washington, D.C.

### **EXPERIENCE**

- 2020-present Visiting Assistant Professor of Psychology at St. Mary's College of Maryland.
- 2018-present Falmouth School Board Member, Stafford County Public Schools.
- 2016-2017 Visiting Assistant Professor of Psychology at St. Mary's College of Maryland.
- Fall 2015 Adjunct Professor of Psychology at the University of Mary Washington.
- 2013-2014 Visiting Assistant Professor of Psychology at the University of Mary Washington.
- June 2012 Advanced Placement Psychology Reader for ETS.
- 2009-2010 Adjunct Professor of Psychology at the University of Mary Washington.
- 2007-2009 Visiting Assistant Professor of Psychology at the University of Mary Washington.
- 2004-2006 Visiting Assistant Professor of Psychology at the University of Mary Washington.
- 1996-2001 Assistant Professor of Psychology at the University of North Carolina at Charlotte.
- 1994-1995 Assistant Scientist at the Center for Cognitive Neuroscience at Temple University School of Medicine.
- 1991-1994 Postdoctoral Fellow with Dr. Eleanor Saffran at the Center for Cognitive Neuroscience at Temple University School of Medicine.
- 1988-1990 Engineer Associate in the Human Computer Interaction Laboratory for Lockheed Engineering and Science Corporation at NASA, Johnson Space Center.

## **COURSES TAUGHT**

Cognitive Psychology, Cognitive Neuroscience, Neuropsychology, Sensation and Perception, General Psychology, Research Methods in Psychology, Infant/Child Development, Adolescent Development, and Lifespan Development.

## **PROFESSIONAL ORGANIZATIONS**

Academy of Aphasia  
American Psychological Society  
Council on Undergraduate Research  
Virginia School Board Association

## **ACTIVITIES**

Ad Hoc Reviewer: *Aphasiology*, *Brain and Language*, *Cognitive Neuropsychology*, *Ear and Hearing*, *International Journal of Man-Machine Studies*, *Journal of Communication Disorders*, *Journal of Neurolinguistics*, *Journal of Neurological Rehabilitation*, *Journal of Memory and Language*, and *Neurocase*.

Gifted Advisory Committee, Stafford County, VA Public Schools (2008-2012).

MathCounts Coach, Edward E. Drew Middle School (2007-2015).

UNCC Department of Psychology Assessment Committee (1998-1999).

UNCC Faculty Development Committee (1996-1997).

## **GRANTS**

Goolkasian, P. (PI), Breedin, S., Croy, M., Davis, B., Foos, P., Gaultney, J., Hadzikadic, M., Van Wallendael, & L., Zytkow, J. (Project Team). (1999-2001) Web-based materials for an interdisciplinary course in cognitive science. National Science Foundation: CCLI-EMS. (\$200,000).

Breedin, S.D. (1999) An investigation into the semantic complexity of verbs. University of North Carolina at Charlotte Junior Faculty Summer Fellowship (\$3500).

Breedin, S.D. (1997-1998) An investigation into how concepts are represented in the brain. University of North Carolina at Charlotte Faculty Support Grant (\$3690).

Breedin, S.D. (1997) An investigation into how concepts are represented in the brain. University of North Carolina at Charlotte Junior Faculty Summer Fellowship (\$3500).

## **MASTER'S THESIS**

A comparison of discrimination for speech and nonspeech and implications for theories of speech perception. (1988). Committee: Dr. Randi C. Martin (Chair), Dr. William C. Howell, Dr. David Lane

## **DOCTORAL DISSERTATION**

The relationship of semantic and syntactic aspects of verb representation. (1991). Committee: Dr. Randi C. Martin (Chair), Dr. Henry L. Roediger III, Dr. Nancy J. Cooke, Dr. Livia Polanyi

## **PUBLICATIONS**

Breedin, S.D., & Saffran, E.M. (2001). Reply to "The frequency paradox in disguise: A response to Breedin, Saffran, and Schwartz" (1998) by Jun Yamada. *Brain and Language*, 78, 262-264.

- Breedin, S.D., & Saffran, E.M. (1999). Sentence processing in the face of semantic loss: A case study. *Journal of Experimental Psychology: General*, *128*, 547-562.
- Martin, R.C., Breedin, S.D., & Damian, M. (1999). The relation of phoneme discrimination, lexical access and short-term memory: A case study and interactive activation account. *Brain and Language*, *70*, 437-482.
- Breedin, S.D., Saffran, E.M., & Schwartz, M.F. (1998). Semantic factors in verb retrieval: An effect of complexity. *Brain and Language*, *63*, 1-31.
- Srinivas, K., Breedin, S.D., Coslett, H.B., & Saffran, E.M. (1997). Intact perceptual priming in a patient with damage to the anterior inferior temporal lobes. *Journal of Cognitive Neuroscience*, *9*, 490-511.
- Breedin, S.D., & Martin, R.C. (1996). Patterns of verb impairment in aphasia: An analysis of four cases. *Cognitive Neuropsychology*, *13*, 51-91.
- Breedin, S.D., Saffran, E.M., & Coslett, H.B. (1994). Reversal of the concreteness effect in a patient with semantic dementia. *Cognitive Neuropsychology*, *11*, 617-660.
- Breedin, S.D., Saffran, E.M., & Coslett, H.B. (1994). Abstract better than concrete: Implications for the psychological and neural representations of concrete concepts. *Center for Research in Language Newsletter*, *8*, 3-8.
- Cooke, N.M., & Breedin, S.D. (1994). Constructing naive theories of motion on-the-fly. *Memory and Cognition*, *22*, 474-493.
- Cooke, N.M., & Breedin, S.D. (1994). Naive misconceptions of Cooke and Breedin's research: Response to Ranney. *Memory and Cognition*, *22*, 503-507.
- Gillan, D.J., Breedin, S.D., & Cooke, N.J. (1992). Network and multidimensional representations of the declarative knowledge of human-computer interface design experts. *International Journal of Man-Machine Studies*, *36*, 587-615.
- Martin, R.C., & Breedin, S.D. (1992). Dissociations between speech perception and phonological short-term memory deficits. *Cognitive Neuropsychology*, *9*, 509-534.
- Breedin, S.D., Martin, R.C., & Jerger, S. (1989) Distinguishing auditory and speech-specific perceptual deficits. *Ear and Hearing*, *10*, 311-317.
- Martin, R.C., Jerger, S. & Breedin, S. (1987). Syntactic processing of auditory and visual sentences in a learning disabled child: Relation to short-term memory. *Developmental Neuropsychology*, *3*, 129-152.

**PRESENTATIONS** \* denotes student collaborator

- Mailloux, J., Breedin, S., \*Roschelli, S., \*Thorne, N., \*Gaskill, J., (2011). *Influence of numeracy and thinking style on a novel ratio-bias task*. American Psychology Society.
- \*Roschelli, S., \*Thorne, N., \*Gaskill, J., Mailloux, J., & Breedin, S. (2010). *Influence of numeracy and thinking style on a novel ratio-bias task*. Paper presented at the annual meeting of the Virginia Psychological Association, Norfolk, VA.
- Breedin, S.D., Boronat, C.B., Saffran, E.M., & \*Shipley, J.E. (1999). The role of semantic complexity in verb retrieval: Part 2. *Thirty-seventh Meeting of the Academy of Aphasia: Brain and Language*, *69*, 264-267.

- \*Steenrod, M., & Breedin, S.D. (1999). *Category specific deficits in individuals with aphasia*. UNCC McNair Summer Fellowship Program, Charlotte, NC.
- Breedin, S.D., Martin, N., & Saffran, E.M. (1996). Category-specific semantic deficits and the role of stimulus type. *Thirty-seventh annual meeting of the Psychonomic Society*.
- Breedin, S.D., Martin, N., & Saffran, E.M. (1996). *Category specific semantic impairments as the result of brain damage*. North Carolina Cognition Group's Annual Meeting.
- Breedin, S.D., Martin, N., & Saffran, E.M. (1994). Category specific semantic impairments: An infrequent occurrence? *Thirty-second Meeting of the Academy of Aphasia: Brain and Language*, 47, 383-386.
- Breedin, S.D., Saffran, E.M., & Coslett, H.B. (1993). The selective loss of concrete words: A case study. *Thirty-fourth Annual Meeting of the Psychonomics Society*.
- Breedin, S.D., Saffran, E.M., & Schwartz, M.F. (1993). The role of semantic complexity in verb retrieval. *Thirty-first Meeting of the Academy of Aphasia*.
- Saffran, E.M., & Breedin, S.D. (1993). Sentence processing in the face of semantic impairment: A case study. *Thirty-first Meeting of the Academy of Aphasia*.
- Breedin, S.D., & Saffran, E.M. (1993). Sentence processing in the presence of semantic loss: A case study. *Sixth Annual Meeting of CUNY Sentence Processing Conference*.
- Breedin, S.D. (1992). Buy low - buy high? - A selective impairment of thematic role representation. *Thirtieth Meeting of the Academy of Aphasia*.
- Breedin, S.D., & Martin, R.C. (1991). The independence of thematic role information. *Thirty-second Annual Meeting of the Psychonomics Society*.
- Breedin, S.D., & Martin, R.C. (1990). Phonological discrimination and lexical access. *Twenty-eighth Meeting of the Academy of Aphasia*.
- Gillan, D.J., & Breedin, S.D. (1990). Models of the human-computer interface. In J.C. Chew and J. Whiteside (Eds.), *Human factors in computing systems: CHI'90 Conference Proceedings* (pp. 391-398). New York: ACM.
- Cooke, N.J., & Breedin, S.D. (1990). Implicit knowledge about motion. *Thirty-first Annual Meeting of the Psychonomics Society*.
- Breedin, S.D., & Martin, R.C. (1989). Evidence for speech specific processors. *Twenty-seventh Meeting of the Academy of Aphasia*.

#### **ONLINE CHAPTERS**

- Breedin, S.D. (2000). Brain mechanisms in cognition. *Cognitive Science*, <http://cogsci.uncc.edu>.
- Breedin, S.D., & Davis, B. (2001). Speech production and speech perception. *Cognitive Science*, <http://cogsci.uncc.edu>.

#### **INVITED TALKS**

- Breedin, S.D. (1994). *Abstract Better than Concrete: Implications for the Psychological and Neural Representations of Concepts*. Neurosciences Colloquium Series at the National Institutes for Health.

Breedin, S.D. (1996). *Semantic Factors in Verb Retrieval*. Cognitive Science Colloquium Series at Johns Hopkins University.

## **REFERENCES**

Dr. Jennifer Mailloux  
Associate Professor  
Department of Psychology  
University of Mary Washington

Dr. Randi C Martin  
Elma Schneider Professor  
Department of Psychology  
Rice University

Dr. Elizabeth Rochon  
Professor  
Department of Speech-Language Pathology  
University of Toronto