

## CURRICULUM VITAE

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### **Education:**

University of Rochester, 1961-1965, A.B. 1965, Linguistics  
Harvard University, 1965-1970, Ph.D. 1970, Linguistics

### **Professional Appointments:**

Harvard University, Teaching Fellow in Linguistics, 1968-70  
Harold Goodglass Aphasia Research Center, Research Assistant, 1967-70, Research Associate, 1970-present.  
Brown University, Assistant Professor of Linguistics, 1970-76, Associate Professor of Linguistics, 1976-1981, Professor of Linguistics, 1981-86, Professor of Cognitive and Linguistic Sciences, 1986-1991, Albert D. Mead Professor of Cognitive and Linguistic Sciences, 1991-2011; Albert D. Mead Professor of Cognitive, Linguistic, and Psychological Science, 2011-  
Dean of the College, Brown University, 1987-95.  
Interim Provost, Brown University, 1-6/98.  
Chairman, Department of Linguistics, 1978-1981; Chairman, Department of Cognitive and Linguistic Sciences, 1986-87; 1997-98, Sem. I, 1998-99.  
Interim President, Brown University, 2/2000-7/2001.  
Associate Chair, Department of Cognitive and Linguistic Sciences, 2008-2009  
M.I.T. Research Laboratory of Electronics, Visiting Scientist, 1/1974-8/1974, 1977-78, Consultant, 1974-1977.  
Wellesley College, Visiting Henry R. Luce Professor of Language, Mind and Culture, 1982-1983.  
Scientific Staff, Department of Medicine, Roger Williams Hospital, 1984 - 2000.  
Research Associate, Veterans Administration Medical Center, Providence 1985 - 2016.

### **Honors and Awards:**

Phi Beta Kappa, 1964; Phi Sigma Iota, 1965; Honorary Woodrow Wilson Fellow, 1965; A.B. with High Distinction; National Defense Education Act Title IV Fellowship, 1965-1968; National Institutes of Health Pre-Doctoral Fellowship, 1968-1970; Guggenheim Fellow, 1977-1978; Radcliffe Institute Fellow, 1977-1978; Fellow, Acoustical Society of America, 1982-; Claude Pepper (Javits Neuroscience) Investigator Award, 1985-92; Fellow, American Academy of Arts and Sciences, 1993-; Fellow, American Philosophical Society, 1998-; Doctor of Science, Honoris Causa, Brown University, 2001; Susan Colver Rosenberger Medal, Brown University, 2001; Hazeltine Senior Citation, Brown University, 2002; Independent Award, Brown University Club in New York, 2002; Fellow, American Association for the Advancement of Science, 2005; Susan B. Anthony Legacy Award, University of Rochester, 2005; Fellow, Linguistic Society of America, 2009; Fellow, American Psychological Society, 2010; Silver Medal in Speech Communication, Acoustical Society of America, 2014.

### **Completed Research:**

#### **Books:**

*A Phonological Investigation of Aphasic Speech*, Mouton, 1973.

*Psycholinguistics and Aphasia*, H. Goodglass and S. Blumstein (eds.) Johns Hopkins Press, 1973.

*Speech Physiology, Speech Perception, and Acoustic Phonetics*, P. Lieberman and S. E. Blumstein, Cambridge University Press, 1988.

*Aphasiology : Special Issue in Honour of Harold Goodglass*, S.E. Blumstein and E.B. Zurif (eds.), Taylor and Francis Ltd., 1988.

### Articles

H. Goodglass, M. Hyde, and S. Blumstein. 1969. Frequency, picturability, and availability of nouns in aphasia., *Cortex*, , 5, 104-119.

F. Spellacy and S. Blumstein. 1970. The influence of language set on ear preference in phoneme recognition. *Cortex*, 6, 430-439.

F. Spellacy and S. Blumstein. 1970. Perception of language and non-language sounds. *Journal of Auditory Research*, 10, 349-355.

.S. Blumstein and W. Cooper. 1972. Identification vs. discrimination of distinctive features in speech perception, *Quarterly Journal of Experimental Psychology*, 24, 207-214.

S. Blumstein and H. Goodglass. 1972. Perception of stress as a semantic cue in aphasia. *Journal of Speech and Hearing Research*, 15, 800-806.

S. Blumstein. 1974. The use and theoretical implications of the dichotic listening technique for investigating distinctive features. *Brain and Language*, 1, 337-350.

S. Blumstein and W. Cooper. 1974. Hemispheric processing of intonation. *Cortex*, 10, 146-158.

W. Cooper and S. Blumstein. 1974. A 'labial' feature analyzer in speech perception. *Perception and Psychophysics*, 15, 591-600.

S. Blumstein, H. Goodglass, V. Tartter. 1975. The reliability of ear advantage in dichotic listening. *Brain and Language*, 2, 226-236.

M. Oscar-Berman, E. Zurif, and S. Blumstein. 1975. Effects of unilateral brain damage on the processing of speech sounds., *Brain and Language*, 2, 345-355.

W.E. Cooper, S.E. Blumstein, and G. Nigro. 1975. Articulatory effects on speech perception: a preliminary report. *Journal of Phonetics*, 3, 87-98.

K.N. Stevens and S.E. Blumstein. 1975. Quantal aspects of consonant production and perception: a study of retroflex stop consonants. *Journal of Phonetics*, 3, 215-233.

M. Oscar-Berman, S. Blumstein, D. DeLuca. 1976. Iconic recognition of musical symbols in the lateral visual fields., *Cortex*, 12, 241-248.

S. Blumstein, W.E. Cooper, E. Zurif, A. Caramazza. 1977. The perception and production of voice-onset time in aphasia, *Neuropsychologia*, 15, 371-383.

S. Blumstein, H. Goodglass, E. Baker. 1977. Phonological factors in auditory comprehension in aphasia. *Neuropsychologia*, 5, 19-30.

S. Blumstein and K.N. Stevens. 1977. Property detectors for bursts and transitions in speech perception. *J. Acoust. Soc. Am.*, 61, 1301-1313.

L. Hall and S.E. Blumstein. 1977. The effect of vowel similarity and syllable length on acoustic memory. *Perception and Psychophysics*, 22, 95-99.

S. Blumstein, V. Tartter, D. Michel, B. Hirsch, E. Leiter. 1977. The role of distinctive features in the perception of vowels. *Brain and Language*, 4, 508-520.

- L. Hall and S.E. Blumstein. 1978. The effect of syllabic stress and segment structure on the identification of speech sounds, *Perception and Psychophysics*, 24, 137-144.
- P. Keating and S.E. Blumstein. 1978. Effects of transition length on the perception of stop consonants. *J. Acoust. Soc. Am.*, 64, 57-64.
- K.N. Stevens and S.E. Blumstein. 1978. Invariant cues for place of articulation in stop consonants., *J. Acoust. Soc. Am.*, 64, 1358-68.
- H. Goodglass, S.E. Blumstein, J.B. Gleason, M.R. Hyde, E. Green, and S. Statlender. 1979. The effect of syntactic encoding on sentence comprehension in aphasia, *Brain and Language*, 7, 201-209.
- S.E. Blumstein and K.N. Stevens. 1980. Perceptual invariance and onset spectra for stop consonants in different vowel environments. *J. Acoust. Soc. Am.* 67, 648-662.
- S.E. Blumstein and K.N. Stevens. 1979. Acoustic invariance in speech production: evidence from measurements of the spectral characteristics of stop consonants. *J. Acoust. Soc. Am.*, 66, 1001-1017.
- S.E. Blumstein, W.E. Cooper, H. Goodglass, S. Statlender, J. Gottlieb. 1980. Production deficits in aphasia: a voice-onset time analysis. *Brain and Language*, 9, 153-170.
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- V. Tartter, and S.E. Blumstein. 1981. The effects of pitch and spectral differences on phonetic fusion in dichotic listening. *J. of Phonetic* , 9, 251-259.
- S. Chang and S.E. Blumstein. 1981. The role of onsets in perception of stop place of articulation: effects of a spectral and temporal discontinuity. *J. Acoust. Soc. Am.* 70, 39-44.
- S.E. Blumstein and K.N. Stevens. 1981. Phonetic features and acoustic invariance in speech, *Cognition*, 10, 25-32.
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- S. Baum and S.E. Blumstein. 1987. Preliminary observations on the use of duration as a cue to syllable-initial fricative consonant voicing in English. *J. Acoust. Soc. Amer.*, 82, 1073-1077.
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- Kessinger, R. and Blumstein, S.E. 1997. Rate of speech effects on voice-onset time in Thai, French, and English. *J. Phonetics*, 25(2), 143-168.
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- Luthra, S., Guediche, S., Blumstein, S. E., & Myers, E. B. (2019). Neural substrates of subphonemic variation and lexical competition in spoken word recognition. *Language, Cognition and Neuroscience*, 34(2), 151-169.
- Luthra, S., Fuhrmeister, P., Molfese, P. J., Guediche, S., Blumstein, S. E., & Myers, E. B. (2019). Brain-behavior relationships in incidental learning of non-native phonetic categories. *Brain and language*, 198, 104692.
- Reilly, M., Machado, N., & Blumstein, S. E. (2019). Distinctive semantic features in the healthy adult brain. *Cognitive, Affective, & Behavioral Neuroscience*, 19(2), 296-308.



### **Chapters**

- Blumstein, S. 1968. Phonological Aspects of Aphasic Speech. In C. Gribble (ed.) *Studies Presented to Roman Jakobson by his Students*, Slavica Publishers.
- Blumstein, S. 1973. Some phonological implications of aphasic speech. In H. Goodglass and S. Blumstein (eds.), *Psycholinguistics and Aphasia*, Johns Hopkins Press.
- Blumstein, S. 1974. Linguistic aspects of aphasia. In E. Strauss (ed.) *Proceedings of the Fifth Conference on Phenomenology: Pure and Applied*, Duquesne.
- Blumstein, S. 1975. Structuralism in linguistics: historical and methodological perspectives, in K. Riegel (ed.), *Structure, Transformation Interaction: Developmental and Historical Aspects*, Wiley.
- Blumstein, S. 1978. The perception of speech in pathology and ontogeny. In E. Zurif and A. Caramazza (eds.), *The Acquisition and Dissolution of Language*, Johns Hopkins Press.
- Blumstein, S. 1978. Segment organization and syllable structure in aphasia. A. Bell and J.B. Hooper (eds.), *Syllables and Segments*, North-Holland Publishing Company.
- E. Zurif and S.E. Blumstein. 1978. Language and the brain. In M. Halle, J. Bresnan, and G.A. Miller (eds.), *Linguistic Theory and Psychological Reality*, M.I.T. Press.
- Blumstein, S. 1980. Speech perception: an overview. In G. Yeni-Komshian, J. Kavanaugh, and C. Ferguson (eds.), *Child Phonology: Perception and Production*, Academic Press.
- Blumstein, S. 1981. Neurolinguistics: Language-brain relationships. In S.B. Filskov and T.J. Boll (eds.), *Handbook of Clinical Neuropsychology*, John Wiley.
- K.N. Stevens and S.E. Blumstein. 1981. The search for invariant acoustic correlates of phonetic features. In P.D. Eimas and J.L. Miller, *Perspectives on the Study of Speech*. Erlbaum.
- Blumstein, S. 1981. Phonological aspects of aphasia. In M.T. Sarno, *Acquired Aphasia*, Academic Press.
- Blumstein, S. 1981. Perception of speech in aphasia: its relation to language comprehension, auditory processing, and speech production. In T. Myers, J. Laver, and J. Anderson, *The Cognitive Representation of Speech*, North-Holland.
- Blumstein, S. 1982. Language dissolution in aphasia: evidence for linguistic theory. In L. Obler and L. Menn (ed.). *Exceptional Language and Linguistics*, Academic Press.
- Blumstein, S. 1986. On acoustic invariance in speech. In J. Perkell, G. Fant, B. Lindblom, D. Klatt and S. Shattuck-Hufnagel (eds.), *Invariance and Variability of Speech Processes*, Erlbaum.
- Blumstein, S. 1987. Speech perception and modularity: Evidence from aphasia. In E. Keller and M. Gopnik (eds.), *Motor and Sensory Processes in Language*. Erlbaum.
- S.E. Blumstein and S. Baum. 1987. Consonant production deficits in aphasia. In J. Ryalls, *Phonetic Approaches in Speech Production in Aphasia and Related Disorders*, College-Hill.
- Blumstein, S. 1988. Linguistic deficits in aphasia. In F. Plum, *Language, Communication, and the Brain*, Association for Research in Nervous and Mental Diseases, Vol. 66, Raven Press.
- Blumstein, S. 1988. Approaches to speech production deficits in aphasia. In F. Boller and J. Grafman, *Handbook of Neuropsychology*, Elsevier Press.

- Blumstein, S. 1988. Neurolinguistics: An overview of language-brain relations in aphasia. In F. Newmeyer (Ed.). *Linguistics: The Cambridge Survey. III*. Cambridge University Press.
- Blumstein, S. 1990. Phonological deficits in aphasia: theoretical perspectives. In A. Caramazza (Ed.), *Advances in Cognitive Neuropsychology*, Lawrence Erlbaum.
- Blumstein, S. 1991. Phonological aspects of aphasia. In M.T. Sarno (Ed.). *Acquired Aphasia*, 2nd edition, Academic Press.
- Blumstein, S. 1991. Psycholinguistic Approaches to Neurolinguistics. *Oxford International Encyclopedia of Linguistics*, William Bright (Ed.), Oxford University Press.
- Blumstein, S. 1991. Speech Perception. *Oxford International Encyclopedia of Linguistics*, William Bright (Ed.), Oxford University Press.
- K. Kurowski and S.E. Blumstein. 1993. Acoustic properties for the perception of nasal consonants. In M.K. Huffman and R. Krakow (eds.). *The Feature Nasal: Phonetic Bases and Phonological Implications*. Academic Press.
- Blumstein, S. 1994. The neurobiology of the sound structure of language. In M. Gazzaniga (Ed.). *Handbook of Cognitive Neuroscience*.
- Blumstein, S. 1994. Speech production and speech perception deficits in aphasia. In B. Butterworth, J. Morton, M. Snowling, and E. Warrington (Eds.). *The Acquisition and Dissolution of Language*. Philosophical Transactions of the Royal Society of London, Series B, 346, 29-36.
- Blumstein, S. 1995. The neurobiology of language. In J. Miller and P. Eimas (eds.). *Speech, Language, and Communication*, Academic Press.
- Blumstein S.E. 1998. Phonological aspects of aphasia. In M.T. Sarno (ed.), *Acquired Aphasia*, 3rd edition. New York: Academic Press.
- Blumstein, S.E. 1999. The neural basis of phonology. In R.W. Wilson and F.C. Keil (Eds.). *MIT Encyclopedia of the Cognitive Sciences*. Cambridge: MIT Press.
- Blumstein, S.E. and Milberg, W. 2000. Language deficits in Broca's and Wernicke's aphasia: A singular impairment. In Y. Grodzinsky, L. Shapiro, and D. Swinney (Eds.). *Language and the Brain: Representation and Processing*. New York: Academic Press.
- Blumstein, S.E. 2000. Deficits of speech production and speech perception in aphasia. In R. Berndt (Ed.). *Handbook of neuropsychology*, 2<sup>nd</sup> edition, Vol.2, The Netherlands: Elsevier Science.
- Cutler, A. and Blumstein, S.E. 2003. Speech perception. W. J. Frawley (Ed.). *Oxford International Encyclopedia of Linguistics*, 2<sup>nd</sup> edition.
- Baum, S. and Blumstein, S.E. 2003. Psycholinguistics: Approaches to Neurolinguistics. W. J. Frawley (Ed.). *Oxford International Encyclopedia of Linguistics*, 2<sup>nd</sup> edition.
- Blumstein, S.E. Phonology and adult aphasia. 2004. In R. Kent (Ed.). *MIT Encyclopedia of Communication Disorders*, Cambridge: MIT Press.
- Blumstein, S.E. 2004. Phonetic category structure and its influence on lexical processing. Proceedings of the Texas Linguistic Society, Cascadilla Press.
- Blumstein, S.E. 2007. Word recognition in aphasia. In G. Gaskell (Ed.). *Oxford Handbook of Psycholinguistics*.
- Blumstein, S.E. 2009. Reflections on the cognitive neuroscience of language. In M. Gazzaniga (Ed). *The Cognitive Neurosciences IV*, Cambridge: MIT Press.
- Blumstein, S.E. 2011. Neural Systems Underlying Lexical Competition in Auditory Word Recognition and Spoken Word Production: Evidence from Aphasia and Functional Neuroimaging. In G. Gaskell & P. Zwitserlood. *Lexical Representation: A Multidisciplinary Approach*. The Hague: Mouton.

Blumstein, S.E. and Myers, E.B. 2014. Neural systems underlying speech perception. K. Ochsner and S. Kosslyn (Eds.). *Oxford Handbook of Cognitive Neuroscience*, Volume I; New York: Oxford University Press.

Blumstein, S.E. and Baum, S. 2015. The neurobiology of speech production. In G. Hickok and S. Small (Eds.). *The Neurobiology of Language*, Elsevier.

Blumstein, S.E. 2015. Psycholinguistic approaches to the study of syndromes and symptoms of aphasia. In G. Hickok and S. Small (Eds.). *The Neurobiology of Language*, Elsevier.

Blumstein, S.E. 2017. Phonetic categories and phonological features: Evidence from the cognitive neuroscience of language. In A. Lahiri (ed.). *Lexical and Speech Processing*. Berlin: Mouton.

Blumstein, S.E. 2018. Neurolinguistics: A Brief Historical Perspective. In de Zubicaray, Miozzo, Schiller (Eds.). *Handbook of Neurolinguistics*. Oxford University Press, 2019.

### ***Book Reviews and Commentaries***

Blumstein, S. 1974. A Review of: Generative Phonology - Evidence from Aphasia, M. Schnitzer, *Cortex*, 10, 206-207.

Blumstein, S. 1977. Review of: E.D. Mysak, Pathologies of Speech Systems. *J. Acoust. Soc. Am.*, , 61, 623.

Blumstein, S. 1978. Review of: H. Whitaker and H.A. Whitaker (eds.), Studies in Neurolinguistics Vol. I and II. *Contemporary Psychology*, 23, 239-240.

Blumstein, S. 1978. Review of: S. Harnad, H. Steklis, and J. Lancaster (eds.) Origins and Evolution of Language and Speech, *J. Acoust. Soc. Am.*, 64, 1543 (B).

Blumstein, S. 1979. "Phrenology, 'boxology,' and neurology," commentary on "Neurolinguistics Must be Computational," M. Arbib and D. Caplan, *Behavioral and Brain Sciences*, 2, 148-149.

Blumstein, S. 1984. The spectral characteristics of stop consonants provide important clues to the nature of place of articulation production in Broca's aphasia. A reply to W. Ziegler, S. Blumstein and P. Shinn, *Brain and Language*, 23, 171-174.

.S.E. Blumstein and K.N. Stevens. 1985. On some issues in the pursuit of acoustic invariance in speech: A reply to Lisker, *J. Acoust. Soc. Am.*, 77, 1203-1204.

W. Milberg and S. E. Blumstein. 1989. Reaction time methodology and the aphasic patient: A reply to Hagoort. *Brain and Language*, 36, 349-353.

Blumstein, S.E. 1998. Mapping from acoustic structure to the phonetic categories of speech: The invariance problem. Commentary on H. Sussman et al., The orderly output constraint: A functional role for highly correlated, linearly related components in the speech signal. *Behavioral and Brain Sciences*, 21, 260.

### ***Invited Lectures (selected list):***

Fifth Conference on Phenomenology, Lexington, 1972.

American Psychological Association, Montreal, 1973.

International Neuropsychology Symposium, Crete, 1975.

Alexander Graham Bell Symposium, M.I.T. and A.T. & T., co-sponsors, Cambridge, Massachusetts, 1976, Language and the brain, with E. Zurif.

International Neuropsychology Society, Santa Fe, 1977, Neurolinguistics.

Symposium on Segment Structure and the Syllable, Boulder, 1977, Segment Structure and the Syllable in Aphasia.

Sloan Foundation, Language and the Brain, Cornell Medical School, New York, 1977.

National Institute of Child Health and Development Conference on Child Phonology: Perception, Production, and Deviation, Bethesda, 1978.

Sloan Foundation, Neurolinguistics and Cognition, University of California, San Diego, 1979, Speech and Aphasia.

International Symposium on the Cognitive Representation of Speech, University of Edinburgh, 1979.

Dean's Convocation, Language and the Brain: A Field of Human Inquiry, Brown University, 1980.

Neuropsychology class, Neurolinguistics, Johns Hopkins University, 1981, 1983.

The New York Academy of Science, Bases for Language Comprehension Deficits in Aphasia, 1981.

Symposium on Linguistic Theory and Psychological Reality Revisited, Linguistic Deficits in Aphasia, with E.B. Zurif, Princeton University, April, 1982.

Speech and Hearing Sciences, Northwestern University, On acoustic invariance in speech, May, 1982.

International Neuropsychology Symposium, Phonological Processing in Aphasia, Ravello, Italy, June, 1982.

Psychology Colloquium, M.I.T., Linguistic deficits in aphasia: a reconsideration, September, 1982.

Academy of Aphasia, Symposium on Classification in Aphasia, Lake Mohonk, New Paltz, N.Y., October, 1982.

Speech Group Seminar, M.I.T., Towards a theory of acoustic invariance, October, 1982.

Language and the brain, Wellesley College, March, 1983.

Massachusetts General Hospital and MGH Institute of Public Health Professions, Language deficits in aphasia, Salve Regina College, July, 1983.

Academy of Aphasia, Symposium on automaticity in language, Minneapolis, October, 1983.

Psychological Society of Rhode Island, Research Applications in Aphasia, November, 1984.

American Speech and Hearing Association, Symposium on the Evolution of Human Speech and Language, Washington, D. C. November 1985.

Psychonomic Society, Recent Advances in Cognitive Neuropsychology, Boston, November, 1985.

Association for Research in Nervous and Mental Diseases, Symposium on Language, Communication, and the Brain, New York, 1986.

Acoustical Society of America, A tutorial in speech perception, Anaheim, Cal., 1986.

Gordon Research Conference on Implantable Auditory Prostheses, The codable aspects of speech, New London, NH, 1987.

Iona College, Symposium on Core Curricula in Higher Education, New Rochelle, NY, 1988.

James S. McDonnell Foundation Summer Institute in Cognitive Neuroscience, On 'losing' the lexicon: Insights from brain-damage, Dartmouth College and Medical School, NH, 1990.

National Institutes of Deafness and Other Communication Disorders, Third Annual Lecture, Language and the Brain: A Window into the Mind, Bethesda, Md., 1991.

Florida Society of Neurology, Two tutorial lectures: Speech processing in aphasia; Syntactic processing deficits in aphasia, Orlando, Fla., 1992.

New York Academy of Sciences, Lexical and syntactic processing deficits in aphasia, New York, New York, 1992.

James S. McDonnell Foundation Summer Institute in Cognitive Neuroscience. The neurobiology of the sound structure of language, Lake Tahoe, CA, 1993.

Royal Society of London. Speech production and speech perception deficits in aphasia. London, England, 1994.

International Congress of Phonetic Sciences, On the neurobiology of the sound structure of language, Stockholm, 1995.

Academy of Aphasia, Keynote address, A perspective on the neurobiology of language, San Diego, 1995.

Workshop on Neural Basis of Cognition and Language, Harvard University, Mapping acoustic structure to lexical representation, April, 1997.

Academy of Aphasia, Symposium Honoring Harold Goodglass. Psycholinguistic approaches to aphasia: From sound to meaning, Santa Fe, New Mexico, 1998.

Eastern Psychological Association, Invited Lecture Series. Lexical processing: A neurobiological perspective, Providence, 1999.

Behavioral Neuroscience Seminar Series. Neural basis of speech processing: Clinical and fMRI findings. Brigham and Women's Hospital, Boston, 1999.

American Philosophical Society. When words betray us: A perspective on the neurobiology of language, Philadelphia, 2000.

Conference on Dynamics of Coarticulation in Speech Production and Perception, Invited Speaker. Phonetic category structure and its influence on lexical processing, Texas Linguistic Society, 2003

Frances Ingemann Lecture, University of Kansas, Neural systems underlying variability and constancy in speech and lexical processing: Evidence from lesion and neuroimaging investigations, 2008.

Oxford University, On the Architecture of Speech and Lexical Processing: Evidence from Aphasia and Neuroimaging, 2011.

Cambridge University. Behavioral, Neuropsychological, and Brain Imaging Investigations of Auditory Speech and Word Processing, 2011.

4<sup>th</sup> Annual Stroke Conference at Memorial Hospital of Rhode Island, Speech and language deficits after stroke: Some Clinical and Research Findings, 2011.

Women's Leadership Conference: 120 Years of Women at Brown, Keynote luncheon speaker, Still Happy After All These Years, 2012.

American Academy for the Advancement of Science Symposium "Teaching the Brain to Speak Again: New Frontiers in Trauma and Stroke Recovery", Auditory Modeling Improves Aphasic Speech Production Recovery, Boston, Ma, 2013.

Linguistic Society of America Summer Institute, Workshop on Universality and Variability, Neural Systems Underlying Resolution of Invariance and Variability in Speech : Implications for Language Processing Models, University of Michigan, 2013.

Workshop on Speech and Lexical Processing, Oxford University, Words and Sounds, Production and Perception, Brain and Behavior: Back to the Future. Held at Upper Slaughter, England, 2014.

Language Fest Workshop, University of Connecticut, Variability and Invariance in Speech and Lexical Processing: Evidence from Aphasia and Functional Neuroimaging, 2015.

The 12<sup>th</sup> Annual Eleanor M. Saffran Conference on Cognitive Neuroscience and Rehabilitation of Communication Disorders. Auditory Input Processing in Acquired Aphasia, 2017.

***Invited Colloquia (selected list):***

University of Victoria (1977); University of Hawaii (1970); M.I.T. (1973, 1975, 1977, 1995); Harvard University (1976); University of Connecticut (1974, 1979); Michigan State University (1974); University of Massachusetts, Amherst, Sloan Foundation, (1979); Linguistic Society of America (1979); Boston University (1979); Brandeis University (1980); Wheaton College (1980); Johns Hopkins University (1980, 1984); University of Minnesota (1980); University of Texas (1983); Boston V.A. Hospital (1985); University of Chicago, (1986); Harvard University (Cognitive Science Table, 1986); McGill University (1988); U. California, San Diego (1995); Montreal Neurological Institute (1995); Northwestern University (1995); MIT (1996); University of Neuchatel (1996); Nestle Hospital, Lausanne (1996); University of Rochester (1998); MIT (1999); University of Texas at Dallas (1999), MIT (2001); Steer Lecture, Purdue University, 2002; NIH NIDCD Council Meeting, 2002; SUNY Buffalo, 2002; MGH-Institute of Health Professionals, 2002; University of Rochester, 2003; Columbia University, 2003; Neuroscience graduate program seminar series, Brown University, 2003; University of Maryland School of Medicine, 2005; Medical College of Wisconsin, 2005; MIT 2005; University of Pennsylvania, 2005; Boston University, 2006; Northwestern University, 2006; University of Chicago, 2006; Brown University 2007; Harvard University, 2007; McGill University; Haskins Laboratories 2009; BCS, MIT, 2010; Georgetown, 2011; CNBC, Carnegie Mellon and University of Pittsburgh, 2012; Tufts University, 2014; University of Maryland, 2017; Neurology Grand Rounds, Rhode Island Hospital, 2017; University of Connecticut, 2019.

Read papers or presented posters at: Acoustical Society of America, (1975, 1976, 1977, 1978, 1981, 1982, 1987, 1988 (3), 1994; 2006 (poster), 2011 (poster); Academy of Aphasia (1975, 1977, 1979, 1981 (2 given), 1982, 1983, 1984, 1985, 1993, 1995, 1997, 1998, 2001, 2004 (2), 2007, 2009 (read paper and poster); 2011 (read paper and poster), ; Cognitive Neuroscience Society 2003 (poster), 2004 (poster), 2005 (2 posters), 2006 (poster), 2008 (poster); Psychonomic Society 2006 (poster); Neurobiology of Language Conference 2010 (poster); Academy of Aphasia 2011; Acoustical Society of America (poster), 2012; Society for the Neurobiology of Language (2 posters), 2013; Acoustical Society of America, 2014; Society for the Neurobiology of Language (4 posters), 2015; Cognitive Neuroscience Society, 2016.

***Service:***

***University:***

- Advisory Committee on Departmental Course Offerings, Secretary, 1971-73; Phi Beta Kappa Committee, 1974; Coordinator, Psycholinguistics Program, 1976-78; Chairman, Linguistics Department, 1978-81; Coordinator, Cognitive Sciences Concentration, 1980-82; Chairman, Modern Language Board, 1980-81; Member, Institutional Review Board, 1979-1985; Chairman, 1984-1985; Member, Medical Education Program Undergraduate Curriculum Committee, 1979-83; Fulbright Screening Committee, 1981; Wriston Fellowship Committee, 1981; Member, Search Committee, Dean of the Graduate School, 1982; Chairman, Task Force - Cognition/Languages/Computer Science/Applied Math/Mathematics, 1984-85; Executive Committee, Cognitive Sciences Center, 1980-1986; University Council on Student Affairs, member 1975-76, Chairman, 1976-77, 1983-1986; Member, Search Committee, Dean of the Faculty, 1986; Member, Campus Advisory Presidential Search Committee, 1987-88; Steering Committee and Faculty Fellow, Royce Scholars Program, 1996-1998; Faculty Coordinator, Steering Committee, New England Association Accreditation of Schools and Colleges, Brown University re-accreditation, 1996-1998; Chair, Ad Hoc Committee on Sexual Misconduct, Spring 1997; Interim Provost and Executive Vice-President, 1-6/98; Chairman, Department of Cognitive and Linguistic Sciences, 1986-87, 1997 Sem.1, 1998; Chair, Provost, Search Committee, 1999; Member, Search Committee, Dean of the Medical School, 2003; Executive Committee, Brain Sciences Program, 1998-2000; 2002-; Neuroscience Graduate Program Steering Committee, 2005-2008; Conflict of Interest Review Board, 2005-2009; Task Force on Undergraduate Education, 2007-2008; Ad hoc Committee on the Review of Tenure, 2009-2011; Knowledge District Committee, 2011-2012; President's Science Advisory Council, 2009-2012; Academic Forums and Events

sub-committee for Brown's 250th Anniversary celebration, 2013; Member, Search Committee, Dean of the College, Brown University, 2013-2014; Brown Young Scholars Conference, mentor/advisor – Fall 2015.

**Professional:**

Advisory Editor, *Contemporary Psychology*, 1981-1983; Editorial Board, *Cognition*, 1982-90; Editorial Board, *Applied Psycholinguistics*, 1984-89; Editorial Board, Preprint Collection in Speech Communication, Vol.2, Speech perception, Acoustical Society of America, 1990; Editorial Board, *Brain and Language*, 1978-83, 1995-1997; 1998-2005; Senior Consulting Editor, *Brain and Language*, 2006-.

Member, Communicative Sciences Study Section, National Institute of Neurological and Communication Diseases and Strokes, NIH, 1976-1980; Member 1978, Language Disorders panel and contributor to Behavioral Neurology Panel, National Institute of Neurological and Communication Diseases and Strokes (Charged to prepare a state-of-the-art report for Congress); Executive Committee, Committee on Hearing, Bioacoustics, Biomechanics, National Research Council, 1980-1982; Member, Scientific Programs Advisory Committee, National Institute of Neurological and Communication Diseases and Strokes, National Institutes of Health 1982-84; Member, National Science Foundation, Linguistics Panel, 1983-1986; Panel member, An Evaluation of Research Opportunities and Needs of the NINCDS in the Neurological and Communicative Sciences, prepared for the Senate Committee on Appropriations, 1983; ad hoc reviewer, Communicative Sciences Study Section, 1981, ad hoc site-visit team, NIH, 1982; co-chair, Language Panel and member, Task Force to Develop National Strategic Research Plan, National Institute on Deafness and Other Communication Disorders, NIH, 1989; Advisory Council, National Institute of Deafness and other Communication Disorders, 1989-93; Member of Program Committee, Academy of Aphasia, 1977-1978; Speech Technical Committee, Acoustical Society of America, 1981-1984; Nominating Committee, Acoustical Society of America, 1981-1982; Program Committee, Chair, Academy of Aphasia, 1985-87; National Task Force on the NIH Strategic Plan, Committee on Basic Research - Biology, 1992; Science Advisory Committee on Cognitive Neuroscience, McDonnell-Pew Foundations, 1989-1999 ; Board of Governors, Academy of Aphasia, 1978-1981, 1995-1998 ; Educational Policy Committee, Rhode Island School of Design, 1994-1996; Search Committee, Director of the National Institute of Deafness and Other Communication Disorders, NIH, 1997; Behavioral and Social Sciences Review Integration Meeting to reconfigure study sections, 5/98; NIH Study Section, Chair, Special Emphasis Panel and BBBP3 Study section 1998; affiliate of Linguistic Society of America to Section on Neuroscience, American Association for the Advancement of Science. 1999-2002; Chair-Elect, Chair, Steering Committee, Linguistics and Language Sciences (Section Z), AAAS, 1999-2001; External Advisory Board, Center for the Neural Basis of Cognition (Carnegie Mellon and University of Pittsburgh), 1999-2004; BBBP3 Study Section, NIH, 2001-2003; Advisory Committee for the Social, Behavioral, and Economic Sciences (SBE) Directorate, NSF, 2001-2004; Academy of Aphasia, Membership Committee, 2006-2008; Chair, 2007; Strategic Planning Scientific Advisory Committee, Haskins Laboratories, 2009-; Advisory to Programs Committee, Linguistic Society of America, 2008; Distinguished editorial panel, NIH Challenge Grants in Health and Science Research, 2009; NIDCD Training Workshop, panel member, 2012; Chair, Special Emphasis Panel, NIDCD, 2012, 2013; , Science Advisory Board, Centre for Research on Brain, Language and Music, McGill University, 2012-; Science Advisory Board, Center for the Neurobiology of Language Recovery, Northwestern University, 2013-2015; Advisory Committee, University of Connecticut NSF IGERT (Integrative Graduate Education and Research Traineeship) award, "Language Plasticity - Genes, Brain, Cognition and Computation." 2012-2017; Member, NIH, Communications Disorders Review Committee (CDRC), 2013-2016; Member, Board of Directors, Haskins Laboratories, 2012-, Chair, Executive Committee, 2014-2015; Chair of the Board, 2016-; Advisory Panel, University of Connecticut NSF IGERT (Integrative Graduate Education and Research Traineeship) award, "Science of learning, from neurobiology to real-world application: a problem-based approach", 2018-.

Academy of Aphasia, member; Linguistic Society of America, member, fellow; American Association for the Advancement of Science; Society for Cognitive Neuroscience, member; Acoustical Society of America, member, fellow; American Academy of Arts and Sciences member, fellow; American Philosophical Society, member, fellow; member fellow, American Association for the Advancement of Science.

Outside reviewer of grants for NSF, NIH, and NICHD; outside reviewer of manuscripts submitted to M.I.T. Press, Holt Rinehart & Winston, Scientific American, Singular Press, Blackwell Press and journals such as *Brain and Language*, *Perception and Psychophysics*, *Science*, *Journal of the Acoustical Society of America*, *Journal of Applied Psycholinguistics*, *Language and Speech*, *Neuropsychologia*, *Cortex*, *Behavioral and Brain Sciences*, *Journal of Speech and Hearing Research*, *Journal of Cognitive Neuroscience*, *Psychological Sciences*, *Cerebral*

*Cortex, Cognitive Brain Research, Proceedings of the National Academy of Science, Current Directions in Psychological Science.*

**Community:**

Member, Lifespan Board, 2001-2002.

Member, Community Roundtable of the Rhode Island Cancer Council, 2003-2004.

Board of Trustees, University of Rochester, 2003-2011; search committee for president of University of Rochester, 2004; search committee for provost of University of Rochester, 2006.

Trustee of the Barrington Public Library, 2003-2009; secretary 2004-2006; chair, 2006-2009.

Volunteer, Nayatt Public School, kindergarten and second grade, 2012-.

**Research Grants:**

Bio-medical Sciences Support Grant, Brown University, 1971-1972; 1985-86.

National Institutes of Health, small grant for research on laterality, 1973.

National Institutes of Health, NICHD, co-principal investigator, the acquisition of speech in children, 1975-1978; 1978-1981.

National Institutes of Health, NINCDS, co-principal investigator, New Measures of Aphasic Symptom Variables, 1981-1984.

National Institutes of Health, NIDCD, Research Associate, The Aphasia Research Center, 1975-1980; 1980-1985; 1985-1990; 1990-1995; 1995-2000, 2001-2006, 2006-2011.

National Institutes of Health, NIDCD, principal investigator, Acoustic Invariance in Speech, 1979-1982; 1982-1986; 1986-1991; 1991-1995; 1995-98; 1998-2003.

Dana Foundation, principal investigator, Neural Systems Underlying Speech Perception, 2003-2005.

National Science Foundation, co-principal investigator, Major Research Infrastructure Program, awarded \$2 million for purchase of a 3T magnet, 2005.

National Science Foundation, BCS, principal investigator, Workshop on Mind and Brain: Strategies and Directions for Future Research, 7/1/06-12/31/06, \$34,452 total.

National Institutes of Health, NIDCD, principal investigator, Language and Speech Processing in Aphasia, 1985-1992; 1992-1995; 1996-2001; 2001-2006; 2006-2011 (total award: \$1,062,500).

National Institutes of Health, NIDCD, principal investigator, Neural Basis of Lexical and Speech Processing, 2004-2009; 2009-2014 (total award: \$1,380,128).

Research Seed Funds, Brown University, principle investigator, The Role of the Right Hemisphere in Speech and Lexical Processing, 2013-2014, (total award \$99,000).

Program in Clinical Science Research, Dana Foundation, principal investigator, Translational Research on Speech and Language which may Lead to Improved Post-Stroke Aphasia Therapy, 2012-2015, no cost extension 2016 (total award \$100,000).

National Institutes of Health, NIDCD, principle investigator, R21 R21DC013100, A Pilot Therapy Program to Improve Phonetic Production in Aphasia, 2013-2015, no cost extension 2016 (total award \$325,000).

National Institutes of Health –NIH, (PI Jerome Sanes); Blumstein role: deputy director and mentor, COBRE Center for Central Nervous System Function, 2013-2016 (total award \$10,916,075).

R01 DC13064 Myers (PI; University of Connecticut); subcontract (Blumstein), The Role of Frontal and Temporal Brain Areas in the Perception of Phonetic Category Structure, 2014-2017, (subcontract award \$359,500)



**Courses Taught:**

Introduction to Cognitive Science (CG1; CLPS0020)  
 Introduction to linguistics (for non-concentrators)(L11).  
 Introduction to psycholinguistics (L141).  
 Language Processing (CG141)  
 Syntactic and semantic processing (L142).  
 Syntactic theory and syntactic processing (L142).  
 Language and the brain (L148; CG148; CLPS1820).  
 Topics in Language Processing: Neuroimaging and Language (CG 184; CLPS1821).  
 Seminar in neurolinguistics (L253).  
 Seminar in speech perception (L253).  
 Research methods in speech perception (L253).  
 Phonetics and phonology (L121).  
 Introduction to phonological theory (L122).  
 Modes of Thought: The Brain and Language.  
 Group Independent Study: Semantic Processing.

**Teaching**

1992-93; 1990-91; 1988-89: CG 148 - Language and the Brain  
 1979-80: independent study (1); Graduate reading/research (3).  
 1980-81: independent study (1); Graduate reading/research (1).  
 1981-82: Graduate reading/research (4) Sem.I; (6) Sem.II; Independent studies (4) Sem. I; (4) Sem. II.  
 1982-83: reading/research (7) Sem.I and II; Post-doctoral research (1). 1983-84: reading/research (6)  
 1984-85: reading/research (2) 1985-86: reading/research (2); Independent study (1)  
 1986-87: reading/research (2); Independent study (1); Honors (2)  
 1987-88: reading/research (2); Honors (1)  
 1989-90: reading/research (1)  
 1990-91: Independent study (1)  
 1991-92: reading research (3); Honors (1); Post-doctoral research (1)  
 1992-93: reading/research (3); Honors (1); Post-doctoral research (1)  
 1993-94: reading/research (2).  
 1994-95: reading/research (1)  
 1995-96:reading/research (2); Honors (Neural Sciences) (1).  
 1996-97: CG141 - Language Processing; CG148 - Language and the Brain; CG 291 - Special Topics in Speech Processing; reading/research (3); Honors (Psychology) (1)  
 1997-98: CG1; Reading/Research (8)  
 1998-99: CG1; CG148; Reading Research (2); Honors (2)  
 1999-00: CG1; CG148; Reading Research (1); 2 PhD  
 2002-03: CG1; CG148; CG184; Reading Research (4); postdoctoral fellow (1); Honors (1)  
 2003-04: CG1; CG148; Reading Research (3); Independent studies (6); postdoctoral Fellow (1); Honors (3)  
 2004-05: CG1; CG148; Reading Research (2); Postdoctoral research (1)  
 2005-06: CG1; CG148; Reading Research (1); Postdoctoral research (1)  
 2006-07: CG1; CG184; Reading Research (2); Postdoctoral research (1); Honors (2)  
 2007-08: CG1; CG184; Reading Research (3); Postdoctoral research (1); Honors (2)  
 2008-09: CG1; CG148; Reading Research (3); Postdoctoral research (1); Honors (4)  
 2009-2010: CLPS0020, CG184; Reading Research (2), PhDs (2); Postdoctoral Research (2); Honors (2)  
 2010-2011- CLPS0020, CLPS1840; Reading Research (2), PhDs (1), Postdoctoral Research (2); Honors (1)  
 2011-2012- CLPS0020, CLPS1820, 1821, Reading Research (2), PhD (2), Postdoctoral Research (1), Honors (2)  
 2012-2013 – on sabbatical  
 2013 –2014 CLPS0020 Intro to Cognitive Science (183); CLPS1820, Language and the Brain (27), Reading Research (1), PhD (2); Postdoctoral Research (1), Honors (1)  
 2014 – 2015 CLPS0020 Intro to Cog Sci (159); CLPS1821Neuroimaging and Language (13); PhD (2), Postdoctoral Research (1),  
 2015-2016: CLPS0020 Intro to Cognitive Science (107); CLPS1820 Language and the Brain (22); Reading/ Research Honors (2); PhD (2), Postdoctoral Research (1)

***Doctoral Dissertations Directed:***

Pierce, Sandra	1977	A comparison of phonological development in autistic, mentally retarded, and normal children
Robert Buhr	1978	Naming deficits in anomia and aphasia : implications for models of semantic and lexical organization
Patricia Keating	1980	A Phonetic Study of Voicing Contrast in Polish
Molly Mack	1983	Psycholinguistic Consequences of Early Bilingualism
Jack Ryalls	1984	An Acoustic Investigation of Vowel Production in Aphasia
Carol Ringo (Chapin)	1985	The nature of change in phonological development: evidence from the acquisition of (s) + stop and /s/ + nasal clusters
Phil Shinn	1985	A Cross Language Investigation of Stop, Affricate and Fricative Manner of Articulation
Allard Jongman	1986	Naturalness in Phonetics: A Study of Context-Dependency
Shari Baum	1986	Syntactic Processing in Aphasia
Susan Behrens	1986	The Role of the Right Hemisphere in the Production of Linguistic Prosody
Lori Van Houten	1986	Playing house: adolescent mothers' communicative strategies with their language learning children
William Katz	1987	An Acoustic and Perceptual Investigation of Anticipatory Coarticulation in Aphasia
Martha Burton	1989	A Study of Lexical Processing: Associative, Mediated and Rhyme Priming Effects
Amy Rakowsky (Neeman)	1989	A Study of Intra-sentential Code Switching in Bilinguals and Second Language Learners
Robin Waldstein	1989	Acoustic Characteristics of the Speech of the Postlingually Deafened
Kathleen Kurowski	1990	A Cross Linguistic Analysis of Nasal Consonants: Invariant Properties for Place of Articulation
Jean Andruski	1995	The Effects of Subphonetic Differences on Lexical Access
Gary Byma	1995	The Contribution of Linguistic Information Systems during Filler-Gap Processing
Jennifer Aydelott Utman	1997	Effects of Subphonetic Differences on Lexical Access in Neurologically Intact Adults and Patients with Broca's Aphasia
Rachel Kessinger	1998	The Mapping from Sound Structure to the Lexicon: A Study of Normal and Aphasic Speech
Chao Yang Lee	2000	Lexical Tone in Spoken Word Recognition: A View from Mandarin Chinese
Hiroko Nakano	2001	Sentence Processing in Aphasia: Evidence for Deficits in Incremental Combinatorial Thematics
Eiling Yee	2005	The Time Course of Lexical Activation During Spoken Word Recognition: Evidence from Unimpaired and Aphasic Individuals
Emily Myers	2005	Neural correlates of phonetic category structure: An fMRI investigation
Jong Yoon Myung	2006	Perceptually-based semantic representation of concrete objects
Co-advisor Katherine White	2006	Developmental continuity in word representation: Infants and adults show parallel effects of phonological mismatch and word familiarity
Giulia Righi	2009	The Neural Basis of Competition in Auditory Word Recognition and Spoken Word Production
Andrew Wallace	2010	The auditory representation in time and frequency in vowel quality perception
Megan Reilly	2015	The Neural Basis of Semantic Categories and Features
Jie Ren	2016	From Features to Words: A Study of Developmental Continuity
Neal Fox	2016	Top-Down Effects on Speech Perception: An Integrated Computational and Behavioral Approach

***Faculty Advising:***

Freshman Counselor, 1972-76; Associate Resident Fellow, 1972-76; Concentration Advisor in Linguistics, 1972-78; Psycholinguistics Concentration Advisor, 1976-1978; Graduate Representative in Linguistics, 1981-82; Freshman Advisor, 1981-1982; Graduate Advisor in Linguistics, 1984-85; faculty mentor to Luiz Pessoa, Assistant Professor in Psychology, RI-Brain Pilot Grant Program 2004; Concentration Advisor in Cognitive Science, 1984-1986; Graduate Representative, Department of Cognitive and Linguistic Sciences, 2003-2005; CAP (Freshman) Advisor 1997-2000, 2002-2015; Concentration advisor in Linguistics, 2011-2012; Sophomore advisor 1998-2000, 2003; 2008-2016; Concentration advisor in Cognitive Neuroscience, 1997-2000, 2002- 2015.

***Research Interests:***

The Neurobiology of Language; Speech and Lexical Processing; Neurolinguistics; Psycholinguistics

***Research in Progress:***

effects of contextual information sources on processing degraded speech  
mapping of sound structure to the lexicon  
speech and lexical processing deficits in aphasia  
neural basis of lexical and speech processing  
translational approaches to phonetic production in aphasia

2/2020