

CURRICULUM VITAE

Argye Elizabeth Hillis, MD, MA

Date: March 6, 2006

DEMOGRAPHIC INFORMATION

Current Appointment:

Associate Professor, Department of Neurology, Johns Hopkins University School of Medicine
Joint appointment in Department of Physical Medicine and Rehabilitation
Joint appointment in Cognitive Science, Johns Hopkins University

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EDUCATION AND TRAINING:

9/77- 5/81 B.A. in Speech Pathology/Audiology
The George Washington University, Washington, D.C.

5/81-5/82 M.A. in Speech Pathology
The George Washington University, Washington, D.C.

9/91-5/95 M.D.
Johns Hopkins University School of Medicine, Baltimore, MD

6/95 - 6/96 Resident (PGY 1) in Internal Medicine
Greater Baltimore Medical Center, Baltimore, Maryland

6/96 - 6/99 Resident in Neurology
Johns Hopkins University School of Medicine, Baltimore, Maryland

10/98 - 6/99 Fellow-by-Courtesy; Dept. of Cognitive Science
Johns Hopkins University, Baltimore, Maryland

PROFESSIONAL EXPERIENCE:

6/82-3/85 Speech-Language Pathologist
The Good Samaritan Hospital of Maryland, Baltimore, Maryland

3/85-8/89 Director, Speech-Language Pathology
Medical Rehabilitation Center of Maryland, Baltimore, Maryland

Spring 1988 Instructor, Speech-Language Pathology
Loyola College of Maryland, Baltimore, Maryland

8/89-8/91 Director, Neurological Rehabilitation and Acting Center Administrator, 1990
Medical Rehabilitation Center of Maryland, Baltimore, Maryland

12/91-6/95 Associate Research Scientist, Cognitive Neuropsychology Laboratory
Johns Hopkins University, Dept. of Cognitive Science, Baltimore, Maryland

7/99-10/03 Assistant Professor; Department of Neurology
Johns Hopkins University School of Medicine, Baltimore, Maryland
Joint appointment in Cognitive Science; School of Arts and Sciences

11/03-present	Associate Professor; Department of Neurology Johns Hopkins University School of Medicine; Joint appointment in Cognitive Science, Johns Hopkins University
11/04 to present	Joint appointment in Physical Medicine and Rehabilitation

RESEARCH ACTIVITIES:

Peer-reviewed Original Research Articles

1. Siebens H, **Hillis Trupe AE**, Cook F, Anshen S, Hanauer R, Oster G. Correlates and consequences of eating dependency in institutionalized elderly. J Am Geriatric Soc. 1986;34, 192-198.
2. Caramazza A, **Hillis AE**. The disruption of sentence production: Some dissociations. Brain and Language. 1989;36, 625-650.
3. **Hillis AE** (1989). Efficacy and generalization of treatment for aphasic naming errors. Arch Phys Med Rehab. 70, 632-636.
4. **Hillis AE**, Caramazza A. The graphemic buffer and attentional mechanisms. Brain and Language. 1989;36, 208-235.
5. Badecker W, **Hillis AE**, Caramazza A. Lexical morphology and its role in the writing process: Evidence from a case of acquired dysgraphia. Cognition. 1990;35, 205-244.
6. Caramazza A, **Hillis AE**. Where do semantic errors come from? Cortex. 1990;26, 95-122.
7. Caramazza A, **Hillis AE**. Spatial representation of words in the brain implied by studies of a unilateral neglect patient. Nature. 1990;346, 267-269.
8. Caramazza A, **Hillis AE**. Levels of representation, coordinate frames, and unilateral neglect. Cognitive Neuropsychology. 1990;7, 391-445.
9. Caramazza A, **Hillis AE**, Rapp BC, Romani C. The multiple semantics hypothesis: Multiple confusions? Cognitive Neuropsychology. 1990; 7, 161-190.
10. **Hillis AE**, Rapp BC, Romani C, Caramazza A. Selective impairment of semantics in lexical processing. Cognitive Neuropsychology. 1990;7, 191-244.
11. **Hillis AE**, Caramazza A. Mechanisms for accessing lexical representations for output: Evidence from a category-specific semantic deficit. Brain and Language. 1991; 40, 106-144.
12. Caramazza A, **Hillis AE**. Lexical organization of nouns and verbs in the brain. Nature. 1991;349,788-790
13. **Hillis AE**, Caramazza A. Category-specific naming and comprehension impairment: A double dissociation. Brain. 1991;114, 2081-2094.
14. **Hillis AE**, Caramazza A. Spatially-specific deficit to stimulus-centered letter shape representations in a case of "unilateral neglect". Neuropsychologia. 1991;29, 1223-1240.
15. **Hillis AE**. Facilitating written language. Clinics in Communication Disorders. 1992;2, 19-33.
16. **Hillis AE**, Caramazza A. Not everything is the same: some things are worse than others. Brain and Language. 1992;43, 519-527.
17. **Hillis AE**. The role of models of language processing in rehabilitation of language impairments. Aphasiology. 1993;7, 5-26.
18. Rapp BC, **Hillis AE**, Caramazza A. The role of representations in cognitive theory: More on multiple semantics and the agnosias. Cognitive Neuropsychology. 1993;10, 235-249.
19. Caramazza A, **Hillis AE**. For a theory of remediation of cognitive deficits. Neuropsychological Rehabilitation. 1993;3, 217-234.
20. **Hillis AE**, Rapp BC, Caramazza A. Constraining claims about theories of semantic memory: More on unitary vs. multiple semantics. Cognitive Neuropsychology. 1995;12, 175-186.
21. **Hillis AE**, Caramazza A. Converging evidence for the interaction of semantic and phonological information in accessing lexical information for spoken output. Cognitive Neuropsychology. 1995;12, 187-227.
22. **Hillis AE**, Caramazza A. Spatially-specific deficits in processing graphemic representations in reading and writing. Brain and Language. 1995;48, 263-308.
23. **Hillis AE**, Caramazza A. Cognitive and neural mechanisms underlying visual and semantic processing. J Cognitive Neurosci. 1995;7, 457-478.
24. **Hillis AE**, Caramazza A. The representation of grammatical categories of words in the brain. J Cognitive Neurosci. 1995;7, 396-407.
25. **Hillis AE**, Benzing L, Epstein C, Lyketsos C. Cognitive gains and losses of patients with Alzheimer's Disease during frequent practice. Am J Speech Language Pathology. 1995; 4, 150-156.
26. **Hillis AE**, Caramazza A. A framework for interpreting distinct patterns of hemispatial neglect. Neurocase. 1995;1, 189-207.

27. **Hillis AE**, Caramazza A. The compositionality of lexical-semantic representations: clues from semantic errors in object naming. Memory, 1995;3, 333-358.
28. **Hillis AE**, Lenz FA, Zihl TA, Dougherty PM, Eckel TS, Jackson K. Hemispatial somatosensory and motor extinction after stereotactic thalamic lesions. Neurocase, 1998;4, 21-34.
29. **Hillis AE**. Treatment of naming disorders: new issues regarding old therapies. J Int Neuropsychological Soc, 1998;4, 648-660.
30. **Hillis AE**, Rapp B, Benzing L, Caramazza A. Dissociable coordinate frames of unilateral spatial neglect: viewer-centered neglect. Brain and Cognition, 1998; 37, 491-526.
31. **Hillis AE**, Rapp BC. Dissociable reference frames of neglect: A comment on Farah, Brunn, Wallace, Wong, Carpenter (1990). Neuropsychologia, 1998; 36, 1257-62.
32. **Hillis AE**, Mordkoff T, Caramazza A. Mechanisms of spatial attention revealed by hemispatial neglect. Cortex, 1999; 35, 433-442.
33. **Hillis AE**, Rapp BC, Caramazza A. When a rose is a rose in speaking but a tulip in writing. 1999; Cortex, 35, 337-356.
34. **Hillis AE**, Selnes O. Cases of aphasia or neglect due to Creutzfeldt-Jakob Disease. Aphasiology, 1999;13, 743-754
35. **Hillis AE**, Boatman D, Hart J, Gordon B. Making sense out of jargon: a neurolinguistic and computational account of jargon aphasia. Neurology, 1999; 53, 1813-1824.
36. **Hillis AE**, Anderson NB, Sampath P, Rigamonti D. Cognitive impairments after surgical repair of ruptured and unruptured aneurysms. J Neurol, Neurosurg, Psych, 2000;69, 608-615.
37. **Hillis AE**, Wang P, Beauchamp N, Barker P, Gordon B, Wityk R. Magnetic resonance perfusion imaging: a new method for localizing regions of brain dysfunction associated with specific lexical impairments? Aphasiology, 2000;14, 471-483.
38. **Hillis AE**, Barker P, Beauchamp N, Gordon B, Wityk R. MR perfusion imaging reveals regions of hypoperfusion associated with aphasia and neglect. Neurology, 2000;55, 782-788.
39. Selnes O, **Hillis AE**. Patient Tan Revisited: A case of atypical Global aphasia? J History Neurosciences, 2000; 9, 233-237.
40. **Hillis AE**, Barker P, Beauchamp N, Winters B, Mirski M, Wityk R. Restoring blood pressure reperfused Wernicke's area and improved language. Neurology, 2001;56, 670-672.
41. Worrall B, Farace E, **Hillis AE**, Hutson RK, Saver J, Wityk R, Johnston KC, Haley EC. Correlation of aphasia and /or neglect with cortical infarction in a subpopulation of RANTTAS. J Cerebrovascular Disease, 2001;11, 257-264.
42. Wityk RJ, Goldsborough MA, **Hillis AE**, Beauchamp N, Barker P, Borowicz L, McKhann G. Diffusion- and perfusion-weighted brain magnetic resonance imaging in patients with neurologic complications after cardiac surgery. Arch Neurol, 2001;58, 571-576.
43. **Hillis AE**, Kane A, Barker P, Beauchamp N, Wityk R. Neural substrates of the cognitive processes underlying reading: evidence from Magnetic Resonance Perfusion Imaging in hyperacute stroke. Aphasiology, 2001;15, 919-931.
44. **Hillis AE**, Wityk RJ, Tuffiash E, Beauchamp NJ, Jacobs MA, Barker PB, Selnes OA. Hypoperfusion of Wernicke's area predicts severity of semantic deficit in acute stroke. Ann Neurol, 2001;50, 561-566.
45. **Hillis AE**, Kane A, Tuffiash E, Ulatowski JA, Barker P, Beauchamp N, Wityk R. Reperfusion of specific brain regions by raising blood pressure restores selective language functions in subacute stroke. Brain and Language, 2002;79, 495-510.
46. **Hillis AE**, Wityk RJ, Barker PB, Beauchamp NJ, Gailloud P, Murphy K, Cooper O, Metter EJ. Subcortical aphasia and neglect in acute stroke: the role of cortical hypoperfusion. Brain, 2002;125, 1094-1104.
47. **Hillis AE**, Kane A, Tuffiash E, Beauchamp N, Barker PB, Jacobs MA, Wityk R. Neural substrates of the cognitive processes underlying spelling: Evidence from MR diffusion and perfusion imaging. Aphasiology, 2002;16, 425-438.
48. **Hillis AE** Heidler J. Mechanisms of early aphasia recovery: evidence from MR perfusion imaging. Aphasiology, 2002;16, 885-896.
49. Selnes OA, van Zijl P, Barker PB, **Hillis AE**, Mori S. MR Diffusion Tensor Imaging documented Arcuate Fasciculus lesion in a patient with normal repetition performance. Aphasiology, 2002;16, 897-902.
50. Gailloud P, **Hillis AE**, Perler B, Murphy KJ. . Vertebrobasilar stroke as late complication of a Blalock-Taussig shunt. Ann Neurol, 2002;52, 231-234.
51. **Hillis AE**, Tuffiash E, Wityk RJ, Barker PB. Regions of neural dysfunction associated with impaired naming of actions and objects in acute stroke. Cognitive Neuropsychology, 2002;19, 523-534.

52. **Hillis AE**, Tuffiash E, Caramazza A. Modality specific deterioration in oral naming of verbs. J Cognitive Neurosci, 2002;14, 1099-1108.
53. Restrepo L, Wityk RJ, Grega M, Borowicz L, Barker PB, Jacobs MA, Beauchamp NJ, **Hillis AE**, McKhann GM. Diffusion and perfusion weighted magnetic resonance imaging of the brain before and after coronary artery bypass grafting surgery. Stroke, 2002;33, 2909-2915.
54. Wityk R, **Hillis AE**, Beauchamp N, Barker PB, Rigamonti D. Perfusion-weighted MRI in adult moyamoya syndrome: characteristic patterns and change after surgical intervention: case report. Neurosurgery, 2002;51, 1499-1506.
55. **Hillis AE**, Wityk R, Barker PB, Caramazza A. Neural regions essential for writing verbs. Nature Neuroscience, 2003;6, 19-20.
56. **Hillis AE**, Ulatowski JA, Barker PB, Torbey M, Ziai W, Beauchamp N, Oh S, Wityk R. A pilot randomized trial of induced blood pressure elevation: Effects on function and focal perfusion in acute and subacute stroke. Cerebrovascular Diseases, 2003;16: 236-246.
57. Tuffiash E, Tamargo R, **Hillis AE**. Craniotomy for repair of unruptured aneurysms does not result in cognitive dysfunction. Stroke, 2003;34, 2195-2199.
58. **Hillis AE**, Wityk RJ, Barker PB, Ulatowski JA, Jacobs MA. Change in perfusion in acute nondominant hemisphere stroke may be better estimated by tests of hemispatial neglect than by the NIHSS, Stroke, 2003;34, 2392-2398.
59. **Hillis AE**, Wityk RJ, Ulatowski JA, Beauchamp N, Jacobs M, Barker PB. MR perfusion weighted imaging as a marker of treatment response in acute and subacute stroke. Neuroradiology, 2004;46, 31-39.
60. **Hillis AE**, Oh S, Ken L. Deterioration of naming nouns versus verbs in primary progressive aphasia. Ann Neurol, 2004;55, 268-275.
61. Breese EL, **Hillis AE**. Auditory comprehension: is multiple choice really good enough? Brain and Language, 2004;89, 3-8.
62. **Hillis AE**, Barker PB, Wityk RJ, Aldrich E, Restrepo L, Breese EL, Work M. Variability in subcortical aphasia is due to variable sites of cortical hypoperfusion. Brain and Language, 2004;89, 524-530.
63. **Hillis AE**, Work M, Breese EL, Barker PB, Jacobs MA, Maurer K. Re-examining the brain regions crucial for orchestrating speech articulation. Brain, 2004;127, 1479-1487.
64. **Hillis AE**, Chang S, Breese E. The crucial role of posterior frontal regions in modality specific components of the spelling process. Neurocase, 2004;10, 157-87.
65. Duinkerke A, Williams MA, Rigamonti D, **Hillis AE** Cognitive recovery in idiopathic normal pressure hydrocephalus. Cognitive Behav Neurol, 2004;17, 179-184.
66. **Hillis AE**, Newhart M, Heidler J, Barker PB, Herskovits E, Degaonkar M. The roles of the “visual word form area” in reading. NeuroImage, 2005;24, 548-559.
67. Hussain NS, Rumbaugh J, Kerr D, Nath A, **Hillis AE**. The effects of prednisone and plasma exchange on cognitive impairment in Hashimoto’s encephalopathy. Neurology, 2005; 64, 165-166.
68. Reineck L, Agarwal S, **Hillis AE**. The “diffusion-clinical mismatch” predicts early language recovery in acute stroke. Neurology, 2005;64, 828-833.
69. **Hillis AE**, Newhart M, Heidler J, Barker PB, Degaonkar M. Anatomy of spatial attention: insights from perfusion imaging and hemispatial neglect in acute stroke. J Neurosci, 2005;25, 3161-3167.
70. **Hillis AE**, Newhart M, Heidler J, Marsh EB, Barker PB, Dagaonkar M. The neglected role of the right hemisphere in spatial representation of words for reading. Aphasiology, 2005;19, 225-238.
71. Charles R, **Hillis AE**. Posterior Cortical Atrophy: clinical presentation and cognitive deficits compared to Alzheimer’s Disease. Behavioural Neurology, 2005;16, 15-23.
72. Marsh EB, **Hillis AE**. Cognitive and neural mechanisms underlying reading and naming: evidence from letter-by-letter reading and optic aphasia. Neurocase, 2005;11, 325-318.
73. Thomas G, McGirt MJ, Woodworth G, Heidler J, Rigamonti D, **Hillis AE**, Williams MA. Baseline neuropsychological profile and cognitive response to CSF shunting for idiopathic normal pressure hydrocephalus. Dementia and Geriatric Cognitive Disorders. 2005;20, 163-8.
74. Huang H, Zhang J, Jiang H, Wakana S, Poetscher L, Miller MI, van Zijl PC, **Hillis AE**, Wityk R, Mori S. DTI tractography based parcellation of white matter: application to the mid-sagittal morphology of corpus callosum. Neuroimage, 2005; 26,195-205.
75. Chang S, Agarwal S, Williams MA, Rigamonti D, **Hillis AE**. Demographic factors influence cognitive recovery after shunt for normal pressure hydrocephalus. The Neurologist, 2006;12, 39-42.

Original Research Articles In Press

1. **Hillis AE**, Heidler-Gary J, Newhart M, Chang S, Ken L , Bak T. (in press). Naming and comprehension in primary progressive aphasia: the influence of grammatical word class. Aphasiology.
2. Bilello M, Lao Z, Krejza J, **Hillis AE**, Herskovits E.H. (in press). Statistical atlas of acute stroke from MR diffusion-weighted-images of the brain. Neuroinformatics.
3. Marsh EB, **Hillis AE**. (in press) Dissociation between egocentric and allocentric visuospatial and tactile neglect in acute stroke. Cortex.

Invited Review Articles

1. Gottesman RF, Komotar R, **Hillis AE**. Neurologic aspects of traumatic brain injury. Int Rev Psych, 2003;15, 302-309.
2. Mesulam MM, Grossman M, **Hillis A**, Kertesz A, Weintraub S. The core and halo of primary progressive aphasia and semantic dementia. Ann Neurol. 2003; 54,Suppl 5, S11-14.
3. **Hillis AE**. Systemic blood pressure and stroke outcome and recurrence. Current Atherosclerosis Reports, 2004;6, 274-280. Reprinted in: Current Hypertension Reports, 2005;7, 72-78
4. **Hillis AE**. What can acute aphasia tell us about the brain? Jap J Neuropsychol, 2005;21, 2-17. (published in English and Japanese).
5. **Hillis AE**. Stages and mechanisms of recovery from aphasia. Jap J Neuropsychol, 2005;21, 35-43 (published in English and Japanese).
6. **Hillis AE**, Heidler J. Contributions and limitations of the “Cognitive neuropsychological approach” to treatment: illustrations from studies of reading and spelling therapy. Aphasiology, 2005;19, 985-993.
7. **Hillis AE**. Brain/language relationships identified with diffusion and perfusion MRI: clinical applications in neurology and neurosurgery. Proc NY Acad Sci, 2005;1064, 149-161.
8. **Hillis AE**. Rebalancing parietal activation underlies resolution of hemispatial neglect after right frontal stroke. Future Neurology, 2006;1, 25-30.

Invited Review Articles: In press

1. Jordan LC, **Hillis AE**. (in press). Aphasia and right hemisphere syndromes in stroke. Current Neurology and Neuroscience Reports.
2. **Hillis AE**. (in press). Pharmacological, surgical, and neurovascular interventions to augment acute aphasia recovery. Am J Phys Med Rehab.
3. **Hillis AE** (in press). Rehabilitation of unilateral spatial neglect: new insights from magnetic resonance perfusion imaging. Archives of Physical Medicine and Rehabilitation.
4. **Hillis AE** (in press). The neurobiology of hemispatial neglect. The Neuroscientist.
5. Marsh EB, **Hillis AE** (in press). Recovery from aphasia following brain injury: the role of reorganization. Progress in Brain Research.

EXTRAMURAL SPONSORSHIP

Current:

- | | |
|-----------------|---|
| 7/1/02- 6/30/07 | “Neural Basis for Lexical Processes in Hyperacute Stroke”
RO1 DC 5375
NIH/NIDCD
\$1,411,427 (total direct cost); Current annual direct cost: \$250,025
Role: PI (currently 50% effort; previously 70% effort) |
| 6/1/03-5/30/07 | “Induced Hypertension for Acute Ischemic Stroke”
R01 NS42607-01
NIH/NINDS
\$948,138 (total direct costs); Current annual direct cost: \$316,046
PI: R. Wityk
Role: Investigator (currently 0% effort) |
| 8/1/03-7/31/06 | “Neurological Predictors of Aphasia Recovery”
R03 DC005915
NIH/ NIDCD
\$289,000 (total direct costs)
PI: J. Fridriksson |

Role: Consultant (0% effort)

6/1/04 – 5/30/09 “Neuroimaging the Treatment and Recovery of Written Language”
 RO1 DC006740
 NIH/NIDCD
 PI: B. Rapp
 \$2,112,435 (total direct costs); Current annual direct cost: \$422,487
 Role: consultant (4% effort)

7/1/04 – 6/30/07 “Development of a Diffusion- Clinical Perfusion Mismatch Scale to Guide Management in Ischemic Stroke”
 K12 RR17627 (Institutional K12)
 NIH
 \$3,357,854 (total direct costs); Current direct costs: \$863,421
 Project PI: R. Gottesman (Program PI: F. Adkinson)
 Role: Mentor (2% effort)

7/1/04 – 6/30/08 Neural Basis of Unilateral Spatial Neglect
 RO1 NS047691
 NIH/NINDS
 \$1,674,518 (total direct cost); Current annual direct cost: \$323,196;
 Role: PI (15% effort)

5/1/05-3/28/10 “The Biology of Human Cortical Pain-related Activity”
 R01 NS38493
 NIH/NINDS
 \$
 PI: F. Lenz
 Role: Co-Investigator (0% effort)

7/1/05- 6/30/08 “Phonological Processing Impairments after Acute Stroke in Children and Young Adults”
 K12 RR17627 (Institutional K12)
 NIH
 \$3,357,854 (total direct costs); Current direct costs: \$863,421
 Project PI: L. Jordan (Program PI: F. Adkinson)
 Role: Mentor (0% effort this year)

7/1/05- 6/30/09 “Electrocorticographic Studies of Human Cognition”
 R01 NS40596
 NIH/ NINDS
 \$925,000 (total direct costs); Current annual direct costs: \$231,250
 PI: N. Crone
 Role: Investigator (5% effort)

8/15/05 - 5/31/09 “Lexical Processing in Word Production”
 RO1 DC006242-03
 NIH/NIDCD
 \$800,000 (total direct costs); Current annual direct cost: \$200,000
 PI: M. Miozzo
 Role: consultant (5% effort)

Pending:

Anosognosia for Hemiplegia: Neural Basis, Psychological Correlates, and Recovery.
 NIH K23
 \$ pending
 PI: K. Korte
 Role: Mentor (0% effort)
 Dissociating components of the attentional network in neglect.
 NIH ROI
 \$ pending
 PI: C. Rorden

Role: Consultant (0% effort)

Previous:

- 1/1/92-12/31/95 "Mechanisms Underlying Disorders of Naming"
R01 NS19330
NIH
\$214,528 (total direct costs); Current year direct cost: n/a
PI: A. Caramazza
Role: Co-Primary Investigator (25% effort)
- 1/01/93-6/39/93 "Deterioration of Specific Language Functions in Alzheimer's Disease,"
(Medical Student Research Grant)
Hartford Foundation/American Federation on Aging
\$2000 (total direct costs); Current year direct cost: n/a
PI: AE Hillis (Mentor: C. Lyketsos)
Role: Primary investigator (0% effort)
- 4/1/93 – 7/31/00 "Cognitive-Linguistic Mechanisms of Writing Disorders"
R01 NS22201
NIH/NINDS
\$249,416 (total direct costs); Current year direct cost: n/a
PI: A. Caramazza
Role: Consultant. (0% effort)
- 9/10/96-7/30/00 "Mechanisms of Neglect Dyslexia"
R01 NS34073
NIH/NINDS
\$225,000 (total direct costs); Current year direct cost: n/a
PI: A. Caramazza
Role: Consultant (0% effort)
- 9/25/98-7/31/03 "Warfarin vs. Aspirin for Symptomatic Intracranial Disease"
R01 NS36643
NIH/ NINDS
\$ Current year direct cost: n/a
PI: M.Chimowitz
Role: Co-investigator (0% effort)
- 7/1/99 - 6/30/01 "Identifying the neural basis of cognitive deficits in acute stroke with DWI and PWI"
National Stroke Association Research Fellowship
National Stroke Association
\$50,000 (total direct costs); Current year direct cost: n/a
Role: PI (0% effort)
- 7/1/99 - 6/30/02 "Neural Basis for Anomia and Neglect in Hyperacute Stroke"
K23: DC00174-01
NIH/NIDCD
\$300,000 (total direct costs); Current year direct cost: n/a
Role: PI (75% effort)
- 1999-2004 "Limb Apraxia: Neural Mechanisms in Left and Right Hemispheric Stroke"
VA Rehabilitation Research and Development Merit Review Grant E2121
Veteran's Administration
\$202,000 (total direct costs); Current year direct cost: n/a
PI: A. Foundas
Role: Consultant (0% effort)
- 9/5/99-5/31/04 "Intraoperative Hypothermia for Aneurysm Surgery Trial 2"
R01 NS038554
NIH/ NINDS
\$
PI: M.Todd
Role: Co-investigator (0% effort)

- 2/00-1/01 “Perioperative strokes detected by DWI MR in high risk patients undergoing CABG”
SmithKline-Beechum
\$100,000 (total direct costs); Current year direct cost: n/a
PI: G. McKhann
Role: Co-investigator (0% effort)
- 5/1/00-4/30/04 “Reperfusion Therapy in Acute and Subacute Stroke: Selection of Candidates Using Magnetic Resonance Perfusion and Diffusion Imaging”
Clinical Hypotheses in Neuroscience Program
Charles A. Dana Foundation
\$100,000 (total direct costs); Current year direct cost: n/a
Role: PI (20% effort)

EDUCATIONAL ACTIVITIES:

Educational Publications

Invited Editorials

1. **Hillis AE.** Does the right make it right? Questions about recovery of language after stroke. Ann Neurol, 2002;51, 537.
2. **Hillis AE.** Tailoring treatment for aphasia to the right time after stroke. Int J Therapy Rehab, 2005;8, 328-9.
3. **Hillis AE.** Can shift to the right be a good thing? Ann Neurol, 2005;58, 346.
4. **Hillis AE** Lessons from the heart: urgent evaluation and treatment of cerebral ischemia. Nature Clinical Practice Neurology, 2006;3, 117.
5. **Hillis AE** (in press). Progressive nonfluent aphasia versus semantic dementia: a matter of semantics. Neurology India.

Book Chapters, Monographs

1. **Hillis Trupe AE.** (Reliability of rating spontaneous speech in the Western Aphasia Battery: Implications for classification. In Brookshire RH (Ed.), Clinical Aphasiology, 1984. Minneapolis: BRK Publishers, 1984;55-69.
2. **Hillis Trupe AE, Hillis AI.** Paucity vs. verbosity: Another analysis of right hemisphere communication deficits. In Brookshire RH (Ed.), Clinical Aphasiology, 1985. Minneapolis: BRK Publishers, 1985; 83-96.
3. **Hillis Trupe AE.** Effectiveness of retraining phoneme to grapheme conversion. In Brookshire RH (Ed.), Clinical Aphasiology, 1986. Minneapolis: BRK Publishers, 1985;163-171.
4. **Hillis AE, Caramazza A.** Model-driven treatment of dysgraphia. In Brookshire RH (Ed.), Clinical Aphasiology, 1987. Minneapolis: BRK Publishers, 1987; 84-105.
5. **Hillis AE.** Effects of a separate treatments for distinct impairments within the naming process. In Prescott T (Ed.), Clinical Aphasiology, Vol. 19. Austin, Texas: Pro-Ed,1991; 255-265.
6. **Hillis AE, Caramazza A.** The effects of attentional deficits on reading and spelling. In Caramazza A. (Ed.), Cognitive Neuropsychology and Neurolinguistics: Advances in Models of Cognitive Function and Impairment. London: LEA, 1990;289-310.
7. Caramazza A, **Hillis AE.** Modularity: A perspective from analysis of acquired dyslexia and dysgraphia. In Malatesha Joshi R(Ed.), Written Language Disorders. Dordrecht, Holland: Kluwer Academic Publishers, 1991; 71-84.
8. **Hillis AE, Caramazza A.** Category-specific naming and comprehension impairment: Theoretical and Clinical Implications. In Prescott T. (Ed.), Clinical Aphasiology, Vol. 20. Austin, Texas: Pro-Ed, 1991; 191-200.
9. Caramazza A , **Hillis AE.**For a theory of rehabilitation. In Mazzucchi A. (Ed.), New Frontiers in Neurorehabilitation. Bologna, 1992; 11-26.
10. **Hillis AE, Caramazza A.** The reading process and its disorders. In Margolin D. (Ed.), Cognitive Neuropsychology in Clinical Practice. New York: Oxford University Press, 1992; 229-261.
11. **Hillis AE , Caramazza A.** Theories of lexical processing and theories of rehabilitation. In Humphreys G , Riddoch MJ, (Eds.), Cognitive Neuropsychology and Cognitive Rehabilitation, Hillsdale, NJ: Lawrence Erlbaum Associates, 1994;449-482.
12. **Hillis AE.** Contributions from cognitive analyses. In Chapey R. (Ed.), Language intervention strategies in adult aphasia. Baltimore: Williams and Wilkens, 1994;207-219.

13. Caramazza A, **Hillis AE**, Leek E, Miozzo M. The organization of lexical knowledge in the brain: Evidence from category- and modality-specific deficits. In Hirschfeld L, Gelman S. (Eds.), Mapping the mind: domain specificity in cognition and culture. Cambridge: Cambridge University Press, 1994; 68-84.
14. **Hillis AE**, Caramazza A. Category- and modality specific deficits in lexical processing. In Sugishita M. (Ed.), New Horizons in Neuropsychology. Amsterdam: Elsevier, 1994;209-224.
15. **Hillis AE**, Caramazza A. "I know it but I can't write it: Selective deficits in long and short-term memory. In Campbell R. (Ed.), Broken Memories: Neuropsychological Case Studies. London: Blackwell, 1995;344-65
16. Young MA, **Hillis AE**, Lenz FA. Sensory sequelae/ cranial central pain. In MacFarlane R , Hardy DG (Eds.), Outcome of Head, Neck, and Spinal Trauma: A Medicolegal Guide. Oxford: Butterworth Heinemann, 1996; 81-90.
17. **Hillis AE**. What's in an Name? A Model of the Cognitive Processes Underlying Object Naming. In Vischbrink E, Baastiaanse R (Eds.), Linguistic Levels in Aphasia. New York: Singular, 1998; 35-48.
18. **Hillis AE**. Organization of the lexical system. In Rapp BC (Ed.), The Handbook of Cognitive Neuropsychology. Philadelphia: Psychology Press, 2000;.185-210.
19. **Hillis AE**, Bahr DC. Neurological and Anatomical Bases of Speech. In Bahr DC (Ed.), Oral Motor Assessment and Treatment: Ages and Stages. Needham heights, MA: Allyn, Bacon, 2000;1-41.
20. Beeson P., **Hillis AE**. Comprehension and production of written words. In Chapey R (Ed.), Language Intervention Strategies in Aphasia and Related Neurogenic Communication Disorders (4th ed). Baltimore: Williams and Wilkens, 2001; 572-604.
21. **Hillis AE**. Cognitive neuropsychological approaches to rehabilitation of language disorders. In Chapey R. (Ed.), Language Intervention Strategies in Adult Aphasia (4th ed). Baltimore: Williams and Wilkens, 2001;.513-523.
22. **Hillis AE** , Caramazza A. Aphasia. In Nadel L. (Ed.), Encyclopedia of Cognitive Neuroscience. London: Macmillan Reference Ltd. 2003;469-470.
23. **Hillis AE**, Breese EL. Aphasia recovery: stages and mechanisms. In Freddi A. (Ed.) Stroke Today. Rome: San Raffaele Termini, 2003;288-297.
24. **Hillis AE**. Alexia. In Kent R. (Ed.), MIT Encyclopedia of Communication Disorders. Cambridge, MA: MIT Press., 2003; 236-240.
25. **Hillis AE**, Rapp BS. Cognitive and neural substrates of written language comprehension and production. In Gazzaniga M (Ed.), The New Cognitive Neurosciences (3rd Ed). Cambridge, MA: MIT Press, 2004;755-788
26. **Hillis AE**. For a theory of rehabilitation: progress in the decade of the brain. In Halligan P, Wade D. (Eds), Effectiveness of Rehabilitation of Cognitive Deficits. Oxford, UK: Oxford University Press; 2005;271-280.
27. **Hillis AE**. Application of magnetic resonance perfusion and diffusion imaging to the study of linguistics. In Brown K. (Ed.), Encyclopedia of Language and Linguistics, 2nd Ed. Oxford: Elsevier, 2005; 469-470.
28. **Hillis AE**. Acute ischemic stroke. In Johnson RT, Griffin J , McArthur J. (Eds). Current Therapy in Neurologic Disease (7th ed). St. Louis, MO: Mosby. 2005; 213-217.
29. Rosenberg JD, Gottesman R , **Hillis AE** (in press). General medical management of stroke. In Wityk R, Llinas R. (Eds.), Diagnosis and Treatment of Stroke. American College of Physicians.
30. **Hillis AE** (in press). Alexia and agraphia. In Godefroy O, Bogousslavsky J. (Eds.), The Behavioural and Cognitive Neurology of Stroke. Cambridge: Cambridge University Press.
31. **Hillis AE**. (in press). Imaging acute aphasia. In Schaller B. (Ed.), State-of-the-Art Imaging in Stroke: The Present State and Implications for the Future. Basel: Karger Publishers.
32. **Hillis AE**, Chang S. (in press). Medical intervention for acute aphasia. In Marien P, Robert E. (Eds) Afasie en afasietherapie. Antwerpen, Belgium: Garant Uitgeverij (translated into Dutch).
33. **Hillis AE** (in press). Language and frontal cortex. In Miller BL , Cummings J. (Eds). The Human Frontal Lobes (2nd Ed). New York: The Guilford Press.
34. **Hillis AE** (in press). Cognitive processes underlying reading and writing and their neural substrates. In Miller B, Goldenberg G. (Eds.). Neuropsychology and Behavior, A Volume in Handbook of Clinical Neurology Series, (3rd ed, edited by Aminoff M, Boller F, Swaab D). Amsterdam: Elsevier.
35. Shapiro K, **Hillis AE**, Caramazza A. (in press). The semantic representation of verbs. In Hart J. (Ed.), The neural basis of semantic memory. Cambridge: Cambridge University Press.
36. **Hillis AE**. (in press). Neural correlates of the cognitive processes underlying reading: Evidence from Magnetic Resonance Perfusion Imaging. In Cornelissen P, Hansen P, Kringelbach M , Pugh K (Eds)., The neural basis of reading. Oxford: Oxford University Press.
37. Alexander M , **Hillis AE** (in press). Aphasia. In Miller B, Goldenberg G. (Eds.). Neuropsychology and Behavior, A Volume to Handbook of Clinical Neurology Series, (3rd ed, edited by Aminoff M, Boller F, Swaab D). Amsterdam: Elsevier.

Edited Book:

1. **Hillis AE.** Handbook of Adult Language Disorders: Integrating Cognitive Neuropsychology, Neurology, and Rehabilitation. Philadelphia: Psychology Press. 2002; (460 pages).

Edited Special Issues:

1. **Hillis AE.** New techniques for identifying the neural substrates of language and language impairments. Special issue of *Aphasiology* (sold separately as a book by Psychology Press), 2002
2. **Hillis AE.** Progress in cognitive neuroscience research on dysgraphia. Special issue of *Neurocase*. 2004; Vol 10, issue 2.

Edited Supplement:

1. Kertesz A, **Hillis A**, Munoz DG. Frontotemporal degeneration and Pick's disease. *Ann Neurol*; 2003;54, Suppl 5.

Invited Book Reviews:

1. **Hillis AE.** Review of *Brain Mapping: The Systems and Brain Mapping: The Disorders.* *Ann Neurol*, 2001;49, 551-552.
2. **Hillis AE.** Review of *Stroke Syndromes and Unusual Causes of Stroke.* *Neuropsychiatry, Neuropsychology, and Behavioral Neurology*, 2003;15, 156-157.
3. **Hillis AE.** Review of *The Cognitive and Neural Bases of Spatial Neglect.* *Ann Neurol*. 2003;54, 844.
4. **Hillis AE.** Review of *The Parietal Lobes.* *Ann Neurol*, 2004;56, 605.
5. **Hillis AE.** Review of *Human Brain Function.* *Ann Neurol* 2005;58, 343-344.

Published Abstracts (> 100) available upon request

TEACHING:

Classroom instruction

Lecturer, Neurology Resident Noon Lecture Series

2000-present Annual Lectures:

Stroke Syndromes (8/00, 8/01, 8/02, 8/03, 8/04, 8/05); Delirium (7/02, 7/03, 7/04, 7/05);
Differential Diagnosis of Dementia I and II (9/03, 9/04, 8/05);
Apraxia and Agnosia (4/02, 4/04, 4/05);
Interpreting Neuropsychological Tests (1/05);
Alexia, Agraphia, and other Cognitive Syndromes (2/04, 2/05, 2/06)

Lecturer, Physical Medicine and Rehabilitation Lecture Series

Dementia (10/05)
Neuroimaging (11/05)

Lecturer, Medical Psychology Seminar Series

Subcortical Aphasia (9/03)
Hemispatial Neglect (3/05)

Lecturer, Medical Student Neurology Clerkship Lecture Series

Cognitive Disorders, every 4 week session)

Lecturer, Medical Student Neuroscience Course

Aphasia (3/01, 3/02, 3/03, 3/04, 3/05, 3/06)

Lecturer, Neuroscience and Cognition II (Dept. of Neuroscience)

Neuroanatomy of Language (1/01, 1/02, 1/03, 1/04, 1/05, 1/06)

Lab Instructor, Medical Student Neurology and Neuropathology Course (2/00, 2/01, 2/02, 2/03)

Lecturer, Johns Hopkins School of Nursing

Neurological Exam (5/02, 5/03)
Communication Disorders, (4/05, 4/06)

Clinical instruction

“Chairman’s Rounds”, Johns Hopkins Bayview Medical Center, Neurology (bimonthly)

1999-present Instructor/Preceptor, Medical Student Clinical Skills Course (2/99, 2/00, 2/01; 2/02, 2/03, 2/04)

1999-present Instructor/Preceptor; Medical Student Clerkship, Outpatient Neurology Clinic (weekly)

2005-2006 Morning report, Neurology residency

CME Instruction

- 3/01 Lecturer; *Cerebrovascular Topics: Focus on Acute Stroke Treatment*. JHSOM
6/01 Lecturer; *Second Annual Residential Course for Young Neurologists: Restoration of Function in Neuropsychology*. Alviano, Italy
10/01 Lecturer; *Behavioral Neurology Course*. Harvard Medical School
6/02 Lecturer; *3rd International Congress Genetics and Regeneration in Neuroscience*; Terni, Italy
11/02 Lecturer; *Behavioral Neurology Course*. Harvard Medical School
6/02 Lecturer; *3rd International Congress Genetics and Regeneration in Neuroscience*; Terni, Italy
3/05 Lecturer; *11th Annual Update on The Treatment Of Alzheimer's and Related Disorders: Defining the Standard of Care*. JHSOM
11/05 Lecturer; *Looking Forward: Tomorrow's Neurology*. JHSOM

MENTORING:

Research Advisees (medical and pre-medical students and residents):

- 6/00-02 **Elizabeth Tuffiash, BS** (medical student); First authored abstract presented at *Congress of Neurologic Surgeons*, September, 2002; Article: **Tuffiash E**, Tamargo R, Hillis AE. *Stroke* 2003; 34:2195-2199.
- 9/00-11/01 **John Hixson, MD** (Medical Student; now at U. of Pennsylvania); First authored abstract presented at *The Annual Meeting of the American Academy of Neurology*; April, 2002.
- 9-10/01 **Sang Oh, MD** (Medical Student; now at University of Maryland); First authored abstract presented at *American Academy of Neurology*; April, 2002. Co-author of article in *Annals of Neurology*.
- 4-9/02 **Anja Duinkerke, MD** (medical Student, Erasmus University Medical School); First authored abstract presented at *Congress of Neurological Surgeons*, 2003; Article: **Duinkerke A**, Williams M, Rigamonti D, Hillis AE, *Cognitive and Behavioral Neurology*, 17(3):179-184.
- 9/02-6/03 **Jared Medina, BS** (doctoral student in Cognitive Science); First authored abstracts presented at *The Annual Meeting of the American Academy of Neurology*; April, 2003 and Cognitive Neuroscience Society April 2003. (Journal article under review)
- 10/02-5/03 **Raquel Charles, MD** (medical student; currently fellow in Medicine); Article: **Charles R**, Hillis AE, *Behavioural Neurology*, 2005, 16, 15-23.
- 5/03-8/03 **Lora Reineck, BS** (medical student); Recipient of American Heart Association Medical Student Research Award. First authored abstract presented at *International Stroke Conference*, February 2003. Article: **Reineck L**, Agarwal S, Hillis AE, *Neurology*, 2005, 64, 828-833.
- 1/03-8/04 **Elisabeth Breese Marsh, BS** (medical student) [1-8/03; 5-8/04]; Recipient of American Heart Association Medical Student Research Award.; First authored abstract presented at International Stroke Conference, February 2005; First authored articles: **Breese E**, Hillis AE *Brain and Language*, 89, 3-8, 2004; **Marsh E.B.**, Hillis AE. *Neurocase*, 11, 325-318, 2005; **Marsh, E.B., Hillis AE** *Progress in Brain Research*, in press; **Marsh, E.B**, Hillis, A.E. *Cortex*, in press
- 8/04-8/05 **Shannon Chang** (pre-medical student; currently at Baylor Medical School); First authored abstract presented at *American Academy of Neurology*, 2003. Article: **Chang S**, Agarwal S, Williams MA, Rigamonti D, Hillis AE. *The Neurologist*, 12, 39-42, 2005.
- 7/03-present **Vivek Prabhakaran, MD, PhD** (neurology and neuroradiology resident); First authored abstracts presented at *Cognitive Neuroscience Society, 2004, Society for Neuroscience, American Neurological Association*. Manuscript under review.
- 7/03-05 **Lynda Ken** (pre-medical student; currently at U. Michigan School of Medicine); First authored abstract presented at the *American Academy of Neurology*, 2005. (co-author on *Annals of Neurology* article, 2003)
- 2004-05 **Lisa Philipose, BS**. (medical student); Winner of Ehrlich Award, Young Investigators' Day. JHUSOM. First authored abstracts presented at *Society for Neuroscience, 2004, International*

Stroke Conference in February, 2006 and *American Academy of Neurology* in April, 2006. Two manuscripts under review.

- 2004-05 **Sachin Agarwal, MD, MPH**; First authored abstracts presented at 30th *International Stroke conference*. Article: Reineck L, **Agarwal S**, Hillis AE. *Neurology*. 2005; 64(5): 828-33.
- 2004-05 **Jonathon Kleinman** (undergraduate student); First authored abstract to be presented at *American Academy of Neurology* in April, 2006.
- Summer 2005 **Pushpa Raja, BS** (medical student); First authored abstract presented at the *International Stroke Conference* in February, 2006
- Summer 2005 **Leah Gold** (undergraduate student). First authored abstract to be presented at *American Academy of Neurology* in April, 2006.

Thesis Committees:

- 7/01 Fero Kuminiak, PhD in Cognitive Science. Dissertation committee, July, 2001.
- 9/02 Matthew Goldrick, PhD in Cognitive Science. Dissertation committee, September, 2002.
- 9/05 Adam Buchwald, PhD in Cognitive Science, Dissertation committee, September, 2005
Marlis Gonzalez-Fernandez, GTPCI PhD candidate in the Department of PM/R
Rebecca Gottesman, GTPCI PhD candidate in the Department of Neurology
- 4/05 Thesis Examiner: Ruth Brundson, PhD, Macquarie University, Sydney, Australia, April, 2005
- 2006 Thesis Examiner: Britta Biedermann (PhD pending), Macquarie University, Sydney, Australia

Current Post-Doctoral Fellows:

- 2004-07 Rebecca Gottesman, MD; Awarded institutional K12 under my mentorship
- 2004-08 Lori Jordan, MD; Awarded institutional K12 under my mentorship
- 2006-07 Andrew Lee

Training Grant Participation

- 2004-07 K12 RR17627 (PI: Franklin Adkinson). Role: Faculty mentor
- 2005-2006 Post-baccalaureate Research Education Program. Role: Faculty mentor
- 2005-2008 K12 RR17627 (PI: Franklin Adkinson). Role: Faculty mentor

EDITORIAL ACTIVITIES:

- 1997-2006 Action Editor, *Cognitive Neuropsychology*
- 2000-present Associate Editor, *Language and Cognitive Processes*
- 2002-2005 Associate Editor, *Annals of Neurology*
- 2004-present Co-Editor in Chief, *Behavioural Neurology*
- 2004-present Associate Editor, *American Journal of Speech Language Pathology*

Other Editorial Boards:

- 1999-present *Brain and Language*
- 2000-present *Aphasiology*
- 2003-present *Neurocase*
- 2005-present *Future Neurology*
- 2005-present *Nature Clinical Practice Neurology* (Advisory Board)

Guest peer reviewer, journals:

- Acta Neurologica Scandinavica*
- American Journal of Speech Language Pathology*
- 1999-2002 *Annals of Neurology*
- 1990-2000 *Aphasiology*
- Brain*
- 1995-1999 *Brain and Language*
- Brain and Cognition*
- Cognition*
- 1992-1997 *Cognitive Neuropsychology*
- Cognitive and Behavioral Neurology*

Cortex
European Journal of Neurology
Journal of Cerebral Blood Flow and Metabolism
Journal of Cognitive Neuroscience
Journal of Neurology
Journal of Neuroscience
Journal of Neurology, Neurosurgery, and Psychiatry
 1995-2000 *Language and Cognitive Processes*
Multiple Sclerosis
 1995-2002 *Neurocase*
NeuroImage
Neurology
Neurology India
Neuropsychological Rehabilitation
Neuropsychologia
Neuropsychology
Neurorehabilitation and Neural Repair
Stroke

CLINICAL ACTIVITIES:

Specialty Certification and Licensure:

American Board of Neurology and Psychiatry: Certificate Number: 49324
 Maryland Medical License Number: DOO54472

Service Responsibilities:

Current: Attending Neurologist, Clinical Stroke Service, 1 month per year; additional weekend and evening acute stroke call
 Inpatient Cognitive Neurology Consultations, Acute Stroke Consultations (4-6/ month)
 Cognitive Disorders and Cerebrovascular Disease Clinic (half day per week)

Previous:

Attending Neurologist, Neurology Consultation Service (2 weeks per year)
 Attending Neurologist, Inpatient Neurology Service (2-4 weeks per year)

SYSTEMS INNOVATION and QUALITY CONTROL Activities *This section was not required at the time of Dr. Hillis' promotion*

ORGANIZATIONAL ACTIVITIES:

Institutional Administrative Appointments:

1999-2005 Neurology Residency Selection Committee
 1999-2005 Member
 2001-2002 Chair
 2000-2002 Brain Injury Recovery Center, Organizational Committee
 2001-present Appointments and Promotions Committee (Neurology and Neurosurgery Department)
 2002-present Agenda Committee
 2002-2005 Medical School Admissions Committee
 2003-present Strategic Planning Committee: Cardiovascular and Cerebrovascular Diseases
 2003-2006 Medical School Council
 2003-04 MSC Vice Chair
 2004-06 MSC Chair
 2004-2005 Search Committee: Director of Neuroscience
 2004-2005 LCME Institutional Self-Study Task Force, Steering Committee and Faculty Subcommittee
 2003-2006 Advisory Board of the Medical Faculty
 2004-2006 Agenda Committee
 2006-present Subcommittee on Diversity
 2004-present Committee on Clinician Educators, and Subcommittee on Promotion of Clinician Educators

2004-present Working Group on Human Trials of Human Stem Cell Based Interventions
 2005-present Advisory Board of *Hopkins Medicine*
 7/05-present Neurology Residency Program Director
 7/05-present Co-Director, Division of Cerebrovascular Disease

Professional Societies and Leadership:

undated XXIIInd International Symposium on Cerebral Blood Flow, Metabolism, and Function
 Abstract Reviewer
 Behavioral Neurology Society
 Operation Stroke, Emergency Medical Service committee , Medical Advisory committee
 Cognitive Neuroscience Society
 Society for Neuroscience
 1985-present Clinical Aphasiology Conference; Program committee 1985, 1992;
 Program Chair 2003; Conference Chair 2004; Steering Committee (2003-present)
 1985-1992 American Congress of Rehabilitation Medicine,
 Committee on Legislation (1985-89); Committee on Reimbursement (1990-92)
 1988-1991 National Aphasia Association, Chair of Public Relations for Maryland (1988-1991)
 1989-1992 Academy of Neurologic Communication Disorders and Sciences,
 Professional Affairs (1989), Professional Practices Committee (1990-92)
 2002-2004 Academy of Aphasia, Nominating committee (2002-2004; Chair, 2004)
 2002-present American Academy of Neurology (and Section on Behavioral Neurology)
 Presenter of Scientific Highlights: Behavioral Neurology (2002); Course faculty 2002,
 2003, 2005, 2006; Abstract Reviewer for Annual Meeting (2003); Scientific Session Chair
 (2004)
 2004-2008 Chair, World Federation of Neurology- Research Group on Aphasia and Cognitive Disorders;
 F1000 Medicine (Faculty 1000 Medicine) Evaluation Board
 2004-2006 American Neurological Association; Scientific Program Committee
 American Heart Association Stroke Council
 Abstract Reviewer for the International Stroke Conference (2003-2007)
 Scientific Session Chair, 2005, 2006

Advisory Committees and Review Groups:

Grant Review Committees

1988 American Speech and Hearing Foundation -
 1997-2003 National Science Foundation - outside grant reviewer 1997, 1998, 2003
 Cognitive Neuroscience Panel, 2002
 1999-present Charles A. Dana Foundation
 2002-2006 Wellcome Trust (U.K.), ad hoc grant reviewer 2002, 2003, 2004, 2005, 2006
 2003-2005 Medical Research Council (U.K.), ad hoc grant reviewer – 2003, 2004, 2005
 2003-2004 Leverhulme Trust (U.K.), ad hoc grant reviewer 2003, 2004
 2004 Biotechnical and Biological Sciences Research Council (U.K.), ad hoc grant reviewer
 2005 American Heart Association, Bugher Peer Review Committee – 2005
 2005 Israel Science Foundation (Israel) – 2005
 2006 American Stroke Association, Brain3 Peer Review Committee - 2006
1999-present NIH Study Sections:
 7/99 Center for Scientific Review, Special Emphasis Panel
 12/00 Center for Scientific Review, Special Emphasis Panel, ZRG1 BBBP
 11/01 Center for Scientific Review, Special Emphasis Panel, ZDC1 SRB
 3/02 Center for Scientific Review, Study Section, Biobehavioral and Behavioral
 Processes (ad hoc member)
 6/03 Center for Scientific Review, ZAG1 SRC(99)
 2003-07 Center for Scientific Review, Study Section, Language and Communication
 (standing member)

RECOGNITION:

Awards, Honors:

- Alpha Omega Alpha
- Phi Beta Kappa
- HealthSouth Special Achievement Award for Outstanding Clinical Services
- 1993-94 The Sol Goldman Award, (for medical students in geriatric medicine)
- Maryland Speech-Language-Hearing Association Award for Outstanding Contributions
- 1995-96 Intern of the Year, Greater Baltimore Medical Center
- 2003 American Neurological Association, Derek Denny-Brown Young Neurological Scholar Award,
- 2004 American Academy of Neurology, Norman Geschwind Prize in Behavioral Neurology, 2004

Invited Lectures, Panels:

Local and National Invited Lectures (Keynote Addresses, Visiting Scholar Lectures, Grand Rounds, etc.)

- 10/86 Recent Advances in Cognitive Remediation Techniques. *Rehabilitation Update*, Florence, SC
- 6/88 Cognitive and Communicative Rehabilitation Following Traumatic Brain Injury. *Conference on Rehabilitation of the Head Injured Adult*. Florence, SC
- 3/89 Studies on Remediation of Neurogenic Writing Deficits. *Annual Convention of the Maryland Speech and Hearing Association*, Frederick, MD
- 10/89 Some aspects of language processing revealed by recent aphasia research. *Distinguished Speakers Lecture Series*, Loyola College, Baltimore, MD
- 6/90 Single subject studies of aphasia. *Aphasia Practice in the 90's*, National Rehabilitation Hospital, Washington DC
- 6/91 For a Theory of Remediation of Cognitive Deficits. *NIDCD Workshop on Treatment of Aphasia*, Bethesda, MD
- 3/91 Evaluation and Treatment of Reading Disorders Consequent to Brain Injury. *Sixth National Traumatic Brain Injury Symposium*, Baltimore, MD
- 4/94 The Application of Cognitive Neuropsychological Research to the Assessment and Treatment of Aphasia. *The New York Speech-Language-Hearing Association Convention*. New York, NY
- 6/94 What More Can We Learn about Language? Guest lecture for the Hooding Ceremony of the *Communication Sciences and Disorders Program, Massachusetts General Hospital*. Boston, MA
- 4/97 Where Do Semantic Errors Come From, and Where Do They Go? *Understanding Language and Cognition through Damaged Brains. Special Colloquium, Harvard University*. Boston, MA
- 11/99 What's Left? What Studies of Hemispatial Neglect Tell Us about the Neural Representations of Space. *Grand Rounds, National Rehabilitation Hospital*, Washington, DC
- 1/00 Treatment of Cognitive Impairments in Acute Stroke. *Conjoint Clinic, Johns Hopkins Hospital*; Baltimore, MD
- 2/00 The heterogeneous syndrome of hemispatial neglect. *District of Columbia Speech and Hearing Association Winter Workshop*; Washington, DC
- 3/00 Converging pathways toward understanding how language breaks down and recovers after stroke. *Voyages and Discoveries Series*, Johns Hopkins University, Krieger School of Arts and Sciences; Baltimore, MD;
- 6/00 Recent Advances in Stroke Prevention and Management. *Medical Grand Rounds*; Suburban Hospital, Washington, DC
- 6/00 Regions of Hypoperfused but Viable Tissue in Acute Stroke: Implications for Intervention and Neuro-behavioral Theory. *Johns Hopkins Department of Neurology 30th Birthday Symposium*. Baltimore, MD,
- 8/00 Salvaging Brain Tissue. *Psychiatry Grand Rounds*; Springfield Hospital Center, Sykesville, MD
- 2/01 New Treatments for Acute Stroke. *Noon Lecture Series of the Family Practice Residency Program; University of Maryland School of Medicine*; Baltimore, MD
- 2/01 Cortical Organization of the Language: Evidence from MR Perfusion and Diffusion Imaging. *Clinical Neuroscience Research Series*. Johns Hopkins University School of Medicine. Baltimore,
- 3/01 Selective Language Impairments Associated with Regions of Poor Perfusion in Acute Stroke. *Institute for Research in Cognitive Science; University of Pennsylvania School of Medicine*. Philadelphia, PA

- 3/01 Differential Diagnosis of Alzheimer's Disease. *Pfizer Preceptorship: Alzheimer's Disease Educational Program*. Johns Hopkins University School of Medicine; Baltimore, MD
- 3/01 Stroke Treatment: Future Directions. *Cerebrovascular Topics: Focus on Acute Stroke Treatment*. Johns Hopkins University School of Medicine
- 5/01 Conducting Research in a Clinical Setting. *Annual Convention of the Maryland Speech-Language and Hearing Association*. Towson, MD;
- 5/01 Behavioral Neurology and the Practicing Neurologist: Aphasia. Dinner Seminar, *American Academy of Neurology*, Philadelphia
- 6/01 New Treatment of Acute Stroke: Insights Toward Understanding Brain-language Relationships. *Biennial meeting of the Alumni Association*. Johns Hopkins University School of Medicine
- 10/01 Aphasia and the Brain: New Insights from Acute Stroke Treatment. *Medical Grand Rounds, Greater Baltimore Medical Center*; Baltimore, MD
- 10/01 Neural Basis of Language Deficits in Acute Stroke: Evidence from MR Perfusion and Diffusion Imaging. *Behavioral Neurology Course*. Harvard Medical School; Boston, MA
- 10/01 Improving Language by Increasing Perfusion in Acute Aphasia Due to Stroke. *Behavioral Neurology Course*. Harvard Medical School; Boston, MA
- 11/01 Neuroimaging in Aphasia Research. *Annual Convention of the American Speech-Language and Hearing Association*. New Orleans, LA
- 1/02 Subcortical Aphasia and Neglect: the Role of Cortical Hypoperfusion. *Clinical Neuroscience Research Series*. Johns Hopkins University School of Medicine. Baltimore, MD .
- 2/02 New Neuroimaging Techniques to Study Language. *Visiting Scholar*, Towson University; Baltimore, MD;
- 3/02 Disturbances in Cerebral Blood Flow and Language Function. *Visiting Scholar*, City University of New York; New York
- 3/02 Agnosia and Apraxia. *Brain Injury Association of Maryland Annual Education Conference*. Baltimore, MD
- 3/02 Advanced Neuroimaging of Brain Injury. *Brain Injury Association of Maryland Annual Education Conference*. Baltimore, MD
- 5/02 Study of the Neuroanatomical and Neurophysiological Correlates of Language Processing in Brain Damaged Individuals Using Neuroimaging Techniques. *NIDCD workshop entitled, "The Role of Neuroimaging in the Study of Aphasia Recovery and Rehabilitation: Research Needs and Opportunities"* Bethesda, MD
- 6/02 The Amazing Brain: Understanding Aphasia and Recovery. *Third National Conference of the National Aphasia Association*.
- 10/02 Sharpening the Image: Advances in Neuroimaging to Investigate Language and Aphasia. *5th Annual Conference on Medical Speech-Language Pathology*. MGH Institute for Health Professionals, Boston, MA;
- 10/02 Acute aphasia: a window on the neural basis of language processing. *Neurology Grand Rounds*, University of Maryland School of Medicine; Baltimore, MD
- 11/02 Early Medical Intervention for Aphasia. *Behavioral Neurology Course*. Harvard Medical School; Boston, MA
- 1/03 Neural Correlates of Unilateral Spatial Neglect. *Cognitive Neuroscience Colloquium Series*. Baylor University Medical Center. Houston, TX.
- 1/03 Neural Substrates of Lexical Processes. *Cognitive Science Lecture Series*. Rice University. Houston, TX.
- 4/03 Highlights of Behavioral Neurology. *Annual Meeting of American Academy of Neurology*. Honolulu, HI.
- 4/03 Neural Correlates of Hemispatial Neglect. *Institute for Research in Cognitive Science*. University of Pennsylvania. Philadelphia, PA.
- 4/03 Developing a theory of cognitive rehabilitation. *Visiting Scholar*, Towson University. Towson, MD.
- 7/03 Cognitive and neural substrates of written language comprehension and production. *Summer Institute in Cognitive Neuroscience*. Tahoe, CA
- 10/03 Broca's area and beyond: a new twist on localization of cognitive functions. *The Derek Denny-Brown Lecture, 128th Annual Meeting of American Neurological Association*. San Francisco, CA.
- 11/03 Localization of Language Functions in the Brain Using Diffusion and Perfusion Imaging. *Visiting Scholar*, Tulane University School of Medicine; New Orleans

- 2/04 Evaluating the Neural Basis of Cognitive Processes with Magnetic Resonance Perfusion Imaging. *Annual Meeting of the International Neuropsychological Society*. Baltimore, MD.
- 4/04 Lesion-Deficit Association Studies: Don't throw the baby out with the bath water. *Annual Meeting of the Behavioral Neurology Society*. San Francisco, CA.
- 5/04 Pharmaceutical adjuncts to aphasia therapy. *Cognitive Rehabilitation Research: Mapping Theory to Treatment Intervention*; Philadelphia, PA
- 5/04 The dominant role of the nondominant hemisphere in computing spatial representations for reading and writing. *Clinical Aphasiology Conference*. Deer Valley, Utah
- 8/04 Diffusion Tensor Imaging and Perfusion MRI in acute stroke. *White Matter in Cognitive Science: Advances in Diffusion Tensor Imaging and Its Applications*. New York Academy of Sciences
- 2004 Improving Cognitive Function with Neurosurgery: What Do the Effects Tell Us about the Brain? *Neurosurgery Grand Rounds*. Johns Hopkins Hospital, Baltimore, MD.
- 11/04 On the Brink: Recovering from Stroke. *A Woman's Journey 2004*. Baltimore, MD
- 12/04 Focal Dementia Syndromes: What do they reveal about the brain? *Neurology Grand Rounds*, George Washington University School of Medicine. Washington, DC
- 12/04 Space: the Next Frontier for Neuroimaging. *Neurology Grand Rounds*, Johns Hopkins University School of Medicine. Baltimore, MD
- 1/05 New Imaging in Stroke: Applications in Stroke Intervention and Cognitive Science. *Visiting Scholars Program*. Temple University/ Moss Rehabilitation Institute
- 3/05 Imaging Aphasia Recovery. *Neurology Grand Rounds*, Johns Hopkins University School of Medicine. Baltimore, MD
- 3/05 Differentiating Alzheimer's from Non-Alzheimer's Dementia. *11th Annual Update on The Treatment of Alzheimer's and Related Disorders: Defining the Standard of Care*. Johns Hopkins
- 4/05 New Insights about Language and Stroke Recovery from Imaging Aphasia. *7th Annual National Meeting on Rehabilitation Psychology*. Baltimore, MD
- 5/05 Recovery from Stroke: Phases and Brain Bases. *Kick-off Lecture for the Grover Lecture Series*, College of Health and Human Services, Ohio University. Columbus, Ohio
- 5/05 Localizing Function in the Brain: A New Twist on Lesion-Deficit Studies. *Visiting Scholar*, College of Health and Human Services, Ohio University. Columbus, Ohio;
- 9/05 Mechanisms of Acute and Chronic Recovery from Stroke. *Medical Grand Rounds*. Johns Hopkins Hospital. Baltimore, MD.
- 9/05 Transitioning from K23 to Independent Investigator. *American Neurological Association/NINDS Career Development Symposium*. San Diego, CA
- 11/05 Novel Approaches to Assessing and Treating Acute Ischemic Stroke. *Looking Forward: Tomorrow's Neurology*. Baltimore, MD
- 1/06 Mechanisms of Language Recovery after Stroke. *Neurology Grand Rounds*. Massachusetts General Hospital. Scheduled January, 2006.
- 3/06 Key Note Address, A Review of Neuroimaging and Insights into the Neural Basis of Aphasia and Recovery. Maryland Speech Language and Hearing Association Annual Convention. Frederick, Maryland. Scheduled March 2006
- 4/06 Cognitive Improvements after Shunting. Dinner Seminar, Evaluation and Management of Normal Pressure Hydrocephalus. *Annual Meeting of American Academy of Neurology*, Scheduled April, 2006
- 4/06 Language. Half-day course, Behavioral Neurology: Issues in Cognitive Impairment, *Annual Meeting of American Academy of Neurology*, Scheduled April, 2006

International Invited Lectures

- 3/90 Levels of Representation, Coordinate Frames, and Unilateral Neglect. *Visual Dyslexia/ Disorders of Reading and Writing*. Grange-over-Sands, England
- 9/90 The relationship between theories of lexical processing and theories of rehabilitation. *Cognitive Neuropsychology and Cognitive Rehabilitation*. Birmingham, England
- 5/93 Levels of Spatial Representation in Reading, Spelling, and Nonlexical Object Processing: Evidence from Dissociable Patterns of Unilateral Spatial "Neglect". *Theoretical issues in Cognitive Neuropsychology*, Trieste, Italy

- 11/93 Category- and Modality Specific Deficits in Lexical Processing. *The Ninth International Symposium of the Tokyo Metropolitan Institute for Neuroscience*. Tokyo
- 1/94 Where Do Semantic Errors Come From? Here, There, and Everywhere. *The Twelfth European Workshop on Cognitive Neuropsychology*. Bressanone, Italy
- 1/95 A Series of Therapy Studies for Naming Disorders. *Birkbeck College Seminar Series*. London, England;
- 1/95 Evidence for the Interaction of Phonological and Semantic Processes in Reading. *Workshop on the Cognitive Neuropsychology of Reading and Writing*. Paris, France
- 5/95 What's in a Name? A Model of the Cognitive Processes Underlying Picture Naming. *International conference on aphasiology (Sponsored by the Dutch Aphasia Foundation and the Association for Clinical Linguists)*. Groningen, Holland
- 5/95 Trials and Tribulations in the Treatment of Naming Impairments. *International Conference on Aphasiology*. Groningen, Holland
- 8/00 Regions of Hypoperfusion Associated with Selective Levels of Impairment in the Reading Process. *World Federation of Neurology Research Group on Aphasia and Cognitive Disorders*; Salvador, Brazil
- 6/01 Apraxia and Agnosia. *Second Annual Residential Course for Young Neurologists: Restoration of Function in Neuropsychology*. Alviano, Italy .
- 6/01 Neuropsychological Testing for Apraxia and Agnosia. *Second Annual Residential Course for Young Neurologists: Restoration of Function in Neuropsychology*. Alviano, Italy
- 6/01 Cognitive Rehabilitation of Naming Impairments. *Second Annual Residential Course for Young Neurologists: Restoration of Function in Neuropsychology*. Alviano, Italy
- 7/01 Modality-specific Deterioration in Naming Verbs: Implications for Models of Lexical Access. *International Neuropsychological Society*. Brazilia, Brazil
- 5/02 Neural Substrates of Lexical Processes: Evidence from MR Perfusion and Diffusion Imaging. *Inaugural Scientific Meeting of the Institute for Brain Sciences*. Hopital Purpan, Toulouse, France
- 6/02 Mechanisms of Language Recovery after Stroke: Neuroplasticity, Compensation and Reperfusion. *3rd International Congress Genetics and Regeneration in Neuroscience*; Terni, Italy
- 9/02 For a theory of rehabilitation: What have we learned in the decade of the brain? *International Scientific Meeting on Effectiveness of Rehabilitation of Cognitive Deficits*. Cardiff, Wales.
- 9/02 Deterioration of naming in primary progressive aphasia: Word class and modality effects. *Frontotemporal Dementia and Pick's Disease Conference*. London, Ontario .
- 11/02 Reperfusion and Neuroplasticity in Language Recovery. *Symposium on Cerebral Blood Flow*. Rome, Italy.
- 4/03 On Saying and Writing Sleigh versus Slay and Rite versus Write. *Verbs: Properties, Processes and Problems*. University College London. London, UK
- 5/03 Investigations of the Neural Substrates of Language with MR Perfusion Imaging. Cambridge University. Cambridge, UK
- 5/03 Prognosis for recovery from subcortical aphasia. *Neurorehabilitation of Aphasia*. Institute Guttman, Barcelona, Spain
- 6/03 Mechanisms of Language Recovery after Stroke. *International Congress, "Stroke Today."* Spoleto, Italy.
- 7/03 Imaging of Language Processing and Disorders. *Joint meeting of the International Neuropsychological Society and the German Neuropsychological Society*; Berlin, Germany .
- 8/03 Brain and Language: the Contribution of Perfusion Scanning. *Annual Science of Aphasia Conference*; Trieste, Italy
- 10/03 The Cognitive Neuropsychological Approach to Treatment: Limitations and Contributions. *Aphasia Therapy Workshop: Current Approaches to Aphasia Therapy*. Vienna, Austria
- 2/04 Acquired Aphasic Syndromes: A Primer for Neurologists, Psychiatrists, and Neuropsychologists. *Annual Meeting of the British Neuropsychiatry Association*. London, England
- 2/04 Studies of the neural bases of cognitive functions using MR Perfusion imaging. *Functional Imaging Laboratory*; Wellcome Department of Imaging Neuroscience; Institute of Neurology. London, England.
- 3/04 Subcortical aphasia and neglect. *Fourth Conference of Neurology*. Santiago, Cuba
- 9/04 What can acute aphasia tell us about the brain? *Key Note Address, 28th Annual Convention of Neuropsychology Association of Japan*. Hiroshima, Japan
- 9/04 Stages and mechanisms of recovery from aphasia. *28th Annual Convention of Neuropsychology*

- Association of Japan. Hiroshima, Japan*
- 9/04 Neural basis of hemispatial neglect. *Seminar Series, Showa University. Tokyo, Japan*
- 10/04 Neurology Career Tracks: Clinical Investigator. *Residents' Symposium, Annual Meeting of American Neurological Association. Toronto, CA*
- 11/04 The neural basis of recovery and response to therapy. *Congress on Aphasia Rehabilitation. Rotterdam, Holland.*
- 11/04 Integration of Cognitive Neuropsychology and Neuroscience to plan aphasia rehabilitation. *Congress on Aphasia Rehabilitation. Rotterdam, Holland*
- 4/05 Imaging aphasia recovery. *British Neuroscience Association. Brighton, UK*
- 5/05 New Insights regarding the anatomic basis for normal and abnormal language. *McGill University; Department of Neurology; Montreal, CA*
- 5/05 Mechanisms of cognitive recovery: evidence from imaging. *Imaging Recovery from Stroke. Hamburg, Germany*
- 7/05 Mechanisms of Aphasia Recovery after Acute Ischemic Stroke. *Beijing Tiantan Stroke Conference. Beijing, China*
- 3/06 Treatment of Letter-by-letter Reading (Discussant). *World Federation of Neurology Research Group on Aphasia and Cognitive Disorders. Buenos Aires, Argentina*
- 5/06 Neural Substrates of Hemispatial Neglect and Recovery of Spatial Attention. Turkish Cognitive Symposium. Marmaris, Turkey. Scheduled May, 2006.
- 6/06 Inhibition/Excitation of the Perilesional Area in Acute Stroke: Implications for Recovery and Rehabilitation. *Neuroimaging of Stroke and Functional Recovery. Montalcino, Italy. Scheduled June, 2006.*
- 7/06 Neurobiology of Hemispatial Neglect. *Japanese Neuroscience Society. Kyoto, Japan. Scheduled July, 2006.*
- 9/07 Keynote Speaker, *British Aphasiology Society. Edinburgh, UK. Scheduled September, 2007.*

Invited Panels and Workshops

- 6/91 NIH Workshop on Aphasia Treatment
- 5/02 NIH Workshop on the Role of Neuroimaging in the Study of Aphasia Recovery and Rehabilitation: Research Needs and Opportunities
- 9/04 NIH Workshop on Cognitive Rehabilitation
- 6/05 Lerici II Consensus Conference on Aphasia Treatment
- 9/05 NIH (NINDS) Workshop, Hydrocephalus: Myths, New Facts, and Clear Directions