
CURRICULUM VITAE

DATE: January 2005

NAME: Joshua I. Breier

PRESENT TITLE:

Associate Professor

Department of Neurosurgery
Division of Clinical Neurosciences
University of Texas Medical School/Houston
Houston, Texas

BIRTHDATE: December 10, 1945

CITIZENSHIP: US

UNDERGRADUATE EDUCATION:

B. A. (1969 - 1973) Major: Musical Composition, Berklee College of Music, Boston, Massachusetts.

B. S. (1962 - 1966) Major: Biochemistry, Cornell University, Ithaca, New York.

GRADUATE EDUCATION:

APA approved Internship in Clinical Psychology (1992 - 1993), Neuropsychology Specialty Track, Department of Clinical and Health Psychology, University of Florida, Gainesville, Florida.

Ph.D. (1991 - 1993) Clinical Neuropsychology, Department of Psychology, University of Houston, Houston, Texas. Doctoral Dissertation: Spatial and temporal factors in the integration of multisensory information in localization and detection tasks.

M. A. (1989 - 1991) Clinical Neuropsychology, Department of Psychology, University of Houston, Houston, Texas. Masters Thesis: The effects of equiluminant colored backgrounds on simple reaction time to flashed luminance decrements and bistable stroboscopic motion percepts.

POSTGRADUATE TRAINING:

Post-Doctoral Research Fellow (1993 - 1994) Neuropsychology Laboratory, Department of Clinical and Health Psychology, University of Florida, Gainesville, Florida.

Research: Magnetic resonance imaging of white and gray matter and hippocampal volumes in epilepsy, agnosia for hemiplegia during WADA testing, memory in epilepsy, psychophysiology of implicit memory.

Clinical: Neuropsychological assessment in neurological and psychiatric populations.

ACADEMIC APPOINTMENTS:

Assistant Professor (1994 - 1999) Department of Neurosurgery, The University of Texas Medical School/Houston.

Associate Professor (1999-present) Department of Neurosurgery, The University of Texas Medical School/Houston.

Clinical: (1996-present) Head of neuropsychology in the Department of Neurosurgery; Senior adult neuropsychologist at Hermann Hospital. Perform neuropsychological assessment of approximately 250 adult, adolescent, and pediatric patients per year, representing approximately 2000 hours of patient interaction. Approximately 60% of assessment is as the chief neuropsychologist with the Texas Comprehensive Epilepsy Program and includes neuropsychological testing for the purposes of lesion localization, Wada testing, and intraoperative and extraoperative functional mapping of receptive and expressive language cortex.

Research: Neuropsychological and functional brain mapping (positron emission tomography, magnetoencephalography), and psychoacoustics in clinical populations.

Teaching: Lectures to Neurology Residents at the University of Texas Medical School at Houston and Graduate students in Psychology at the University of Houston. Serve on the Medical School Admissions Committee as a Faculty Interviewer. Supervise 3 to 4 Neuropsychology Practicum students from the Clinical Psychology Graduate Program, University of Houston and 3 to 4 Post-Doctoral Fellows each year.

Adjunct Faculty (1996-present) Department of Psychology, The University of Houston: Train and supervise graduate students in the Clinical Neuropsychology program; sit on Thesis and Dissertation committees, give lectures on neuropsychological assessment and functional imaging.

HOSPITAL APPOINTMENTS: Credentialed at Hermann Hospital, Houston, Texas

LICENSURE: Licensed Clinical Psychologist, State of Texas - License # 2-5247

CERTIFICATION: Certified Clinical Psychologist, State of Texas

PROFESSIONAL ORGANIZATIONS:

International Neuropsychological Society (1989 - present)
Houston Neuropsychological Society (1994-present)
American Psychological Association (1998 - present)
American Epilepsy Association (1998-present)

Society for Neuroscience (1999 – present)

EDITORIAL POSITIONS:

Ad hoc reviewer for :
Developmental Psychology.
Epilepsia.
Archives of Neurology
Scientific Studies of Reading
Neuropsychology
Developmental Neuropsychology
Journal of Experimental Child Psychology
Brain Research
Learning Disabilities: A Contemporary Journal

SERVICE ON THE UNIVERSITY OF TEXAS - HOUSTON MEDICAL SCHOOL COMMITTEES:

Faculty Interviewer for prospective medical students (1996-1997)
Peer Review Committee, Department of Neurosurgery (1997-1998)

Played an integral role in organizing and writing the Department of Neurosurgery Self Study as part of the 6 year Departmental Review (1997-1998)

Faculty Interviewer for prospective medical students (1997-1998);
Peer Review Committee, Department of Neurosurgery (1998-1999)
Faculty Interviewer for prospective medical students (1998-1999);
Peer Review Committee, Department of Neurosurgery (1999-2000)
Faculty Interviewer for prospective medical students (1999-2000);
Faculty Interviewer for prospective medical students (2000-2001);
Faculty Interviewer for prospective medical students (2001-2002);
Faculty Senator (1999 - present)

SERVICE TO THE COMMUNITY:

Science Fair Judge – Poe Elementary School (1998; 1999)
Coach children's athletic teams: Little League Baseball; YMCA Basketball and Soccer;
Church League basketball
Work with neighborhood Civic Association to reinstate deed restrictions.
Board Member – Near Town Little League, Houston, Texas

CURRENT TEACHING RESPONSIBILITIES:

- Supervision of Neuropsychology graduate students from the University of Houston,

Department of Psychology in Clinical Practicum.

- Supervision of 3 to 4 Post-Doctoral Fellows in Neuropsychology
- Lectures to residents in the Department of Neurology.
- Guest lecturer at the University of Houston.
- Reader on comprehensive examinations for PhD candidates at the University of Houston, Department of Psychology.
- Chair and member of thesis and dissertation committees for graduate students -

Member, Dissertation Committee: "The formulation and standardization of a battery of tests of visual-perceptual-motor function for the adult cerebro-vascular accident patient" Marjorie Eileen Concha, Wits University, Johannesburg, South America (1998)

Chair, Dissertation Committee: "Effects of atypical language laterality on memory performance during Wada testing". Kathleen Fuchs - University of Houston Department of Psychology, Neuropsychology Track. (1999)

Member, Thesis Committee: "Effects of left temporal lobe epilepsy on the retrieval stage of memory". Lynne Cole, University of Houston Department of Psychology, Neuropsychology Track. (2000)

Chair, Thesis Committee: "Differential effects of language reorganization in response to unilateral left temporal lobe epilepsy on semantic and episodic memory" Allison Clark, University of Houston Department of Psychology, Neuropsychology Track. (2001)

Member, Dissertation Committee: "Organization of language cortex in bilingual speakers using magnetoencephalography" Robert N. Davis, University of Houston Department of Psychology, Neuropsychology Track. (2001)

CURRENT GRANT SUPPORT

Principal Investigator (40% effort) – "Functional brain reorganization in recovery from aphasia". Project 1 of the Program Project Grant entitled "Functional Brain Reorganization in Stroke Recovery" (Andrew C. Papanicolaou, PI). NINDS, NIH Grant 5PO1NS046588.

Co-Investigator (5% effort) – "Early Development of Auditory Temporal Processing" Principal Investigator: Lincoln Gray, Ph.D.; NIH \$753, 426 (2001-2005).

Co-Investigator (25% effort) – "Brain Activation Profiles in Dyslexia: A MEG Study" (Papanicolaou) 1 RO1 HD38346-01A1, National Institutes of Health. \$ 1,488,374 (2000 - 2005).

PAST GRANT SUPPORT:

Principal Investigator (40% effort)- "Auditory temporal processing in children with dyslexia", 1 RO1 HD/DC35938-01A1, National Institute of Child Health and Human Development, \$701,335 (1998 - 2003).

Co-Investigator (20% effort) - "Contributions of MEG to the Surgical Management of Epilepsy" (Papanicolaou), 1 RO1 NS37941-01A1. National Institutes of Health, \$ 2,674,447. (1999-2004).

Co-Investigator (5% effort) – "Early Development of Auditory Temporal Processing" Principal Investigator: Lincoln Gray, Ph.D.; March of Dimes #12-FY-00-0166. \$178, 851 (2000-2003).

Co-Investigator (Instrumentation grant) "Acquisition of Magnetic Source Imaging System for Cognitive and Educational Neuroimaging." PI: Andrew C. Papanicolaou, National Science Foundation. BCS-0116150. \$2,000,000 (2001-2002).

Principal Investigator - "Auditory temporal processing in children with reading disabilities", 1 12-FY98-0214, March of Dimes Birth Defects Foundation. (1998 - 1999).

Co- Investigator - "Effects of early auditory experience on binaural hearing". NIH grant 5 RO1 DC00018-06 (Gray) 9/1/94 - 9/1/98.

PUBLICATIONS:

Abstracts and Presentations:

1. Breitmeyer, B.G., and Breier, J. I.: Background color effects on visual reaction time and scanning rate. Paper presented at the annual meeting of the Psychonomic Society, Washington, D.C., Nov. 5 - 7. 1993.
2. Breier, J. I., and Gray, L.: Sound source localization in pre- and post-operative unilateral atresia patients. *Journal of Clinical and Experimental Neuropsychology* 15:39, 1993.
3. Breier J. I., Culhane K. A., Rettig, G. M., and Rutecki, P. The relationship of indices of language and memory laterality formed from Wada test data to variables affecting interhemispheric reorganization of these functions. *Journal of Clinical and Experimental Neuropsychology* 15:39, 1993.
4. Breier J. I., Leonard C. M., Bauer R. M., Gilmore R., and Roper S. Interhemispheric asymmetries in an index of temporal lobe cortical volume in patients with temporal lobe epilepsy. *Epilepsia* 35:147, 1994.

5. Leonard, C. M., Lombardino, L. J., Mercado, L., Foundas, A. L., Browd, S., Breier, J. I., Agee, O. F., and Heilman, K. M. Increased asymmetry of the planum temporale parallels improved phonological conceptual ability during childhood. *Society for Neuroscience Abstracts*, 1994.
6. Breier, J. I., Gray, L., and Jahrsdoerfer, R. A. Accuracy and precision in horizontal localization after correction for congenital conductive hearing loss. *Association for Research in Otolaryngology Abstracts* 19:188, 1995.
7. Breier, J. I., Plenger, P. M., Wheless, J. W., Thomas, A. B., Brookshire, B. L., Willmore, L. J., and Papanicolaou, A. C. Differential effects of early onset seizure activity on figural and spatial memory in patients with temporal lobe epilepsy. *Epilepsia* 36:132, 1995.
8. Plenger, P. M., Breier, J. I., Wheless, J. W., Brookshire, B. L., Papanicolaou, A. C., Thomas, A. B., and Willmore, L. J. The Utility of the MMPI in differentiating non-epileptic seizure disorder from frontal lobe epilepsy. Annual Meeting of the American Epilepsy Society, Baltimore, MD. *Epilepsia* 36:136, 1995.
9. Breier, J.I., Plenger, P.M., Wheless, J.W., Thomas, A.B., Brookshire, B.L., Curtis, V.L., Papanicolaou, A.C., Willmore, L.J. Evidence of re-organization of spatial and figural memory following early seizure activity. American Epilepsy Society, 1995.
10. Bauer, R. M., Breier J. I., Crosson, B., Gilmore, R., Fennell, E. B., and Roper, S.: Neuropsychological functioning before and after unilateral temporal lobectomy for intractable epilepsy. *Journal of the International Neuropsychological Society* 1:362, 1995.
11. Gray, L., Breier, J. I., and Jahrsdoerfer, R. Localization of reverberant and anechoic virtual stimuli after correction for congenital conductive hearing losses. *Association for Research in Otolaryngology Abstracts* 19:188, 1995.
12. Breier, J. I., Plenger, P. M., Fuchs, K., Castillo, R., Wheless, J. W., Thomas, A. B., Brookshire, B. L., Willmore, L. J., and Papanicolaou, A. C. Effects of temporal lobe epilepsy on spatial and figural aspects of memory for a complex geometric figure. 24th Annual Meeting of the International Neuropsychological Society, Chicago, IL, 1996; *Journal of the International Neuropsychological Society* 2:53, 1996.
13. Plenger, P.M., Breier, J.I., Willmore, L.J., Wheless, J.W., Thomas, A.B., Brookshire, B.L., Papanicolaou, A.C. Relationship of neuropsychological tests of frontal functioning to frontal lobe seizures. Annual International Neuropsychological Society Meeting, Chicago, IL, 1996.
14. Breier, J. I., Thomas, A. B., Mullani, N., Plenger, P. M., Wheless, J. W., Papanicolaou, A.C., and Willmore, L. J. Effects of age at onset and duration of chronic seizure disorder on asymmetries in temporal lobe metabolism and blood flow in complex

partial epilepsy. *Epilepsia* 37 (Suppl. 5):1996.

15. Brookshire, B. L., Breier, J. I., Fletcher, J. M., Plenger, P. M., Wheless, J. W., Thomas, A. B., Papanicolaou, A. C., and Willmore, L. J. Cognitive profiles of adults with temporal lobe epilepsy and academic deficits. Annual Meeting of the American Epilepsy Society, December, 1996; *Epilepsia* 37 (Suppl. 5):128, 1996.

16. Breier, J.I.; Thomas, A.B.; Mullani, N.; Plenger, P.M.; Wheless, J.W.; Papanicolaou, A.C.; Willmore, L.J. Effects of age at onset and duration of chronic seizure disorder on asymmetries in temporal lobe metabolism and blood flow in complex partial epilepsy. Poster presented at the Annual Meeting of the American Epilepsy Society, December 1996.

17. Brookshire, B.L.; Breier, J.I.; Fletcher, J.M.; Plenger, P.M.; Wheless, J.W.; Thomas, A.B.; Papanicolaou, A.; Willmore, L.J. Cognitive profiles of adults with temporal lobe epilepsy and academic deficits. Poster presented at the annual meeting of the American Epilepsy Society, December, 1996.

18. Plenger, P.M., Breier, J.I., Brookshire, B.L., Wheless, J.W., Thomas, A.B., Papanicolaou, A.C., and Willmore, L.J. Enhancing the discrimination of left temporal lobe epilepsy during the intracarotid sodium amobarbital procedure. *Epilepsia* 37 (Suppl. 5):133, 1996.

19. Breier, J. I., Brookshire, B. L., Fletcher, J. M., Plenger, P. M., Wheless, J. W., Thomas, A. B., Papanicolaou, A. C., and Willmore, L. J. Identification of side of seizure onset in temporal lobe epilepsy using memory tests in the context of academic achievement deficit. *Journal of the International Neuropsychological Society* 3:9, 1997.

20. Plenger, P. M., Breier, J. I., Mullani, N., Wheless, J. W., Thomas, A. B., Papanicolaou, A., and Willmore, L. J. Asymmetries in frontal lobe glucose uptake and executive functions in temporal lobe epilepsy. *Journal of the International Neuropsychological Society* 3:73, 1997.

21. Fuchs, K., Breier, J. I., Brookshire, B. L., Wheless, J. W., Thomas, A. B., Papanicolaou, A. C., Willmore, L. J. The relationship between memory and language performance during the Intracarotid Amobarbital Procedure. Annual Meeting of the American Epilepsy Society; Boston, MA; December, 1997; *Epilepsia* 38 (Suppl. 8): 217-218, 1997.

22. Caudle, D.; Breier, J.I.; Brookshire, B.L.; Wheless, J.W.; Thomas, A.B.; Papanicolaou, A.; Willmore, L.J. MMPI profiles as a function of side of seizure operation in temporal lobe epilepsy. *Journal of the International Neuropsychological Society* 4(1):19, 1998.

23. Fuchs, K., Breier, J. I., Brookshire, B. L., Breier, J. I., Wheless, J. W., Thomas, A. B., Papanicolaou, A. C., and Willmore, L. J. Language laterality affects Wada test

performance. *Journal of the International Neuropsychological Society* 4(1):73, 1998.

24. Papanicolaou, A.; Simos, P.; Breier, J.; Zouridakis, G. Language Mapping with Magnetoencephalography (MEG). *Journal of the International Neuropsychological Society* 7:S211, 1998.

25. Papanicolaou, A. C., Simos, P., Breier, J. I., and Zouridakis G. Language mapping with magnetoencephalography. Poster presented at the Annual International Meeting of the International Neuropsychological Society, July, 1998.

26. Zouridakis, G., Simos, P., Breier, J. I., and Papanicolaou, A. C. Assessment of functional hemispheric asymmetries in a visual task using MEG. Paper presented at the 16th Annual Houston Conference on Biomedical Research. Houston, Texas, April 2 -3, 1998.

27. Kuldau, J. M., Leonard, C. M., Breier, J. I., Zuffante, P., Gautier, E. R., Heron, D. C., Laverv, E. M., Packing, J., Williams, S. A., and DeBose, C. Cumulative effect of cerebral risk factors on the diagnosis of schizophrenia: An MRI study. *Society of Neuroscience Abstracts*, 1998.

28. Breier, J.I., Simos, P.G., Zouridakis, G., Papanicolaou, A.C. Reliability of MEG lateralization and localization of receptive language areas. 52nd Annual Meeting of the American Epilepsy Society; December 1998; *Epilepsia* 39 (Suppl. 6):143, 1998.

29. Papanicolaou, A.C., Breier, J.I., Gormley, W.B., Simos, P.G., Wheless, J.W., Constantinou, J.E.C., and Willmore, L.J. Comparison of language mapping using extra- and intraoperative electrocortical stimulation and magnetoencephalography. *Epilepsia* 39 (Suppl. 6):107-108, 1998.

30. Wilson, M.E., Shelley, K.S., McMullen, M., Breier, J.I. People with epilepsy in the work place. *Epilepsia* 39 (Suppl. 6):238, 1998.

31. Willmore, L.J., Wheless, J.I., Breier, J.I., Kataki, M., Smith, J.R., King, D.W., Meador, J.K., Park, Y.D., and Loring, D.W. A comparison of magnetoencephalography (MEG), MRI, and V-EEG in patients evaluated for epilepsy surgery. *Epilepsia* 39 (Suppl. 6):64, 1998.

32. Simos, P.G., Breier, J.I., & Zouridakis, G. Papanicolaou, A.C. Identification of language-related brain activity using magnetoencephalography. 11th International Conference on Biomagnetism, Biomag98, Sendai Japan, August 28-September 2, 1998.

33. Zouridakis, G., Simos, P.G., Breier, J.I., & Papanicolaou, A.C. Cerebral dominance assessment using magnetoencephalography. 11th International Conference on Biomagnetism, Biomag98, Sendai Japan August 28-September 2, 1998.

34. Papanicolaou, A.C., Simos, P.G., Breier, J.I., & Zouridakis, G. Mapping of Language specific cortex with MEG. 11th International Conference on Biomagnetism, Biomag98, Sendai, Japan August 28-September 2, 1998.
35. Zouridakis G., Simos P.G., Breier J.I., and Papanicolaou A.C. "Assessment of Functional Hemispheric Asymmetries in a Visual Language Task via MEG." Biomag98, P-IX-35, p230, 1998.
36. Papanicolaou, A.C., Simos, P.G., Breier, J.I., & Zouridakis, G. Language mapping with magnetoencephalography (MEG). *Neuroimage*, 7, S178, 1998.
37. Papanicolaou, A.C., Simos, P.G., Breier, J.I., & Zouridakis, G. Language mapping with magnetoencephalography. Fourth International Conference on Functional Mapping of the Human Brain, June 1998.
38. Maggio W.W., Simos P.G., Breier J.I., Zouridakis G., Gormley W.B., Constantinou J.E.C., Wheless J.W., Papanicolaou A.C. Magnetic Source Imaging Speech Mapping: Comparison with Intraoperative Speech Mapping. Rocky Mountain Association Meeting, 1999.
39. Simos, P.G., Breier, J.I., Zouridakis, G., Papanicolaou, A.C. MEG correlates of categorical perception of temporal cues for voicing in humans. *Journal of the International Neuropsychological Society*, 5: S135, 1999.
40. Breier, J.I., Simos, P.G., Zouridakis, G., & Papanicolaou, A.C. Timing of neuronal activity in distinct areas of the brain during a verbal recognition memory task. *Journal of International Neuropsychology Society* 5:153, 1999.
41. Wright, M., Breier, J.I., Wheless, J.W., Constantinou, J.E.C., and Willmore, L.J. Anxiety and conversion symptoms in adolescent pseudoseizures. *Journal of International Neuropsychology Society* 5:135, 1999.
42. Simos, P.G., Breier, J.I., Zouridakis, G., & Papanicolaou, A.C. MEG correlates of categorical perception of temporal cues for voicing in humans. Paper presented at the February 1999 International Neuropsychological Society Meeting. *Journal of International Neuropsychology Society* 5:125-126, 1999.
43. Breier, J.I., Zouridakis, G., Simos, P.G., & Papanicolaou, A.C. Timing of Activity in Distinct Brain Areas During a Recognition Memory Task for Words. Paper presented at the 17th Annual Houston Conference on Biomedical Engineering Research, February 10-13, 1999, Houston, Texas.
44. Papanicolaou, A.C., Simos, P., Breier, J., Zouridakis, G. MEG-Derived Maps of Language-Specific Cortex. 27th Annual Meeting of the International Neuropsychological Society; Boston, Massachusetts; February 10-13, 1999.

45. Zouridakis, G., Simos, P.G., Breier, J.I., Gormley, W.B., Wheless, J.W., Constantinou, J.E.C. & Papanicolaou, A.C. Language Mapping via Magnetoencephalography. Paper presented at the 17th Annual Houston Conference on Biomedical Engineering Research, February 10-13, 1999, Houston, Texas.
46. Papanicolaou, A.C., Zouridakis, G., Simos, P., Breier, J.I., Maggio, W.W., Gormley, W.B., Constantinou, J.E.C., Wheless, J., Willmore, L.J., Kramer, L.A. Comparison of MSI and Invasive Brain Mapping Procedures: Normative and Clinical Studies of Language. 5th International Conference on Functional Mapping of the Human Brain. Dusseldorf, Germany; June 22-26, 1999.
47. Papanicolaou, A.C., Simos, P., Zouridakis, G., Breier, J.I., Gormley, W.B., Constantinou, J.E., Wheless, J.W., Maggio, W.W. Applications of MEG to the Mapping of the Language Cortex. 2nd Annual Symposium on Non-Invasive Functional Source Imaging. Dubrovnik, Croatia; September 3-7, 1999.
48. Papanicolaou, A.C., Simos, P.G., Zouridakis, G., Breier, J.I., Gormley, W.B., Constantinou, J.E., Wheless, J.W., & Maggio, W.W. Mapping the language cortex with MSI. 23rd Annual International Epilepsy Congress; September 12-17, 1999; Prague, Czech Republic.
49. Maggio, W.W. Simos, P.G., Breier, J.I., Zouridakis, G., Gormley, W.B., Constantinou, J.E., Wheless, J.W., & Papanicolaou, A.C. Speech mapping with MSI: Comparison with intraoperative speech mapping. 23rd Annual International Epilepsy Congress; September 12-17, 1999; Prague, Czech Republic.
50. Papanicolaou, A.C., Simos, P.G., Zouridakis, G., Breier, J.I., Gormley, W.B., Constantinou, J.E., Wheless, J.W., Maggio, W.W. Mapping the Receptive Language Cortex. 1999 Annual Meeting, Society for Neuroscience, October 23-28, 1999. Society for Neuroscience Abstracts, 25(2): 1635, 1999.
51. Simos, P.G., Breier, J.I., Fletcher, J.M., & Papanicolaou, A.C. Failure to engage brain areas involved in phonological decoding in dyslexic children: A magnetic source imaging study. Society for Neuroscience Abstracts, 25(2): 2170, 1999.
52. Papanicolaou, A.C., Simos, P.G., Breier, J.I., Zouridakis, G., Constantinou, J.E., Wheless, J.W., Maggio, W.W. Applications of MEG to the mapping of the language cortex. 53rd Annual Meeting of the American Epilepsy Society; Orlando, Florida; December 3-9, 1999.
53. Simos, P.G., Fletcher, J., Breier, J.L., Berman, E., Zouridakis, G., Papanicolaou, A.C. Failure to Engage Brain Areas Involved in Phonological Access in Dyslexia: A Magnetic Source Imaging study. 1999 Annual Meeting, Society for Neuroscience, October 23-28, 1999. Society of Neuroscience Abstracts, 25(2): 2170, 1999.
54. Papanicolaou, A.C., Simos, P.G., Breier, J.I., Zouridakis, G., Constantinou, J.E.,

Wheless, J.W., & Maggio, W.W. Applications of MEG to the mapping of language specific cortex. Abstract presented at the 53rd Annual Meeting of the American Epilepsy Society, December 3-9, 1999. *Epilepsia* 40(7): 178, 1999.

55. Breier, J.I., Clark, A., Cass, J. Wheless, J.W., Constantinou, J.E.C. Profiles of cognitive performance in TLE patients with and without learning disability. Abstract presented at the 53rd Annual Meeting of the American Epilepsy Society, December 3-9, 1999. *Epilepsia* 40(7): 47, 1999.

56. Maggio, W.W., Simos, P.G., Breier, J.I., Zouridakis, G., Gormley, W.B., Constantinou, J.E.C., Wheless, J.W., Papanicolaou, A.C. Speech Mapping with Magnetic Source Imaging: Comparison with Intraoperative Speech Mapping. *Epilepsia* 40 (Suppl. 2): 50, 1999.

57. Breier, J., Clark, A., Cass, J., Wheless, J., Constantinou, J.E. Profiles of Cognitive Performance in TLE Patients With and Without Learning Disability. *Epilepsia*. 40(Suppl. 7): 47, 1999.

58. Papanicolaou, A.C., Simos, P.G., Zouridakis, G., Breier, J.I, Gormley, W.B., Constantinou, J.E., Wheless, J.W., Maggio, W.W. Mapping the Language Cortex with MSI. *Epilepsia* 40 (Suppl. 2): 50-51, 1999.

59. Maggio, W.W.; Simos, P.G.; Breier, J.I.; Zouridakis, G.; Gormley, W.B.; Constantinou, J.E.C.; Wheless, J.W.; Papanicolaou, A.C. Magnetic Source Imaging Speech Mapping: Comparison with Intraoperative Speech Mapping. Paper presented at the annual meeting of the Rocky Mountain Association, 1999.

60. Simos, P.G., Breier, J.I., Fletcher, J.M., Foorman, B.R., Bergman, E., & Papanicolaou, A.C. Consistent failure to engage brain areas involved in phonological decoding in dyslexia: A magnetic source imaging study of two consecutive series in children. *Journal of the International Neuropsychological Society*, 6:211, 2000.

61. Breier, J., Clark, A., Cass, J., Fletcher, J., Brookshire, B., Wheless, J., Constantinou, J. Specific Reading Disability in Temporal Lobe Epilepsy and Reorganization of Language Function. *Journal of the Neuropsychological Society*. 6(Suppl. 2): 197, February, 2000.

62. Simos, P., Breier, J., Fletcher, J., Foorman, E., Bergman, E., Papanicolaou, A.C. Consistent Failure to Engage Brain Areas Involved in Phonological Decoding in Dyslexia: A Magnetic Source Imaging Study of Two Consecutive Series of Children. *Journal of the Neuropsychological Society*. 6(Suppl. 2): 211, February, 2000.

63. Papanicolaou, A.C., Simos, P.G., Breier, J.I., Zouridakis, G., Constantinou, J.E., Wheless, J.W., Maggio, W.W. Applications of MEG to the Mapping of the Language-Specific Cortex. *Epilepsia*. 40(Suppl. 7): 179, 2000.

64. Maggio, W.W., Simos, P.G., Breier, J.I., Zouridakis, G., Gormley, W.B., Constantinou, J., Wheless, J.W., Papanicolaou, A.C. Magnetic Source Imaging Speech Mapping: Comparison with Interoperative Speech Mapping. *Epilepsia*. 40(Suppl. 7): 181, 2000.

65. Simos, P.G., Breier, J.I., Fletcher, J.M., Foorman, B.R., Bergman, E., Papanicolaou, A.C. Consistent failure to engage brain areas involved in phonological coding in dyslexia: A Magnetic Source Imaging study of two consecutive series of children (submitted). 28th Annual Meeting of the International Neuropsychological Society; Denver, Colorado; February 9-12, 2000.

66. Simos, P.G., Breier, J.I., Wheless, J.W., Maggio, W.W., Papanicolaou, A.C. Mechanisms for Reading Words and Pseudowords: Insights from Functional Imaging and Electrocortical Stimulation (submitted). 23rd Mid Year Annual Meeting of the International Neuropsychological Society; Brussels, Belgium; July 12-15, 2000.

67. Simos, P.G.; Breier, J.I.; Fletcher, J.M.; Foorman, B.R.; Mouzake, A.; Papanicolaou, A.C. Age-related Changes in Regional Brain Activation During Phonological Decoding and Printed Word Recognition (submitted). 23rd Mid Year Annual Meeting of the International Neuropsychological Society; Brussels, Belgium; July 12-15, 2000.

68. Breier, J.I., Wheless, J.W., Simos, P.G., Constantinou, J.E.C., Baumgarter, J.E., Venkatarman, V., & Papanicolaou, A.C. Language dominance in children as determined by magnetic source imaging and the intracarotid amobarbital procedure: A comparison. Paper presented at the 29th Annual Meeting of the Child Neurology Society. St. Louis, MO, October 25 – 28, 2000.

69. Castillo, E.M., Simos, P.G., Fletcher, J.M., Francis, D.J., Maestu, F., Breier, J.I. Ph.D., Maggio, W.W., Papanicolaou, A.C. Mapping of receptive language in Bilinguals using Magnetic Source Imaging. Poster presented at the annual Session at the Neuroscience Research Center, University of Texas Medical School/Houston, Houston, Texas, December 2, 2000.

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1. Breier, J.I., & Fletcher, J.M. Diseases of the nervous system and sense organs In S.B. Johnson, N. Perry, & R. Rozensky (Eds.). Behavioral applications to medical disorders. Washington: APA (In Press).

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Other Professional Communications:

Invited Lectures:

1. Neuropsychological evaluation of patients with intractable temporal lobe epilepsy in the context of academic achievement deficit. Lecture presented at the monthly meeting of the Houston Neuropsychological Society, January, 1997.
2. Functional brain mapping with magnetoencephalography. Lecture presented at the monthly meeting of the Houston Neuropsychological Society, January 1998.
3. The concept of central auditory processing disorder and its relationship to dyslexia. Lecture presented at the Region IV school district conference entitled "Dyslexia: putting the pieces together", September 1999.
4. A case of crossed aphasia in a patient with bilateral language representation confirmed by MEG. Lecture presented at the monthly meeting of the Houston Neuropsychological Society, December 1999.
5. Language mapping with magnetoencephalography: An update. Lecture presented at the monthly meeting of the Houston Neuropsychological Society, May 2000.
6. Functional imaging in dyslexia. Lecture presented at the Region IV school district conference entitled "Dyslexia: into the new millennium", September 2000.
7. The Injured Brain: Stroke and Trauma: To be delivered at the 8th annual public forum for Brain Awareness Week, The University of Texas Medical School at Houston, Houston, Texas, March 15, 2003.
8. Functional imaging in chronic aphasia after stroke. Lecture presented at the Stroke Update 2004: Neuro-Recovery conference, March 5- 6, 2004, sponsored by The University of Texas Health Science Center at Houston, Department of Neurology and the Office of Continuing Medical Education.
9. Maps of Receptive Language Function in Patients with Chronic Aphasia after Stroke using Magnetoencephalography. Lecture presented to the Houston Neuropsychological Association, Presidents Induction, March 5, 2004.
10. Imaging Language Function in Patients with Chronic Aphasia after Stroke using Magnetoencephalography. Lecture presented at the Texas Institute for Rehabilitation and Research REDS meeting, October 12, 2004.
11. Neuroimaging: Application to Adult and Child Language Disorders. Lecture presented at the Symposium on Language and Motor Speech Disorders in Children and Adults: Advances in Research and Intervention, The University of Houston, October 5, 2005.

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