

Revised 01/19/2007

CURRICULUM VITAE

Andrew C. Papanicolaou

Professor

Department of Pediatrics
Division of Developmental Pediatrics
and
Departments of Neurosurgery and Neurology

Director

Center for Clinical Neurosciences
www.uth.tmc.edu/clinicalneuro
Children's Learning Institute
The University of Texas-Houston
Health Science Center
1333 Moursund Street, Suite H114
Houston, Texas 77030

Clinical Professor

Department of Psychology
University of Houston
Houston, Texas 77020

The Vivian Smith Advanced Studies
Institute of the International
Neuropsychological Society
[www.uth.tmc.edu/clinicalneuro/institut
e](http://www.uth.tmc.edu/clinicalneuro/institute)

Adjunct Professor

Department of Linguistics
Rice University
Houston, Texas 77005

Magnetic Source Imaging Unit
Memorial Hermann Hospital
6411 Fannin
Houston, Texas 77030
713-704-1501

BIOGRAPHICAL

Date of Birth: July 8, 1950; Place of Birth: Greece; Citizenship: U.S.; Marital Status: Married, two children; Home Address: 18739 Martinique, Houston, Texas 77058; (281) 335-1173.

EDUCATION

Ph.D. (1974-1977) Department of Psychology, Southern Illinois University at Carbondale. Dissertation: Cerebral excitation profiles in language processing: The photic probe paradigm.

M.A. (1972-1974) Department of Psychology, Xavier University. Thesis: Incidental learning during a speech shadowing task.

B.S. (1970-1972) Xavier University. Major: General Psychology.

School of Philosophy (1968-1970) National University of Athens, Greece. Areas of concentration: Classics and Philosophy.

ACADEMIC EXPERIENCE

Professor (1993-Present) Department of Neurosurgery, The University of Texas - Houston Health Science Center. **Research:** Director: Functional brain mapping (Magnetoencephalography and Electrophysiology) program. **Clinical:** Intraoperative neurophysiological monitoring; Pallidotomy program. **Teaching:** Graduate course in Psychophysiology at the University of Houston. Course in functional Imaging at Rice University (1999); at the University of Sevilla, Spain (1999), and at the University of Athens, Greece (2001).

Professor (1990-1993) Division of Neurosurgery and Neuroscience Graduate Program, The University of Texas Medical Branch. **Research:** Functional brain mapping through Magnetoencephalography. **Clinical:** Intraoperative Monitoring. **Teaching:** Lectures in Behavioral Neuroscience and Graduate Course in Psychophysiology at the University of Houston.

Associate Professor (1986-1990) Division of Neurosurgery and the Neuroscience Graduate Program, The University of Texas Medical Branch. **Research:** Localization of sources of brain activity through magnetoencephalography, magnetic resonance imaging and electrophysiology; functional cerebral reorganization for language following traumatic injury or stroke. **Clinical:** Intraoperative Monitoring. **Teaching:** "Behavioral neuroscience". Lectures, the Neuroscience Graduate Program; "Psychophysiology", University of Houston, Graduate School, Houston, Texas.

Assistant Professor (1981-1986) Division of Neurosurgery and Neuroscience Graduate Program, The University of Texas Medical Branch. **Research:** Electrophysiologic assessment of neurosurgical patients; electrophysiologic and metabolic correlates of linguistic and cognitive processes. **Teaching:** "Fundamentals of Neuroscience": Lectures, the Neuroscience Graduate Program.

Senior Research Associate (1980-1981) Division of Neurosurgery, The University of Texas Medical Branch. **Research:** Establishment of the cognitive electrophysiology laboratory. **Clinical:** Development of acute care EEG and evoked potential monitoring facilities.

Adjunct Assistant Professor (1978-1980) Department of Psychiatry, University of Cincinnati College of Medicine, and Instructor, Department of Psychology, Xavier University. **Research:** Historical and theoretical foundations of cognitive neuropsychology. **Teaching:** "General psychology", "Experimental Psychology": Xavier University; "Cognitive neuroscience" seminar: The University of Cincinnati.

Graduate Assistant (1974-1977) Department of Psychology, Southern Illinois University. **Research:** Electrophysiologic correlates of cognitive processes; speech perception; neurolinguistics; attention and memory. **Teaching:** "Introductory psychology".

Graduate Assistant (1972-1974) Department of Psychology Xavier University. **Research:** Human and animal learning; perceptual illusions. **Teaching:** "Experimental Psychology", "General Psychology".

HONORS AND AWARDS

Deans Excellence Award, **University of Texas Houston Medical School**, Houston, TX (1999)

Certificate of Merit, **American Roentgen Ray Society**, New Orleans, LA (1999)

Cum Laude Citation, **American Society of Neuroradiology**, Philadelphia, PA (1998)

Fulbright Scholar, **University of Crete**, Greece (1991)

World Rehabilitation Fund, International Exchange of Experts Fellowship Award at the **Consiglio Nazionale delle Ricerche**, Rome, Italy (1986)

Doctoral Research Award, **Southern Illinois University** (1977)

Fellowship, **The Linguistic Society of America Summer Institute** (1976)

Assistantships, **Xavier and Southern Illinois Universities** (1972-1976)

Honorary Diploma, **The Royal Institute**, Athens, Greece (1969)

Merit Scholarship, **The National University of Athens**, Greece (1969)

Cultural Studies Award, **The Royal Institute**, Athens, Greece (1968)

GRANTS

Principal Investigator - "Texas Center for Learning Disabilities". Project 4. National Institutes of Health, \$1,241.369, (02/01/2006 - 01/31/2011).

Principal Investigator – “Spina Bifida: Cognitive and Neurobiological Variability” Project 4 2P01 HD35946 National Institute of Child Health and Human Development \$870,201.00 (02/01/2005 – 01/31/2010).

Principal Investigator – “Functional Brain Reorganization in Stroke Recovery” Project 1 P01 NS46588-01A2 National Institutes of Health \$6,088,419.00 (1/12/2004 - 11/30/2009).

Principal Investigator – “Cognitive Instructional and Neuroimaging Factors In Math” Project 4 5P01 HD046261-02 National Institutes of Health, \$749,650.00 (10/1/03 – 9/31/08).

Principal Investigator – The Vivian Smith Advanced Studies Institute of the International Neuropsychological Studies. “Genetically Based Syndromes of Mental Retardation.” Vivian L. Smith Foundation \$185,000.00, May 2005.

Principal Investigator – The Vivian Smith Advanced Studies Institute of the International Neuropsychological Studies. “The Human Frontal Lobes”. Vivian L. Smith Foundation \$175,000.00, May 2004.

Principal Investigator – The Vivian Smith Advanced Studies Institute of the International Neuropsychological Studies. “Memory and the Amnesias”. Vivian L. Smith Foundation \$199,000.00, March 2003.

Co- Principal Investigator - "Integration of MSI/fMRI Studies of Reading". 5R01NS044826 National Institute of Neurological Disorders and Stroke, National Institutes of Health, Direct costs \$978,681 (9/30/02 - 6/30/05).

Principal Investigator - “Mission Connect”. The Institute of Rehabilitation and Research Foundation. (TIRR) \$156,433.80 March 2002.

Principal Investigator – The Vivian Smith Advanced Studies Institute of the International Neuropsychological Studies. “Language and the Brain”. Vivian L. Smith Foundation \$189,000.00, March 2002.

Co-Principal Investigator - “Oracy/Literacy Development in Spanish-Speaking Children” Project 6. National Institute of Child Health and Development, National Institutes of Health. \$785,000 (10/01/00 –09/31/05).

Co-Principal Investigator – “Words in the Mind, Words in the Brain”. Social Sciences and Humanities Research Council, Canada, File# 412-2001-1009 (2002-2007).

Principal Investigator - “Acquisition of Magnetic Source Imaging System for Cognitive and Educational Neuroimaging.” NSF BCS-0116150 \$2,000,000 (09/01/2001 – 08/31/2004)

Principal Investigator- “Clinical Applications of MEG” 4-D Technologies. (Gift) \$100,000 (01/01/00-01/01/01)

Principal Investigator -“Brain Activation Profiles in Dyslexia: A MEG Study”. RO1 HD38346-01A1. \$1,171,995 (9/01/00-6/30/04)

Principal Investigator – “Contributions of MEG to the Surgical Management of Epilepsy”. RO1N537941-01A1 NIH. \$2,674,447 (12/01/1999 – 12/31/2004).

Principal Investigator -“Early Development of Reading Skills: A Cognitive Neuroscience Approach.” Project 2: “Brain Mapping with MEG.” REC-9979968. National Science Foundation. \$564,021 (1999-2002).

Principal Investigator -"Characterization of the P3 Source Using EEG, MEG and MRI". 2 RO1 NS 29540-005A1. National Institutes of Health. \$385,437 (1995-1997).

Principal Investigator -"Characterization of the P3 Source Using EEG, MEG and MRI". DHHS 1 RO1 NS 29540-02. National Institutes of Health. \$499,341 (1991-1994).

Principal Investigator -"MEG Applications to Sensory Physiology and Cognition". Moody Foundation #90-34. \$345,000 (1991 - 1994).

Principal Investigator-“Magnetocardiography System for Noninvasive Three-Dimensional Localization of Arrhythmogenic Tissue”. (Sub-Contract) FICE Code 003652 #126. \$12,126.00 (1993 - 1995).

Principal Investigator -"Establishment of Magnetoencephalography Laboratory". Moody Foundation #87-45. \$1,405,851 (1987 - 1991).

Principal Investigator -"MEG study of reorganization of brain function in aphasics". Mobility Foundation. \$231,535 (1985 - 1990).

Principal Investigator -"Reorganization of brain function in recovery from aphasia". U.S. Department of Education, Institute of Handicapped Research #G008435031. \$277,258; (1984 - 1987).

Principal Investigator -"Efficacy of hyperbaric oxygen therapy in head injury". Moody Foundation #86-84. \$35,325 (1987 - 1990).

Principal Investigator -"MEG probe evoked fields". U.S. Air Force Southeastern Center for Electrical Engineering. \$18,500 (1987 - 1988).

Principal Investigator -"Bergson and modern science". Moody Foundation #83-213. \$14,500 (1983 - 1984).

Principal Investigator -"Bergson and modern science". Harris and Eliza Kempner Fund. \$3,000 (1984).

Co-Investigator -"Development of medical adjunctive treatment for penetrating head injury". Department of Defense, \$247,129 (1987 - 1989).

Co-Investigator -"Comprehensive central nervous system trauma center". NINCDS DHHS NS 9-2314. \$484,838 (1980 - 1986).

Co-Investigator- "Measurement of rCBF and evoked responses in brain injury". Moody Foundation #80-233. \$300,000 (1981 - 1986).

Co-Investigator- "National Traumatic Coma Data Bank Network - Pilot Phase". DHHS NS 9-2308 NINCDS. (1980 - 1982).

Co-Investigator- "National Traumatic Coma Data Bank Network-Main Phase". NINCDS DHHS NS 3-2339. \$1,056,571 (1983 - 1989).

COMMITTEE RESPONSIBILITIES

National and International:

Chairman, The Vivian Smith Advanced Study Institute of the International Neuropsychological Society.

Grant Reviewer, Ministry of Education, Greece.

Ad Hoc Reviewer, **N.I.H./L.C.O.M.**

Special Study Section (Ad Hoc), **N.I.H.**

Special Study Section (Ad Hoc), **N.I.D.A.**

Linguistics Program (Ad Hoc), **N.S.F.**

Medical Research Service (Ad Hoc), **Veteran's Administration**

Chairman, Program Committee, **International Neuropsychological Society** (1988- 1989)

Member, Program Committee, **International Neuropsychological Society** (1985 - 1988, 1992)

Member, Awards Committee, **International Neuropsychological Society** (2000)

Member Consultation Committee, **Development of Graduate Neuroscience Program at the University of Crete Medical School**, Hellenic Republic, Ministry of Education (1998)

Member, Review Committee, **Progress of Graduate Neuroscience Program at the University of Crete Medical School**, Hellenic Republic, Ministry of Education (1999)

Member, Review Committee, **Progress of Graduate Neuroscience Program at the University of Crete Medical School**, Hellenic Republic, Ministry of Education (2005)

Member, Review Committee, **Graduate Program in Cognitive Sciences**, Athens, University, Athens, Greece (2000).

Member, International Advisory Committee, **Biomagnetism** (2006)

The University of Texas-Houston Medical School:

Member, Editorial Board of the Neuroscience Research Center (NRC) Newsletter (2002-)

Member, Faculty Senate, (1996-1997)

The University of Texas Medical Branch:

Advisory Committee, **Neuroscience Graduate Program** (1991-1993)

Curriculum Committee, **Neuroscience Graduate Program** (1989-1991)

Committee on Admissions, **Neuroscience Graduate Program** (1987-1989)

Curriculum Committee, **Neuroscience Graduate Program** (1985-1986)

Committee on Admissions, **Medical School** (1982-1984)

Other:

Doctoral Dissertation Committees, **Neuroscience Graduate Program**, UTMB; Department of Engineering - Biomedical Engineering Program and Department of Psychology, **University of Houston**; Basic Sciences Department, **University of Crete Faculty of Medicine**, **National University of Athens**

Committee for the Promotion of Research, **Xavier University** (1978-1979)

Chairman, Colloquium Committee, **Southern Illinois University** (1975)

MEMBERSHIPS IN SCIENTIFIC SOCIETIES

American Association for the Advancement of Science

American Society of Neurophysiological Monitoring

American Psychological Association - Division 40 (Neuropsychology)

American Psychological Association - Division 1 (General Psychology)

Hellenic Psychological Association

International Neuropsychological Society
New York Academy of Sciences

Society for Psychophysiological Research

ACADEMIC ACTIVITIES

Editorial Advisor:

International Journal of Neuroscience (1987-1996)

Ψυχολογικά Θέματα (Journal of the Hellenic Psychological Association)
(since 1988)

Developmental Neuropsychology (since 1993)

Journal of International Neuropsychological Society -- JINS (since 2004)

Σύναψις (Psychiatry and Neuroscience Review) (since 2005)

Guest Editor:

Journal of Clinical Neurophysiology (March/April 2000)

Journal of Neurolinguistics (Spring 2003)

Ad Hoc Reviewer:

Archives of Neurology (1988-Present)

Electroencephalography and Clinical Neurophysiology (1988-Present)

Brain and Cognition (1990-Present)

Experimental Brain Research (1993-Present)

Cerebral Cortex (1999-Present)

Brain Research Bulletin (1998-Present)

Technical Consultant:

Case Western Reserve University, Cleveland, Ohio (Dr. Dorothy Aram)
(1988-1990)

The University of Texas Health Science Center, Houston (Dr. Jack Fletcher)
(1987-1989)

Armstrong Aerospace Medical Research Laboratory, (Dr. Glenn Wilson) WPAFB (1986-1988)

Organizational Activities:

Establishment of the **International conference on MEG applications** (September 2005)

Establishment of the **First International Workshop on Magnetoencephalography (MEG)**,
(with James Wheless). (November 7-9, 2002)

Establishment of the annual **Vivian Smith Advanced Studies Institute of the International Neuropsychological Society** (2002)

Establishment of the **Division of Clinical Neurosciences** (1995)

Establishment of **Intraoperative Neurophysiology Service** at Hermann Hospital (1993)

Establishment of the **Magnetoencephalography Laboratory** (1987-1988)

International Conference on Epistemology, Galveston, Texas (1984)

Establishment of the **Electrophysiology Laboratory** (1980-1982)

BIBLIOGRAPHY

Books:

1. Papanicolaou, A.C.; Gunter, P.A.Y. (Eds.) *Bergson and Modern Thought: Towards a Unified Science*. New York: Harwood Academic Publishers, 1987.
2. Papanicolaou, A.C. *Emotion: A reconsideration of the somatic theory*. New York: Gordon and Breach and Harwood, 1989.

3. Papanicolaou, A.C. Emoción: Una reconsideración sobre la teoría somática. Monografías de las Revista Española de Neuropsicología, Enero-Junio 2004.
4. Papanicolaou, A.C. Fundamentals of Functional Brain Imaging: A guide to the methods and their applications to psychology and behavioral neurosciences. Netherlands: Swets & Zeitlinger, 1998.
5. Zouridakis, G., and Papanicolaou, A.C. A Concise Guide to Intraoperative Monitoring, CRC Press, December 2000.
6. Papanicolaou, A.C. Plato: Critique of Pragmatism. (Πλάτωνος Ρεόντων Έλεγχος) Αθήνα, Εξάντας 2002.
7. Papanicolaou, A.C. et al. The Amnesias: A Clinical Textbook of Memory Disorders. Oxford University Press, 2006.

Articles in Peer-Reviewed Journals:

1. Papanicolaou, A.C.; Molfese, D.L. Neuroelectrical correlates of hemisphere and handedness factors in a cognitive task. *Brain Lang.* 5(2):236-248, 1978.
2. Papanicolaou, A.C. Cerebral excitation profiles in language processing: The photic probe paradigm. *Brain Lang.* 9(2):269-280, 1980.
3. Papanicolaou, A.C.; Levin, H.S.; Eisenberg, H.M.; Moore, B.D. Evoked potential indices of selective hemispheric engagement in affective and phonetic tasks. *Neuropsychologia* 21(4):401-405, 1983.
4. Papanicolaou, A.C.; Schmidt, A.L.; Moore, B.D.; Eisenberg, H.M. Cerebral activation patterns in an arithmetic and visuospatial processing task. *Int. J. Neurosci.* 20(3-4):283-288, 1983.
5. Papanicolaou, A.C.; Eisenberg, H.M.; Levy, R.S. Evoked potential correlates of left hemisphere dominance in covert articulation. *Int. J. Neurosci.* 20(3-4):289-294, 1983.
6. August, G.J.; Raz, N.; Papanicolaou, A.C.; Davis-Baird, T.; Hirsh, S.L.; Hsu, L.L. Fenfluramine treatment in infantile autism. Neurochemical, electrophysiological, and behavioral effects. *J. Nerv. Ment. Dis.* 172:604-612, 1984.
7. Loring, D.W.; Levin, H.S.; Papanicolaou, A.C.; Larrabee, G.J. Eisenberg, H.M. Auditory evoked potentials in senescent forgetfulness. *Int. J. Neurosci.* 24(2):133-141, 1984.
8. Papanicolaou, A.C.; Johnstone, J. Probe evoked potentials: Theory, method and applications. *Intl. J. Neurosci.* 24:107-131, 1984.

9. Papanicolaou, A.C.; Levin, H.S.; Eisenberg, H.M. Evoked potential correlates of recovery from aphasia after focal left hemisphere injury in adults. *Neurosurgery*, 14(4):412-415, 1984.
10. Papanicolaou, A.C.; Levin, H.S.; Eisenberg, H.M.; Moore, B.D.; Goethe, K.E., High, W.M. Evoked potential correlates of post-traumatic amnesia after closed head injury. *Neurosurgery*, 14:676-678, 1984.
11. Papanicolaou, A.C.; Loring, D.W.; Eisenberg, H.M. Age-related differences in recovery cycle of auditory evoked potentials. *Neurobiol. Aging* 5(4):291-295, 1984.
12. Papanicolaou, A.C.; Loring, D.W.; Eisenberg, H.M. Probe-evoked potential correlates of hemispheric asymmetries during a speech shadowing task. *Int. J. Neurosci.* 28:83-89, 1985.
13. Papanicolaou, A.C.; Loring, D.W.; Eisenberg, H.M. Temporal pattern effects on auditory evoked potentials. *Int. J. Neurosci.* 26(1-2):53-57, 1985.
14. Papanicolaou, A.C.; Loring, D.W.; Eisenberg, H.M. Evoked potential attenuation in the two-tone paradigm. *Intern. J. Psychophysiol.* 3(1):23-28, 1985.
15. Papanicolaou, A.C.; Loring, D.W.; Eisenberg, H.M. Stimulus offset P-3 and temporal resolution of uncertainty. *Intern. J. Psychophysiol.* 3:29-31, 1985.
16. Papanicolaou, A.C.; Loring, D.W.; Raz, N.; Eisenberg, H.M. Relationship between stimulus intensity and the P300. *Psychophysiology*, 22(3):326-329, 1985.
17. Deutsch, G.; Papanicolaou, A.C.; Eisenberg, H.M.; Loring, D.W.; Levin, H.S.; Nusynowitz, M. Cerebral blood flow patterns elicited by visual stimulation and visual memory tasks. *Neuropsychologia*, 24:283-287, 1986.
18. Loring, D.W.; Papanicolaou, A.C.; Meador, K.J.; Eisenberg, H.M. Second prior stimulus interval effects on auditory evoked potentials. *Int. J. Psychophysiol.* 4(3):197-201, 1986.
19. Papanicolaou, A.C.; Loring, D.W.; Deutsch, G.; Eisenberg, H.M. Task-related EEG asymmetries: A comparison of alpha blocking and beta enhancement. *Int. J. Neurosci.* 30(1-2):81-85, 1986.
20. Papanicolaou, A.C.; Loring, D.W.; Eisenberg, H.M.; Raz, N.; Contreras, F.L. Auditory brain stem evoked responses in comatose head injured patients. *Neurosurgery*, 18(2):173-175, 1986.
21. Papanicolaou, A.C.; Raz, N.; Loring, D.W.; Eisenberg, H.M. Brain stem evoked responses suppression during speech production. *Brain Lang.* 27(1):50-55, 1986.

22. Bourbon, W.T.; Will, K.W.; Gary, Jr., H.E.; Papanicolaou, A.C. Habituation of auditory event-related potentials: A comparison of self-initiated and auto-mated stimulus trains. *Electroencephalogr. Clin. Neurophysiol.* 66:160-166, 1987.
23. Narici, L.; Romani, G.L.; Salustri, C.; Pizzella, V.; Modena, I.; Papanicolaou, A.C. Neuromagnetic evidence of synchronized spontaneous activity in the brain following repetitive sensory stimulation. *Int. J. Neurosci.* 32(3-4):831-836, 1987.
24. Papanicolaou, A.C.; Moore, B.D.; Levin, H.S.; Eisenberg, H.M. Evoked potential correlates of right hemisphere involvement in language recovery following stroke. *Arch. Neurol.* 44(5):521-524, 1987.
25. Papanicolaou, A.C.; Deutsch, G.; Bourbon, W.T.; Will, K.W.; Loring, D.W.; Eisenberg, H.M. Convergent evoked potentials and cerebral blood flow evidence of task-specific hemispheric differences. *Electroencephalogr. Clin. Neurophysiol.* 66(6):515-520, 1987.
26. Loring, D.W., Papanicolaou, A.C. Memory assessment in neuropsychology: theoretical considerations and practical utility. *J. Clin. Exp. Neuropsychol.* 9(4):340-358, 1987.
27. Deutsch, G.; Papanicolaou, A.C.; Bourbon, T.; Eisenberg, H.M. Cerebral blood flow evidence of right frontal activation in attention demanding tasks. *Int. J. Neurosci.* 36(1-2):23-28, 1987.
28. Deutsch, G.; Bourbon, W.T.; Papanicolaou, A.C.; Eisenberg, H.M. Visuospatial tasks compared via activation of regional cerebral blood flow. *Neuropsychologia*, 26(3):445-452, 1988.
29. Papanicolaou, A.C.; Wilson, G.F.; Busch, C.; DeRego, P.; Orr, C.; Davis, I.; Eisenberg, H.M. Hemispheric asymmetries in phonetic processing assessed with probe evoked magnetic fields. *Int. J. Neurosci.* 39:275-281, 1988.
30. Samra, S.K.; Bradshaw, E.G.; Pandi, S.K.; Papanicolaou, A.C.; Moore, B.D. The relation between lorazepam-induced auditory amnesia and auditory evoked potentials. *Anesth. Analg.* 67(6):526-533, 1988.
31. Moore, B.D., Papanicolaou, A.C. Dichotic listening evidence of right hemisphere involvement in recovery from aphasia following stroke. *J. Clin. Exp. Neuropsychol.* 10(4):380-386, 1988.
32. Papanicolaou, A.C.; Moore, B.D.; Deutsch, G.; Levin, H.S.; Eisenberg, H.M. Evidence for right hemisphere involvement in recovery from aphasia. *Arch. Neurol.* 45(9):1025-1029, 1988.
33. Papanicolaou, A.C.; Moore, B.D.; Gary, H.E. Selective attention effects on somatosensory evoked potentials. *Int. J. Neurosci.* 45:277-282, 1989.

34. Papanicolaou, A.C.; Baumann, S.; Rogers, R.; Saydjari, C.; Amparo, E.G.; Eisenberg, H.M. Localization of auditory response sources using MEG and MRI. *Arch. Neurol.* 47:33-37, 1990.
35. Rogers, R.L.; Papanicolaou, A.C.; Baumann, S.B.; Eisenberg, H.M.; Saydjari, C. Spatially distributed cortical excitation patterns of auditory processing during contralateral and ipsilateral stimulation. *J. Cogn. Neurosci.* 2:44-50, 1990.
36. Papanicolaou, A.C.; DiScenna, A.; Gillespie, L.; Aram, D.M. Probe evoked potential findings following unilateral left hemisphere lesions in children. *Arch. Neurol.* 47(5):562-566, 1990.
37. Papanicolaou, A.C.; Rogers, R.L.; Baumann, S.B.; Saydjari, C.; Eisenberg, H.M. Source localization of two evoked magnetic field components using two alternative procedures. *Exp. Brain Res.* 80(1):44-48, 1990.
38. Rogers, R.L.; Papanicolaou, A.C.; Baumann, S.B.; Saydjari, C., Eisenberg, H.M. Neuromagnetic evidence of a dynamic pattern generating the N100 auditory response. *Electroencephal. Clin. Neurophysiol.* 77(3):237-240, 1990.
39. Baumann, S.B.; Rogers, R.L.; Papanicolaou, A.C.; Saydjari, C. Intersession replicability of dipole parameters from three components of the auditory evoked magnetic field. *Brain Topography*, 3(2):311-319, 1990.
40. Papanicolaou, A.C. & Simos, P.G.: Evoked potential and dichotic listening correlates of right hemisphere involvement in language restitution following left hemisphere injury. *Psychological Issues (Ψυχολογικά Θέματα)*, 3, 5-25: 1990.
41. Baumann, S.B.; Rogers, R.L.; Guinto, F.C.; Saydjari, C.; Papanicolaou, A.C., Eisenberg, H.M. Gender differences in source location for the N100 auditory magnetic field. *Electroencephal. Clin. Neurophysiol.* 80(1):53-59, 1991.
42. Rogers, R.L.; Baumann, S.B.; Papanicolaou, A.C.; Bourbon, T.W.; Alagarsamy, S.; Eisenberg, H.M. Localization of P3 sources using magnetoencephalography and magnetic resonance imaging. *Electroencephal. Clin. Electrophysiol.* 79(4):308-321, 1991.
43. Eisenberg, H.M.; Papanicolaou, A.C.; Baumann, S. B.; Rogers, R. L.; Brown, L.M. Magnetoencephalographic localization of interictal spike sources: A case report. *J. Neurosurg.* 74(4):660-664, 1991.
44. Moore, B.D. III; Papanicolaou, A.C. Dichotic listening in aphasics: response to Niccum and Speaks. *J. Clin. Exp. Neuropsychol.* 14(4):641-645, 1992.

45. Rogers, R.L.; Papanicolaou, A.C.; Baumann, S.B.; Eisenberg, H.M. Late magnetic fields and positive evoked potentials following infrequent and unpredictable omissions of visual stimuli. *Electroencephalogr. Clin. Neurophysiol.* 83(2):146-152, 1992.
46. Rogers, R.L.; Basile, L.F.H.; Papanicolaou, A.C.; Bourbon, T.W.; Eisenberg, H.M. Visual evoked magnetic fields reveal activity in the superior temporal sulcus. *Electroencephalogr. Clin. Neurophysiol.* 86(5):344-347, 1993.
47. Rogers, R.L.; Basile, L.F.H.; Papanicolaou, A.C.; Eisenberg, H. M. Magnetoencephalography reveals two distinct sources associated with late positive evoked potentials during visual odd-ball tasks. *Cerebral Cortex*, 3:163-169, 1993.
48. Ioannides, A.A.; Singh, K.D.; Hasson, R.; Baumann, S.B.; Rogers, R.L.; Guinto, F.C.; Papanicolaou, A.C. Comparison of single current dipole and magnetic field tomography analyses of the cortical response to auditory stimuli. *Brain Tomography*, 6(1):27-34, 1993.
49. Basile, L.F.H.; Rogers, R.L.; Bourbon, W.T.; Papanicolaou, A.C. Slow magnetic flux from human frontal cortex. *Electroencephalography and Clinical Neurophysiology*, 90:157-165, 1994.
50. Rogers, R.L.; Basile, L.F.H.; Taylor, S.; Sutherling, W.W.; Papanicolaou, A.C. Somatosensory evoked fields and potentials following tibial nerve stimulation. *Neurology*, 44:1283-1286, 1994.
51. Papanicolaou, A.C. An introduction to magnetoencephalography with some applications. *Brain and Cognition*, 27: 331-352, 1995.
52. Schiffer, F., Teicher, M.H., Papanicolaou, A.C. Evoked potential evidence for right brain activity during the recall of traumatic memories. *The Journal of Neuropsychiatry and Clinical Neurosciences*, 7:169-175, 1995.
53. Tarkka, I.M.; Stokic, D.S.; Basile, L.F.H.; Papanicolaou, A.C. Electric source localization of the auditory P300 agrees with magnetic source localization. *Electroencephalography and Clinical Neurophysiology*, 96:538-545, 1995.
54. Breier, J.I.; Plenger, P.M.; Wheless, J.W.; Thomas, A.B.; Brookshire, B.L., Curtis, V.L.; Wilmore, L.J.; Papanicolaou, A.C.; Clifton, G.L. Memory tests distinguish between patients with focal temporal and extra temporal lobe epilepsy. *Epilepsia*, 37(2):165-170, 1996.
55. Plenger, P.M.; Breier, J.I.; Wheless, J.W.; Papanicolaou, A.C.; Brookshire, B.L.; Thomas, A.B.; Curtis, V.; Wilmore, L.J. Nonverbal selective reminding test: Efficacy in the assessment of adults with temporal lobe epilepsy. *Journal of Epilepsy*, 9:65-69, 1996.

56. Plenger, P.M.; Breier, J.I.; Wheless, J.W.; Ridley, T.D.; Papanicolaou, A.C.; Brookshire, B.L.; Thomas, A.B.; Curtis, V.; Wilmore, L.J. Lateralization of memory for music: Evidence from the intracarotid sodium amobarbital procedure. *Neuropsychologia*, 34(10):1015-1018, 1996.
57. Breier, J.I.; Plenger, P.M.; Fuchs, K.; Castillo, R.; Wheless, J.I.; Thomas, A.B.; Brookshire, B.L.; Curtis, V.L.; Wilmore, L.J.; Papanicolaou, A.C. Effects of temporal lobe epilepsy on spatial and figural memory for a complex geometric figure. *Journal of the International Neuropsychological Society*, 2(1):535-540, 1996.
58. Basile, L.F.H.; Simos, P.G.; Tarkka, I.M.; Brunder, D.G.; Papanicolaou, A.C. Task-specific magnetic fields from the left human frontal cortex. *Brain Topography*, 9(1):31-37, 1996.
59. Basile, L.F.H.; Rogers, R.L.; Simos, P.G.; Papanicolaou, A.C. Magnetoencephalographic evidence for common sources of long latency fields to rare target and rare novel visual stimuli. *International Journal of Psychophysiology*, 25:123-137, 1997.
60. Breier, J.I.; Mullani, N.A.; Thomas, A.B.; Wheless, J.W.; Plenger, P.M.; Gould, K.L.; Papanicolaou, A.C.; Wilmore, L.J. Effects of duration of epilepsy on the uncoupling of metabolism and blood flow in complex partial seizures. *Neurology*, 48(4):1047-1053, 1997.
61. Breier, J.I.; Brookshire, B.L.; Fletcher, J.M.; Plenger, P.M.; Wheless, J.W.; Thomas, A.B.; Papanicolaou, A.C.; Wilmore, L.J. Identification of side of seizure onset in temporal lobe epilepsy using memory tests in the context of reading deficit. *Journal of Clinical and Experimental Neuropsychology*, 19(2): 161-171, 1997.
62. Awada, K.A.; Jackson, D. R.; Williams, J.T.; Wilton, D.R.; Baumann, S. B., Papanicolaou, A.C. Computational aspects of FEM modeling in EEG source localization. *I.E.E.E. Trans. Biomedical Engineering*, 44: 736-752, 1997.
63. Zouridakis, G.; Papanicolaou, A.C.; Simos, P.G. Intraoperative Monitoring I: General overview. *Journal of Clinical Engineering*, 22: 316-320, 1997.
64. Zouridakis, G.; Papanicolaou, A.C.; Simos, P.G. Intraoperative Monitoring II: Neurophysiological background. *Journal of Clinical Engineering*, 22: 321-327, 1997.
65. Simos, P.G.; Basile, L.F.H.; Zouridakis, G.; Papanicolaou, A.C. Source localization of the N400 response in a sentence-reading paradigm using evoked magnetic fields and magnetic resonance imaging. *Brain Research*, 762: 29-39, 1997.
66. Breier, J.I.; Plenger, P.M.; Wheless, J.W.; Thomas, A.B.; Brookshire, B.L.; Papanicolaou, A.C.; Wilmore, L.J. Asymmetries in the effect of side of seizure onset on recognition memory following intracarotid amobarbital injection. *Epilepsia*, 38(11): 1209-1215, 1997.

67. Basile, L.F.H.; Brunder, D.G.; Tarkka, I.M., Papanicolaou, A.C. Magnetic fields from human prefrontal cortex differ during two recognition tasks. *International Journal of Psychophysiology*, 27: 29-41, 1997.
68. Zouridakis, G.; Simos, P.G.; Papanicolaou, A.C. Multiple bilaterally asymmetric cortical sources account for the auditory N1m component. *Brain Topography*, 10: 183-189, 1998.
69. Simos, P.G.; Breier, J.I.; Zouridakis, G.; Papanicolaou, A.C. Magnetic fields elicited by a tone onset continuum in humans. *Cognitive Brain Research*, 6: 285-294, 1998.
70. Zouridakis, G.; Papanicolaou, A.C.; Simos, P.G. Intraoperative neurophysiological monitoring--part III: Analysis of spontaneous activity. *Journal of Clinical Engineering*, 23: 223-231, 1998.
71. Simos, P.G., Breier, J.I., Zouridakis, G., Papanicolaou, A.C. MEG correlates of categorical-like temporal cue perception in humans. *Neuroreport* 9, No. 113:2475-2479, 1998.
72. Zouridakis, G., Simos, P.G., Breier, J.I., Papanicolaou, A.C. Functional hemispheric asymmetry assessment in a visual language task. *Brain Topography*, 11:57-65, 1998.
73. Simos, P.G., Breier, J.I., Zouridakis, G., Papanicolaou, A.C. Assessment of cerebral dominance for language using magnetoencephalography. *Journal of Clinical Neurophysiology*, 15:364-372, 1998.
74. Simos, P.G., Breier, J.I., Zouridakis, G., Papanicolaou, A.C. Identification of language-specific brain activity using magnetoencephalography. *Journal of Experimental and Clinical Neuropsychology*, 20:706-722, 1998.
75. Simos, P.G., Diehl, R., Breier, J.I., Molis, M., Zouridakis, G., Papanicolaou, A.C. MEG correlates of categorical perception of a voice onset continuum in humans. *Cognitive Brain Research*, 7:215-219, 1998.
76. Breier, J.I., Simos, P.G., Zouridakis, G., Constantinou, J.C., Papanicolaou, A. C. Relative timing of neuronal activity in distinct temporal lobe areas during a recognition task for words. *Journal of Clinical and Experimental Neuropsychology*, 20(6): 782-90, 1998.
77. Papanicolaou, A.C., Simos, P.G., Zouridakis, G., & Kataki, M.: Mapping of receptive language mechanisms using magnetoencephalography. *Egephalos (Περιοδικό Εγκέφαλος)*, 36, 120-135: 1999.
78. Papanicolaou, A.C., Simos, P.G., Breier, J.I., Zouridakis, G., Wilmore, L.J., Wheless, J.W., Constantinou, J.C., Gormley, W., Maggio, W.W. Magnetoencephalographic mapping of the language specific cortex. *Journal of Neurosurgery*, 90(1):85-93, 1999.

79. Simos, P.G., Breier, J.I., Maggio, W.W., Gormley, W., Zouridakis, G., Wilmore, L.J., Wheless, J.W., Papanicolaou, A.C. Atypical temporal lobe language representation: MEG and intraoperative stimulation mapping correlation. *Neuroreport*, 10:139-142, 1999.
80. Zouridakis, G.; Simos, P.G.; Papanicolaou, A.C.; Breier, J.I. Magnetic Source Imaging: An introduction and application examples. *Journal of Clinical Engineering*, 24:51-61, 1999.
81. Zouridakis, G., Papanicolaou, A.C., Simos, P.G. Intraoperative electrophysiological monitoring IV. Analysis of evoked activity. *Journal of Clinical Engineering*, 24(5):309-319, 1999.
82. Simos, P.G.; Papanicolaou, A.C.; Breier, J.I.; Wilmore, L.J.; Wheless, J.W.; Constantinou, J.C.; Gormley, W.; Maggio, W.W. Localization of language-specific cortex using MEG and intraoperative stimulation mapping. *Journal of Neurosurgery*, 91:787-796, 1999.
83. Zouridakis, G.; Papanicolaou, A.C.; Simos, P.G. Intraoperative neurophysiological monitoring: Part V: Surgery or Spinal Disorders. *Journal of Clinical Engineering*, 24(6):372-379, 1999.
84. Breier, J.I.; Simos, P.G.; Zouridakis, G.; Wheless, J.W.; Wilmore, L.J.; Constantinou, J.C.; Papanicolaou, A.C. A magnetoencephalography study of cortical plasticity. *Neurocase*, 5(4): 277-284, 1999.
85. Breier, J.I.; Simos, P.G.; Zouridakis, G.; Papanicolaou, A.C. Temporal course of regional activation associated with phonological decoding. *Journal of Clinical and Experimental Neuropsychology*, 21(4):465-476, 1999.
86. Wheless, J.W., Wilmore, L.J., Breier, J.I., Kataki, M., Smith, J.R., King, D.W., Meador, K.J., Park, Y.D., Loring, D.W., Clifton, G.L., Baumgartner, J., Thomas, A.B., Constantinou, J.E.C., Papanicolaou, A.C. A comparison of magnetoencephalography, MRI, and V-EEG in patients evaluated for epilepsy surgery. *Epilepsia*, 40(7):931-41, 1999.
87. Breier, J.I.; Simos, P.G.; Zouridakis, G.; Papanicolaou, A.C. Lateralization of cerebral activation in verbal and non-verbal recognition memory tasks using magnetoencephalography. *Brain Topography*, 12(2):89-97, 1999.
88. Breier, J.I.; Simos, P.G.; Zouridakis, G.; Wheless, J.W.; Wilmore, L.J.; Constantinou, J.C.; Maggio, W.W.; Papanicolaou, A.C. Language dominance determined by magnetic source imaging: A comparison with the Wada procedure. *Neurology*, 53(5):938-945, 1999.

89. Zouridakis, G.; Simos, P.G.; Papanicolaou, A.C. Intraoperative neurophysiological monitoring: Part VI: Cranial surgery. *Journal of Clinical Engineering*, 25(1):54-64, 2000.
90. Simos, P. G., Papanicolaou, A.C., Breier, J.I., Fletcher, J.M., Wheless, J.W., Maggio, W.W., Gormley, W., Constantinou, J.C. Insights into Brain Function and Neural Plasticity using Magnetic Source Imaging. *Journal of Clinical Neurophysiology*, 17(2) 143-162, 2000.
91. Simos, P.G., Breier, J.I., Fletcher, J.M., Bergman, E., & Papanicolaou, A.C. Cerebral mechanisms involved in word reading in dyslexic children: A Magnetic Source Imaging approach. *Cerebral Cortex*, 10(8):809-816, 2000.
92. Simos, P.G.; Papanicolaou, A.C. Applications of magnetoencephalography for imaging brain activation associated with language function. *Psychologia (Περιοδικό Ψυχολογία)* 7 (2): 240-257, 2000.
93. Breier, J.I., Simos, P.G., Zouridakis, G., & Papanicolaou, A.C. Lateralization of activity associated with language function using Magnetoencephalography: A reliability study. *Journal of Clinical Neurophysiology*, 17(5):503-510, 2000.
94. Simos, P.G., Breier, J.I., Wheless, J.W., Maggio, W.W., Fletcher, J.M., Castillo, E.M, Papanicolaou, A.C. Brain mechanisms for reading: The role of the superior temporal gyrus in word and pseudoword naming. *Neuroreport*, 11, 2443-2447: 2000.
95. Simos, P.G., Papanicolaou, A.C., Breier, J.I., Fletcher, J.M., Foorman, B.R., Bergman, E., Fishbeck, K., & Papanicolaou, A.C. Brain activation profiles in dyslexic children during nonword reading: A magnetic source imaging study. *Neuroscience Letters*, 290, 61-65: 2000.
96. Breier, J.I., Simos, P.G., Wheless, J.W., Constantinou, J.E.C., & Papanicolaou, A.C. Language dominance in children determined by magnetic source imaging and the Intracarotid Amobarbital Procedure: A Comparison. *Journal of Child Neurology*, 16(2): 124-130, 2001.
97. Van Horn, G., Hassenbusch, S.J., Zouridakis, G., Nizar, A.M., Wilde, M.C., Papanicolaou, A.C. Pallidotomy: A comparison of responders to non-responders. *Neurosurgery*, 48:263-273; 2001.
98. Papanicolaou, A.C., Simos, P.G., Breier, J.I., Wheless, J.W., Mancias, P., Baumgartner, J.E., Maggio, W.W., Gormley, W., Constantinou, J.E.C., & Butler, I.I. Brain plasticity for sensory and linguistic functions: A functional imaging study using MEG with children and young adults. *Journal of Child Neurology*, 16: 241-252; 2001.
99. Simos, P.G., Breier, J.I., Fletcher, J.M., Foorman, B.R., Mouzaki, A., & Papanicolaou, A.C. Age-related changes in regional brain activation during

- phonological decoding and printed word recognition. *Developmental Neuropsychology*, 19(2):191-210; 2001.
100. Castillo, E.M., Simos, P.G., Davis, R.N., Breier, J.I., Fitzgerald, M.E., & Papanicolaou, A.C. Levels of word processing and incidental memory: Dissociable mechanisms in the temporal lobe. *Neuroreport*, 12(16): 3561-3566, 2001.
 101. Simos, P.G., Castillo, E.M., Fletcher, J.M., Francis, D.J., Maestu, F., Breier, J.I., Maggio, W.W., & Papanicolaou, A.C. Mapping of receptive language cortex in bilinguals using Magnetic Source Imaging. *Journal of Neurosurgery*, 95:76-81, 2001.
 102. Castillo, E.M., Simos, P.G., Venkataraman, M.D., Breier, J.I., Wheless, J.W., Papanicolaou, A.C. Mapping of expressive language cortex using Magnetic Source Imaging. *Neurocase*, 7(5):419-422, 2001.
 103. Simos, P.G., Breier, J.I., Fletcher, J.M., Foorman, B.R., Castillo, E.M., and Papanicolaou, A.C. Brain mechanisms for reading words and pseudowords: An integrated approach. *Cerebral Cortex*, 12(3):297-305, 2002.
 104. Ishibashi, H., Simos, P.G., Castillo, E.M., Maggio, W.W., Wheless, J.W., Kim, H.L., Venkataraman, V., Sanders, D.K., Breier, J.I., Zhang, W., Davis, R.N., Papanicolaou, A.C. Detection and significance of focal, interictal slow wave activity visualized by Magnetoencephalography for localization of a primary epileptogenic region. *Journal of Neurosurgery*, 96(4):724-730: April 2002.
 105. Simos, P.G., Breier, J.I., Fletcher, J.M., Bergman, E., Foorman, B.R., Castillo, E.M., Davis, R.N., Fitzgerald, M.E., and Papanicolaou, A.C. Dyslexia-specific brain activation profile becomes normal following successful remedial training. *Neurology*, 58(8):1203-1213, May 2002.
 106. Ishibashi, H., Simos, P.G., Fletcher, J.M., Wheless, J.W., Baumgartner, J., Kim, H.L., Davis, R.N., Zhang, W., & Papanicolaou, A.C. Multimodality functional imaging evaluation in a patient with Rasmussen's Encephalitis. *Brain and Development*, 24(4):239-244, June 2002.
 107. Ishibashi, H., Simos, P.G., Wheless, J.W., Zhang, W., Baumgartner, J.E., Castillo, E.M., Papanicolaou, A.C. Somatosensory evoked magnetic field in Hemimegalencephaly. *Neurological Research*, 24: 459-462, July 2002.
 108. Papanicolaou, A.C., Simos, P.G., Castillo, E. M., Breier, J.I., Katz, J.S., and Wright, A.A. The Hippocampus and memory of verbal and pictorial material. *Learning & Memory*, 9(3): 99-104, May-June 2002.
 109. Ishibashi, H., Simos, P.G., Wheless, J.W., Baumgartner, J.E., Kim, H.L., Castillo, E.M., Davis, R.N., and Papanicolaou, A.C. Localization of ictal and interictal bursting epileptogenic activity in focal cortical dysplasia: Agreement of

- Magnetoencephalography and electrocorticography. *Neurological Research*, 24(6):525-30, September 2002.
110. Sarkari S., Simos P.G., Breier J.I., Fletcher, J.M., Castillo, E.M., & Papanicolaou, A.C. Contributions of Magnetic Source Imaging to the understanding of dyslexia. *Seminars in Pediatric Neurology*, 9:3 229-238, 2002.
 111. Leon-Carion, J., Simos, P.G., Breier, J.I., & Zouridakis, G., Papanicolaou, A.C. Imágenes de activación funcional cerebral a través de medidas de fuentes magnéticas: Aplicaciones de la magnetoencefalografía a la Neuropsicología (Functional brain imaging through magnetic fields: Applications of Magnetoencephalography in neuropsychology) *Revista de Psicología General y Aplicada (Spain)*, 55, 105-112: 2002.
 112. Papanicolaou, A.C., Simos, P.G., Zouridakis, G., Katakaki, M. The brain mechanisms of receptive language imaging through magnetoencephalography. *Egkefalos*, 36, 120-135, 1999.
 113. Zhang, W., Qi, J., Papanicolaou, A.C. Functional Neuroimaging--Application of Magnetoencephalography on Language Mapping, *Guo Wai Yi Xue Fang She Xue Fen Ce (Chinese) Foreign Medical Sciences Clinical Radiology Fascicle*, 25(4):212-215, 2002.
 114. Simos, P.G., Papanicolaou, A.C., Breier, J.I., Fletcher, J.M., Wheless, J.W., Maggio, W.W. & Constantinou, J.C. (2001). Aproximación a la función cerebral a través de la imagen de fuente magnética: aplicaciones clínicas y experimentales (Insights into Brain Function through Magnetic Source Imaging: A Review of Research and Clinical Applications). *Revista de Neurología*, 34:871-876, 2002.
 115. Zouridakis, G.: Papanicolaou, A.C.; Simos, P.G. Intraoperative neurophysiological monitoring: Part VII: Artifacts and troubleshooting. *Journal of Clinical Engineering*, 22(5):316-320, 1997.
 116. Papanicolaou, A.C., Simos, P.G., Breier, J.I., Fletcher, J.M., Foorman, B.R., Francis, D.J., Castillo, E.M., Davis, R. Brain Mechanisms for Reading in Children with and without Dyslexia: A Review of Studies of Normal Development and Plasticity. *Developmental Neuropsychology* 24(2-3), 593-612: 2003.
 117. Simos, P.G., Papanicolaou, A.C., Breier, J.I., Fletcher, J.M., Wheless, J.W., Maggio, W.W. & Constantinou, J.C. Insights into Brain Function through Magnetic Source Imaging: Research and Clinical Applications. *Revista de Neurología (Spain)*, 34(9):871-6, May 2002.
 118. Simos, P.G., Fletcher, J.M. Foorman, B.R., Francis, D.J., Castillo, E.M., Davis, R.N., Fitzgerald, M.E., Mathes, P.G., Denton, C., and Papanicolaou, A.C. Brain activation profiles during the early stages of reading acquisition. *Journal of Child Neurology*, 17(3):159-63. March 2002.

119. Zhang W., Simos P.G., Ishibashi H., Wheless J.W., Castillo, E.M., Maggio W.W., Baumgartner, J.E., Breier, J.I., Sarkari, S., and Papanicolaou, A.C. Multimodality neuroimaging evaluation improves the detection of subtle cortical dysplasia associated epilepsy. *Neurological Research*, 25(1):53-57, January 2003.
120. Maestu, F., Arrazola, J., Fernandez, A., Simos, P.G., Amo, C., Gil-Gregorio, P., Fernandez, S., Papanicolaou, A., Ortiz, T. Do cognitive patterns of brain magnetic activity correlate with hippocampal atrophy in Alzheimer's disease? *Journal of Neurology, Neurosurgery and Psychiatry*, 74(2):208-212, February 2003.
121. Castillo, E.M., Simos, P.G., Davis, R.N., Breier, J.I., Fitzgerald, M.E., & Papanicolaou, A.C. Temporal dynamics of medial temporal lobe activation during encoding and recognition. *Spanish Review of Neuropsychology*, 5, 2:99-120, 2003.
122. Zhang, W., Simos, P.G., Ishibashi, H., Wheless, J.W., Castillo, E.M., Breier, J.I., Baumgartner, J.E., Fitzgerald, M.E., Papanicolaou, A.C. The Neuroimaging features of Epidermal Nevus Syndrome, *AJNR*, 24(7):1468-1470, 2003.
123. Papanicolaou, A.C., Simos, P.G., Castillo, E.M., Breier, J.I., Davis, R.N., Diehl, R.L. Differential brain activation patterns during perception of voice and tone onset time series: a MEG study. *NeuroImage*, 18(2):448-59, 2003.
124. Breier, J.I., Simos, P.G., Fletcher, J.M., Castillo, E.M., Zhang, W., & Papanicolaou, A.C. Abnormal activation of temporoparietal language areas during phonetic analysis in children with dyslexia. *Neuropsychology*, Oct, 17(4):610-621, 2003.
125. Billingsley, R.B., Simos, P.G., Castillo, E.M., Maestu, F., Sarkari, S., Breier, J.I., Papanicolaou, A.C. Functional Brain imaging of language: Criteria for scientific merit and supporting data from Magnetic Source Imaging. *Journal of Neurolinguistics*, 16(4-5):255-275, July-September 2003.
126. Papanicolaou, A.C., Billingsley, R.L. Functional neuroimaging contributions to neurolinguistics. *Journal of Neurolinguistics*, 16(4-5):251-254, July-September 2003.
127. Billingsley, R.L., Simos, P.G., & Papanicolaou, A.C. Reliability and validity of functional neuroimaging techniques for identifying language-critical areas in children and adults. *Developmental Neuropsychology*, 26(2):541-563, 2004.
128. Παπανικολάου, Α.Κ., Εφαρμογές της Μαγνητοεγκεφαλογραφίας στις Γνωσιακές Νευροεπιστήμες. Εντός Εκτός και επι της Ψυχιατρικής, 2003.
129. Παπανικολάου, Α.Κ., Το Υλικόν των Συναισθημάτων Αίτιον. Νεύσις (υπό έκδοση)
130. Παπανικολάου, Α.Κ., Υπέρβαση του Καρτεσιανού Αδιεξόδου. Εντός Εκτός και επί της Ψυχιατρικής (θπό έκδοση).

131. Παπανικολάου Α. Κ. Αφιέρωμα: Εγκέφαλος και Συνείδηση. Σύγχρονα Θέματα 2004, 87 31-91
132. Παπανικολάου Α. Κ. Σύγχρονες Απεικονιστικές Μέθοδοι Διερευνησεως της Γλώσσας. Οι συναντήσεις της Κοζάνης. Σύναψις. 2005, Φθινόπωρο, 50-57
133. Billingsley, R.L., Simos, P.G., Sarkari, S., Fletcher, J.M., & Papanicolaou, A.C. Spatio-temporal brain activation profiles associated with line bisection judgments and double simultaneous visual stimulation. Behavioural Brain Research, 152(1):97-107, 2004.
134. Papanicolaou, A.C., McManis, M.H., Castillo, E.M., Clear, T., Leon-Carrion, J. Brain mechanisms of emotion: Preliminary Magnetoencephalographic findings. Annals of General Hospital Psychiatry. (In Press).
135. Castillo, E.M., Simos, P.G., Wheless, J.W., Baumgartner, J.E., Breier, J.I., Billingsley, R.L., Sarkari, S., Fitzgerald, M.E., Papanicolaou, A.C. Integrating sensory and motor mapping in a comprehensive MEG protocol: Clinical validity and replicability. Neuroimage, 21(3):973-83, 2004.
136. Valaki CE, Maestu F, Simos PG, Zhang W, Fernandez A, Amo C, Ortiz T, Papanicolaou AC. Cortical organization for receptive language functions in Chinese, English and Spanish: A cross-linguistic MEG study. Neuropsychologia, 42(7):967-79, 2004.
137. Wheless, J.W., Castillo, E., Maggio, V., Kim, H., Breier, J.I., Simos, P.G., Papanicolaou, A.C. Magnetoencephalography (MEG) and Magnetic Source Imaging (MSI). The Neurologist, 10(3):1-16, 2004.
138. Pataraiia, E., Simos, P.G., Castillo, E.M., Billingsley, R.L., Sarkari, S., Wheless, W., Maggio, V., Maggio, W., Baumgartner, J., Swank, P.R., Breier, J.I., Papanicolaou, A.C., Does Magnetoencephalography add to scalp video-EEG as a diagnostic tool in epilepsy surgery? Neurology, 62(6):943-8, 2004.
139. Maestu, F., Saldana, C., Amo, C., Gonzalez-Hidalgo, M., Fernandez, A., Fernandez, S., Mata, P., Papanicolaou, A., Ortiz, T. Can small lesions induce language reorganization as large lesions do? Brain and Language, 89:433-438, 2004.
140. Billingsley, R.L., Simos, P.G., Castillo, E.M., Sarkari, S., Breier, J.I., Pataraiia, E., Papanicolaou, A.C. Spatio-temporal cortical dynamics of phonemic and semantic fluency. Journal of Clinical & Experimental Neuropsychology, 26(8):1031-43, 2004.
141. Papanicolaou, A.C., Simos, P.G., Castillo, E.M., Breier, J.I., Sarkari, S., Pataraiia, E., Billingsley, R.L., Buchanan, S., Wheless, J., Maggio, V., Maggio, W.W. Magnetoencephalography: A non-invasive alternative to the Wada procedure. Journal of Neurosurgery, 100(5):867-876, 2004.

142. Valaki, C.E., Maestu, F., Simos, P.G., Ortiz, T. and Papanicolaou, A.C. Contributions of Magnetoencephalography to Neurolinguistics: Evidence from cross-linguistic studies. *Hellenic Journal of Psychology*, 1:268-281, 2004.
143. Pataraiia, E., Simos, P.G., Castillo, E.M., Billingsley-Marshall, R.L., McGregor, A.L., Breier, J.I., Sarkari, S., and Papanicolaou, A.C. Reorganization of language-specific cortex in patients with lesions or mesial temporal epilepsy. *Neurology*, 63(10):1825-32, 2004.
144. Simos, P.G., Fletcher, J.M., Sarkari, S., Billingsley, R.L., Francis, D.J., Castillo, E.M., Pataraiia, E., Denton, C., Papanicolaou, A.C. Early development of neurophysiological processes involved in normal reading and reading disability. *Neuropsychology*, 19(6): 787-98, 2005.
145. Castillo, E.M., and Papanicolaou, A.C. Cortical representation of dermatomes: MEG derived maps recorded after tactile stimulation. *Neuroimage*, 25(3): 727-33, 2005.
146. Breier, J.I., Castillo, E.M., Boake, C., Billingsley, R.L., Maher, L.M., Francisco, G.E., Papanicolaou, A.C. Spatiotemporal patterns of language-specific brain activity using magnetoencephalography in patients with chronic aphasia after stroke. *Neuroimage*, 23(4):1308-1316, 2004.
147. Simos, P.G., Billingsley-Marshall, R.L., Sarkari, S., Pataraiia, E., Papanicolaou, A.C. Brain mechanisms supporting distinct languages. *Journal of Learning Disabilities Research and Practice*, 20:31-38, 2005.
148. Pataraiia, E., Billingsley-Marshall, R.L., Castillo, E.M., Breier, J.I., Simos, P.G., Sarkari, S., Fitzgerald, M., Clear, T., Papanicolaou, A.C. Organization of receptive language-specific cortex before and after left temporal lobectomy. *Neurology*, 64(3):481-7, 2005.
149. Pataraiia, E., Simos, P.G., Billingsley-Marshall, R.L., Sarkari, S., Castillo, E.M., Swank, P.R., Breier, J.I., Wheless, J.M., & Papanicolaou AC. Effects of lesion type on the development of the brain mechanism for receptive language function: A magnetoencephalography study. *Neurology*, (In Press).
150. Σίμος, Π.Γ., Μουζάκη, Α., & Παπανικολάου, Α.Κ. Η λειτουργία της ανάγνωσης και οι διαταραχές της. Η συμβολή των μεθόδων λειτουργικής απεικόνισης του εγκεφάλου. *Hellenic Journal of Psychology*, 1(1):56-78, 2004.
151. Breier, J.I., Castillo, E.M., Simos, P.G., Billingsley-Marshall, R.L., Pataraiia, E., Sarkari, S., Wheless, J.W., Papanicolaou, A.C. Atypical language representation in patients with chronic seizure disorder and achievement deficits using magnetoencephalography. *Epilepsia*, 46(4):540-8, 2005.
152. Papanicolaou, A.C., Pataraiia, E., Billingsley-Marshall, R., Castillo, E.M., Wheless, J.W., Swank, P., Breier, J.I., Sarkari, S., Simos, P.G. Toward the substitution of invasive

- Electroencephalography in epilepsy surgery. *Journal of Clinical Neurophysiology*, 22(4):231-7, 2005.
153. Papanicolaou, A.C., Castillo, E.M., Billingsley-Marshall, R., Patariaia, E., Simos, P.G. A review of clinical applications of magnetoencephalography. *International Review of Neurobiology*, 68:233-247, 2005.
 154. Simos, P.G., Papanicolaou AC, Fletcher, J.M., Sarkari, S., & Denton, C. Intensive instruction affects brain magnetic activity associated with reading fluency in children with dyslexia. *Journal of Learning Disabilities*, in press.
 155. Simos, P. G., Sarkari, S., Clear,T., Billingsley-Marshall, R. L, & Papanicolaou, A. C. Estimates of neurophysiological activity in Wernicke's area: Reproducibility of complementary measures using magnetoencephalography. *Clinical Neurophysiology*, in press.
 156. Simos, P.G. Fletcher, JM, Sarkari S, Billingsley, RL, Denton C., & Papanicolaou, A.C. Magnetic Source Imaging studies of dyslexia interventions. *Developmental Neuropsychology*, 30(1),591-611, 2006
 157. Simos, P.G., Billingsley-Marshall, R.L., Sarkari, S., Patariaia, E., & Papanicolaou AC. Brain mechanisms supporting distinct languages. *Learning Disabilities Research and Practice*, 20: 31-38, 2005.
 158. Papanicolaou, A.C., Simos, P.G., Castillo, E.M. MEG localization of language-specific cortex utilizing MR-FOCUSS. *Neurology*, 64(4): 765, 2005.
 159. Breier, JI, Billingsley-Marshall, RL, Patariaia, E., Castillo, EM, Papanicolaou, AC. Magnetoencephalographic studies of language reorganization after cerebral insult. *Archives of Physical Medicine and Rehabilitation*, (in press).
 160. Leon-Carrion J, McManis MH, Castillo EM, Papanicolaou AC. Time-locked brain activity associated with emotion: a pilot MEG study. *Brain Inj*. 2006 Jul;20(8):857-65.
 161. Breier, J.I., Maher, L.M., and Papanicolaou, A.C., Funtional imaging before and after constraint language therapy for aphasia using magnetoencephalography. *Neurocase* (In Press)

Book Chapters:

1. Molfese, D.L.; Papanicolaou, A.C.; Hess, T.M.; Molfese, V.J. Neuroelectrical correlates of semantic processes. In: Begleiter, H., Ed. *Evoked Brain Potentials and Behavior*. New York: Plenum Publishing; 1979.

2. Eisenberg, H.M.; Cayard, C.; Papanicolaou, A.C.; et al. The effects of three potentially preventable complications on outcome after severe head injury. In: Ishii, S.; Nagai, H.; Brock, M.; Eds. *Intracranial Pressure V*. Heidelberg: Springer-Verlag; 1983: p. 549-533.
3. Levin, H.S.; Papanicolaou, A.C.; Eisenberg, H.M. Observations on amnesia after nonmissile head injury. In: Squire, L.R.; Butters, N.; Eds. *Neuropsychology of Memory*. New York: The Guilford Press; 1984: Chapter 24, p. 247-257.
4. Eisenberg, H.M.; Levin, H.S.; Papanicolaou, A.C. Recovery of memory after head injury. In: Dacey, Ed. *Trauma of the Central Nervous System*. New York: Raven Press; 1985.
5. Pirozzolo, F.J.; Papanicolaou, A.C. Plasticity and recovery of function in the central nervous system. In: Obrzut, J.; Hynd, G.; Eds. *Child Neuropsychology Vol. 1*. New York: Academic Press; 1986; p. 141-150.
6. Papanicolaou, A.C. Electrophysiologic methods for the study of attentional deficits in head injury. In: Levin, H.S.; Eisenberg, H.M.; Grafman, J.; Eds. *Neurobehavioral Recovery from Head Injury*. New York: Oxford University Press, 1987.
7. Papanicolaou, A.C. Aspects of Henri Bergson's Psycho-Physical Theory. In: Papanicolaou, A.C.; Gunter, P.A.Y.; Eds. *Bergson and Modern Thought: Towards a Unified Science*. New York: Harwood Academic Publishers, 1987; p. 56-128.
8. Papanicolaou, A.C. Assessment of hemispheric specialization for cognitive operations through the use of probe evoked potentials. In: Kaprinis, G.; Karavatos, A.; Tzavaras, A.; Eds. *Issues in Neuropsychology*. Thessaloniki: Synhrona Themata, 1987, p. 67-80.
9. Papanicolaou, A.C.; Moore, B.D.; Deutsch, G. Reorganization of cerebral function following lesions in the left hemisphere. In: P. Bach-y-Rita; Ed. *Traumatic Brain Injury*. New York: Demos Publications, 1989; p. 105-118.
10. Papanicolaou, A.C.; Rogers, R.L.; Baumann, S.B. Applications of magnetoencephalography to the study of cognition. In: Zappula, R.A., Ed. *Windows on the Brain: Neurophysiology's Technological Frontiers*. Ann. NY Acad. Sci. 1991; p. 118-127.
11. Levin, H.S.; Lilly, M.A.; Papanicolaou, A.C.; Eisenberg, H.M. Posttraumatic and Retrograde Amnesia after Closed Head Injury. In: Squire, Larry R.; Butters, N.; Eds. *Neuropsychology of Memory*. New York: The Guilford Press; Chapter 26, pp. 290-308; 1992.
12. Papanicolaou, A.C. and Tarkka, I. Magnetoencephalography. In: D.E. Bigler, Ed. *Handbook of Human Brain Function: Neuroimaging*. Plenum Press. Chapter 6, pp. 167-183; 1996.

13. Papanicolaou, A.C.; Simos, P.G.; Basile, L.F.A. Applications of Magnetoencephalography in Linguistic Research. In: Stemmer, B.; and Whitaker, H.A.; Eds. *The Handbook of Neurolinguistics*. Academic Press; pp. 143-158; 1998.
14. Wheless, J.W., Venkataraman, V., Kim, H., Breier, J.I., Simos, P.G., Zouridakis, G., Papanicolaou, A.C. Functional Brain Mapping with Magnetoencephalography (MEG). In Kayama, T. (ed): *Advanced Technology (Brain Tumor Surgery: Clinical application of advanced technologies)*, Japanese Brain Tumor Congress, Japan, pp. 100-115; 2001.
15. Wheless, J.W., Venkataraman, V., Kim, H., Breier, J.I., Simos, P.G., Zouridakis, G., Papanicolaou, A.C. Assessing Normal Brain Function with Magnetoencephalography (MEG). In Hirata K, Koga Y, Nagata K, Yamazaki K (ed.): *Recent Advances in Human Brain Mapping* (International Congress Series 1232), Elsevier, NYC, NY, 2002: 519-534.
16. Papanicolaou, A.C., Simos, P.G., Fletcher, J.M., Francis, D.J., Foorman, B., Castillo, E.M., Sarkari, S. "Early Development and Plasticity of Neurophysiological processes involved in reading." B. Foorman (Ed.), *Preventing and Remediating Reading Difficulties: Bringing Science to Scale*. Timonium, MD: York Press. Chapter 1, pp.3-21; 2003.
17. Papanicolaou, A.C., Davis, R.N., Valaki, C.E. & Simos, P.G. Brain mechanisms for language among polyglots: The contributions of clinical and functional neuroimaging studies. In F. Wood (Ed.), *Brain and languages: The challenge to reading education*. York Press: Timonium, MD. In Press.
18. Fletcher, J.M., Simos, P.G., Papanicolaou, A.C., & Denton, D. "Neuroimaging in Reading Research." In N.K. Duke & M. Mallette (Eds), *Literacy Research Methodologies*. New York: Guilford Publications. Chapter 12, pp. 252-286, 2004.
19. Papanicolaou, A.C., Pugh, K., Simos, P.G., Mencl, E. "Functional Brain Imaging: An Introduction to Concepts and Applications." In McCardle and Chhabra (eds.), *The Voice of Evidence in Reading Research*. Baltimore, MD: Paul H. Brookes Publishing Co. Chapter 16, pp. 383-416.
20. Wheless, J.W., Castillo, E.M., Papanicolaou, A.C. "Magnetoencephalography." In G.L. Holmes, S.L. Moshe, and H.R. Jones, Jr., *Clinical Neurophysiology of Infancy, Childhood, and Adolescence*. Philadelphia, PA: Elsevier. Chapter 39, pp. 799-818, 2005.
21. Sarkari, S., Simos, P.G., Billingsley-Marshall, R., Papanicolaou, A.C. Functional brain imaging with magnetoencephalography: Basic concepts and applications in developmental neuropsychology. In D.L. Molfese & V. Molfese (Eds.), *Handbook of Developmental Neuropsychology*. 2005, pp. 223-248

22. Papanicolaou, A.C., Castillo, E.M., Billingsley-Marshall, R., Patariaia, E., Simos, P.G. A Review of Clinical Applications of Magnetoencephalography. In *International Review of Neurobiology*. 2005, 68:223-247
23. Papanicolaou, A.C., Simos, P.G., Sarkari, S. Brain and Language: Brain imaging of language processing: Magnetoencephalography. In Keith Brown (Ed.), *Encyclopedia of Language and Linguistics*, 2nd edition. Nov. 2005, pp. 437-444
24. Simos, PG, Sarkari, S, Mencl, E., Billingsley-Marshall, RL, & Papanicolaou AC. Single word reading: Real time imaging of brain activity associated with word recognition. In E. Grigorenko (Ed.) *Single Word Reading*. In Press.

Workshops

1. Applications of Functional Brain Imaging in Neuropsychology. **International Neuropsychological Society**; Denver; February 2000.
2. Magnetoencephalography **International Internet “Virtual Lecture”** December 1999.

Conference Proceedings

1. Rogers, R.L.; Papanicolaou, A.C.; Baumann, S.; Saydjari, C.; Eisenberg, H.M. Nonstationary dynamics of sequential magnetic dipole changes associated with N100 auditory evoked responses. In: Kaufmann, L.; Williamson, S.; Stroink, G.; Eds. *Advances in Biomagnetism*, New York: Plenum Press, 1989; p.105-108.
2. Wilson, G.; Busch, C.; Papanicolaou, A.C.; Oliver, C.; Orr, C. Cortical resource allocation during mental rotation determined by magneto- and electro-encephalography. In: Kaufmann, L.; Williamson, S.; Stroink, G.; Eds. *Advances in Biomagnetism*. New York: Plenum Press, 1989; p.233-236.
4. Baumann, S.; Rogers, R.; Papanicolaou, A. Replicability for localization of the P1, N1, and P2 components of the auditory evoked response in an unselected group of subjects. In: Kaufman, L.; Williamson, S.; Stroink, G.; Eds. *Advances in Biomagnetism*. New York: Plenum Press, 1989; p.101-104.
5. Busch, C.; Wilson, G.; Orr, C.; Papanicolaou, A. Crossmodal interactions of auditory stimulus presentation on the visual evoked magnetic response. In: Kaufman, L.; Williamson, S.; Stroink, G.; Eds. *Advances in Biomagnetism*. New York: Plenum Press, 1989; p.221-224.

6. Papanicolaou, A.C., Simos, P.G. Evoked potential and dichotic listening correlates of right hemisphere involvement in language restitution following left hemisphere injury. *Psychological Issues* 3: 5-25 (1990).
7. Baumann, S.B.; Papanicolaou, A.C.; Levin, H.S.; Bertolino, L.A.; Rogers, R.L.; Masel, B.E. Auditory steady-state responses in subjects with early Alzheimer's disease. In: Hoke, M.; Erne, S.N.; Okada, Y.C.; and Romani, G.L.; Eds. *Biomagnetism '91: Clinical Aspects*. 1992; pp. 313-316.
8. Rogers, R.L.; Papanicolaou, A.C.; Baumann, S.; Eisenberg, H. Neuromagnetic evoked visual fields following infrequent stimulus omissions. In: Hoke, M.; Erne, S.N.; Okada, Y.C.; and Romani, G.L.; Eds. *Biomagnetism '91: Clinical Aspects*. 1992; pp. 203-206.
9. Basile, L.F.H.; Rogers, R.L.; Bourbon, W.T.; Papanicolaou, A.C. Task-specific slow fields from human frontal cortex. In: Deecke, L.; Baumgartner, C.; Stroink, G. and Williamson, S.J.; Eds. *Recent Advances in Biomagnetism*, 1993; pp. 120-121.
10. Rogers, R.L.; Basile, L.F.H.; Papanicolaou, A.C.; Bourbon, W.T. Evoked magnetic fields in extrastriate visual cortex during motion detection. In: Deecke, L.; Baumgartner, C.; Stroink, G.; Williamson, S.J.; Eds. *Recent Advances in Biomagnetism*, 1993; pp. 14-15.
11. Basile, L.F.H.; Simos, P.G.; Tarkka, I.M. and Papanicolaou, A.C. Task-specific magnetic fields from the left human prefrontal cortex. *Biomag 96*, Santa Fe, NM, p. 40, 1996.
12. Simos, P.G.; Basile, L.F.H.; Zouridakis, G.; Papanicolaou, A.C. Source localization of the N400 response in a sentence-reading paradigm using evoked magnetic fields. *Proceedings of the Tenth International Conference on Biomagnetism: Biomag '96*, Santa Fe, NM, 1996.
13. Simos, P.G.; Breier, J.I.; Zouridakis, G.; Papanicolaou, A.C. Identification of language-related brain activity using magnetoencephalography. *Biomagnetism '98 Sendai, Japan*, 1998.
14. Papanicolaou A.C.; Simos, P.G.; Breier, J.I.; Zouridakis, G. Mapping the language cortex. *Biomagnetism '98, Sendai, Japan*, 1998.
15. Zouridakis, G.; Simos, P.G.; Breier, J.I.; Papanicolaou, A.C. Cerebral dominance assessment using magnetoencephalography. *Biomagnetism '98, Sendai, Japan*, 1998.
16. Eduardo M. Castillo, Joanne Gamelin, Wenbo Zhang, Panagiotis G. Simos, Andrew C. Papanicolaou. Automated analysis of MEG recordings for hemispheric dominance determinations in a clinical population: a comparison with the "standard" analysis procedure with the Wada test. . *BIOMAG Conference, Jena Germany, August 10-14 2002*.
17. Eduardo M. Castillo, Panagiotis G. Simos, Joshua Breier, Michele E. Fitzgerald, Shirin

- Sarkari, Andrew C. Papanicolaou. Insights into memory function using Magnetic Source Imaging. BIOMAG Conference, Jena Germany, August 10-14, 2002.
18. P. Simos, S. Sarkari, E. M. Castillo, J. Fletcher, A. Papanicolaou. Insights into the brain mechanism for reading using MSI and electrocortical stimulation mapping. BIOMAG Conference, Jena Germany, August 10-14, 2002.
 19. S. Sarkari, P. Simos, E.M. Castillo, J. Breier, A. Papanicolaou. Presurgical determination of language dominance with Magnetic Source Imaging: Agreement with the Wada procedure. BIOMAG Conference, Jena Germany, August 10-14, 2002.
 20. D.L. Molfese, P.G. Simos, E.M. Castillo, A.C. Papanicolaou. Reliability and concurrent validity of alternative source modeling methods: Comparison with invasive brain mapping techniques. BIOMAG Conference, Jena Germany, August 10-14, 2002.
 21. P. Simos, S. Sarkari, E. M. Castillo, J. Fletcher, A. Papanicolaou. Distinct spatiotemporal activation profiles in dyslexic children. BIOMAG Conference, Jena Germany, August 10-14, 2002.

Book Reviews:

1. Papanicolaou, A.C.; Elbert, T.H.; Rockstroh, B; Lutzenberger, W.; Birbaumer, N.; Eds. Self-Regulation of the Brain and Behavior. Berlin: Springer-Verlag. *J. Neurosci. Res.* 12:4-6; 1984.
2. Papanicolaou, A.C.; Maurer, K.; Lowitzsch, K.; St'hr, M.; Eds. Evoked Potentials. Toronto: B.C. Decker Inc.; 1989. *J. Neurosurg.* 72:150; 1990.
3. Papanicolaou, A.C.; Duffy, F.H.; Iyer, V.G.; Surwillo, W.W. Clinical Electroencephalography and Topographic Brain Mapping: Technology and Practice (Recording and Interpreting Electrical Brain Activity). New York Springer-Verlag, 1989. *Contemp. Psychol.* 36:689-690, 1991.

Commentaries and Reports:

1. Papanicolaou, A.C.; Kaufman, L. "Localization and Cure of Epileptic Foci with the Use of MEG Measurements" by P.A. Anninos and N. Tsagas. *Int. J. Neurosci.* 46:235-242; 1989.
2. Papanicolaou, A.C. Reorganization of brain function in recovery from aphasia. Rehabilitation R&D Progress Reports. VA Office of Technology Transfer; 1987.

3. Papanicolaou, A.C. Functional mapping with Magnetoencephalography. The UT-Houston Neuroscience Newsletter, 1999, Vol. 6.

Abstracts:

1. Papanicolaou, A.C. Intracerebral dynamics in speech perception. INS Bull.; 1977.
2. Papanicolaou, A.C.; Molfese, D.L. Latent components of evoked potentials related to phonological and semantic features of verbal stimuli. Acoust. Soc. Am.; 1977.
3. Papanicolaou, A.C. Regional cerebral asymmetries during language processing. INS Bull.; 1980.
4. Papanicolaou, A.C.; Levin, H.S.; Eisenberg, H.M. Evoked potential correlates of verbal encoding following closed head injury. Acad. Aphasia Bull.; 1981.
5. Papanicolaou, A.C.; Levin, H.S.; Eisenberg, H.M.; Moore, B.D. Hemispheric specialization for cognitive tasks in normal subjects and brain damaged patients: A probe evoked potentials paradigm. INS Bull.; 1981.
6. Papanicolaou, A.C.; Eisenberg, H.M.; Levin, H.S. Linguistic recovery after left hemisphere injury. AANS Abstr.; 1982.
7. Papanicolaou, A.C.; Levin, H.S.; Eisenberg, H.M. Evoked potential indices of hemispheric specialization in cognitive tasks. Am. Psychol. Assoc. Program; 1982.
8. Papanicolaou, A.C.; Levin, H.S.; Eisenberg, H.M.; Moore, B.D. Evoked potential indices of selective hemispheric engagement in phonetic and affective tasks. Acad. Aphasia Bull.; 1982.
9. Papanicolaou, A.C.; Levin, H.S.; Eisenberg, H.M.; Moore, B.D. Neuroelectric correlates of alternating hemispheric dominance in affective and phonetic tasks. Soc. Neurosci. Abstr. 8:917; 1982.
10. Papanicolaou, A.C.; Levin, H.S.; Eisenberg, H.M.; Moore, B.D. P-300 latency correlates of early recovery from closed head injury. INS Bull.; 1982.
11. Papanicolaou, A.C.; Schmidt, A.L.; Moore, B.D.; Eisenberg, H.M. Cerebral activation profiles for arithmetic and visuospatial tasks. INS Bull.; 1982.
12. Papanicolaou, A.C. (Presenter). An overview of the rationale and the range of applications of the probe paradigm. INS Bull.; 1983.
13. Papanicolaou, A.C.; Loring, D.W.; Eisenberg, H.M. Habituation vs. refractory period hypotheses in the two-tone evoked potential paradigm. INS Bull.; 1983.

14. Papanicolaou, A.C.; Loring, D.W.; Eisenberg, H.M. Temporal pattern effects on cortical evoked potentials. *INS Bull.*; 1983.
15. Loring, D.W.; Papanicolaou, A.C.; Eisenberg, H.M. Cortical evoked potentials in closed head injury. *Southwest. Psychol. Assoc. Program*; pg. 34; 1984.
16. Papanicolaou, A.C. Evoked potential applications in neurosurgery. *Am. Psychol. Assoc. Program*; 1984.
17. Papanicolaou, A.C. Evoked potentials measure delayed information processing in post-traumatic amnesia. *AANS Abstr.*; 1984.
18. Papanicolaou, A.C.; Levin, H.S.; Eisenberg, H.M. Evoked potential correlates of posttraumatic amnesia after head injury. *Houston Conference on Neurotrauma Program*; 1984.
19. Deutsch, G.; Papanicolaou, A.C.; Eisenberg, H.M. CBF gradient changes elicited by visual stimulation and visual memory tasks. *J. Clin. Exp. Neuropsychol.* 7:142; 1985.
20. Deutsch, G.; Papanicolaou, A.C.; Loring, D.W.; Eisenberg, H.M. Left hemisphere blood flow during acoustic, phonetic and semantic target tasks. *J. Clin. Exp. Neuropsychol.* 7:632; 1985.
21. Loring, D.W.; Papanicolaou, A.C.; Eisenberg, H.M. Recovery cycle of auditory evoked potentials in head injury. *INS Bull.*; 1985.
22. Papanicolaou, A.C.; Loring, D.W.; Eisenberg, H.M. Evoked potential correlates of hemispheric asymmetries during a speech shadowing task. *J. Clin. Exp. Neuropsychol.* 7:601, 1985.
23. Papanicolaou, A.C.; Loring, D.W.; Eisenberg, H.M.; Contreras, F.L. Brain stem potentials in comatose head injury patients. *J. Clin. Exp. Neuropsychol.* 7:154; 1985.
24. Papanicolaou, A.C.; Loring, D.W.; Raz, N.; Eisenberg, H.M. Effects of stimulus intensity on the P-300. *J. Clin. Exp. Neuropsychol.* 7:154; 1985.
25. Papanicolaou, A.C.; Raz, N.; Loring, D.W.; Eisenberg, H.M. Suppression of brainstem evoked responses during speech production. *INS Bull.*; 1985.
26. Papanicolaou, A.C.; Moore, B.D.; Mahurin, R.; Levin, H.S.; Eisenberg, H.M. Electrophysiological data suggest right hemisphere role in recovery from aphasia. *J. Clin. Exp. Neuropsychol.* 8:117-118; 1986.

27. Deutsch, G.; Papanicolaou, A.C.; Bourbon, W.T.; Eisenberg, H.M. Visuospatial tasks compared via activation of regional cerebral blood flow. *J. Clin. Exp. Neuropsychol.* 9:69, 1987.
28. Deutsch, G.; Papanicolaou, A.C.; Eisenberg, H.M. CBF during tasks intended to differentially activate the cerebral hemispheres: New normative data and preliminary application in recovering stroke patients. *J. Cerebr. Blood Flow Metabol.* 7:302-306; 1987.
29. Moore, B.; Papanicolaou, A.C.; Eisenberg, H.M. Right hemisphere role in recovery from aphasia: Probe evoked potential and dichotic listening evidence. *J. Clin. Exp. Neuropsychol.* 9:65; 1987.
30. Papanicolaou, A.C.; Deutsch, G.; Bourbon, T.; Eisenberg, H.M. Convergent evoked potential and cerebral blood flow evidence of task-specific right hemispheric activation. *J. Clin. Exp. Neuropsychol.* 9:81, 1987.
31. Papanicolaou, A.C.; Wilson, G.F.; De Rego, P.; Davis, I.; Eisenberg, H.M. Magnetoencephalography to the study of hemispheric specialization for cognitive operations. *J. Clin. Neuropsychol.* 9:284, 1987.
32. Samra, S.K.; Bradshaw, E.G.; Pandit, S.K.; Moore, B.; Papanicolaou, A.C. Time course of lorazepam induced auditory amnesia: Its relationship to cognitive evoked potentials in humans. *Anesthesiology* 67:420, 1987.
33. Deutsch, G.; Papanicolaou, A.C. Cerebral blood flow during cognitive tasks in recovering stroke patients. *J. Clin. Exp. Neuropsychol.* 10:87, 1988.
34. Papanicolaou, A.C.; Moore, B.D. Effects of selective attention on somatosensory evoked potentials. *J. Clin. Exp. Neuropsychol.* 10:76, 1988.
35. Moore, B.D.; Bloom, D.; Papanicolaou, A.C. Cortical potential shifts during response preparation differentiate fast from slow responding normals and head injured subjects. *J. Clin. Exp. Neuropsychol.* 11:72, 1989.
36. Papanicolaou, A.C.; Baumann, S.B.; Rogers, R.L.; Saydjari, C.; Amparo, E.G.; Eisenberg, H.M. Validation of MEG localization against the MRI. *J. Clin. Exp. Neuropsychol.* 1989.
37. Papanicolaou, A.C.; Moore, B.D.; Bloom, D.; Gary, H.E. Contingent negative variation and evoked potential correlates of performance in reaction time tasks. *J. Clin. Exp. Neuropsychol.* 11:73, 1989.
38. Papanicolaou, A.C.; Rogers, R.L.; Baumann, S.B.; Saydjari, C.; Eisenberg, H.M. Source localization of auditory responses using magnetoencephalography and magnetic resonance imaging. *J. Clin. Exp. Neuropsychol.* 12:94, 1990.

39. Rogers, R.L.; Papanicolaou, A.C.; Baumann, S.B.; Saydjari, C.; Eisenberg, H.M. Neuromagnetic mapping of dynamic processing in the auditory cortex. *J. Clin. Exp. Neuropsychol.* 12:94, 1990.
40. Judd, B.W.; Ewing-Cobbs, L.; Papanicolaou, A.C.; Fletcher, J.M.; Miner, M.E. Lateralization of language following traumatic brain injury in children. *J. Clin. Exp. Neuropsychol.* 12:104, 1990.
41. Papanicolaou, A.C.; Rogers, R.L.; Basile, L.F.H.; Baumann, S.; Eisenberg, H.M. Magnetoencephalography reveals two distinct sources associated with the P300 during visual oddball paradigm. *J. Clin. Exp. Neuropsychol.* 14:1, 1992.
42. Rogers, R.L.; Papanicolaou, A.C.; Baumann, S.; Eisenberg, H. Neuromagnetic studies indicate two distinct sources corresponding to the visual P3 evoked response. *J. Clin. Exp. Neuropsychol.* 1992.
43. Papanicolaou, A.C.; Bourbon, W.T.; Plenger, P.M. The effect of transcranial magnetic stimulation on the perception of speech sounds. *Journal of the International Neuropsychological Society* 1(2), p. 187, 1994.
44. Tarkka, I.M.; Papanicolaou, A.C. Electric source analysis of auditory evoked P300 agrees with magnetic source analysis of P300. *American Academy of Clinical Neurophysiology*, Boston, MA, p. 25, 1994.
45. Papanicolaou, A.C.; Basile, L.F.H. Functional mapping of the human frontal lobes through MEG. B. Mazoyer, P. Roland and R. Sietz, Eds. *Human Brain Mapping Supplement 1*, New York: Wilery-Liss, p. 44, 1995.
46. Breier, J.I.; Plenger, P.M.; Wheless, J.W.; Thomas, A.B.; Brookshire, B.L.; Willmore, L.J.; 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.
47. Plenger, P.M.; Breier, J.I.; Wheless, J.W.; Brookshire, B.L.; Papanicolaou, A.C.; Thomas, A.B.; Willmore, L.J. The utility of the MMPI in differentiating non-epileptic seizure disorder from frontal lobe epilepsy. *Epilepsia* 36:136, 1995.
48. 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 for re-organization of spatial and figural memory following early seizure activity. *American Epilepsy Society*, 1995.
49. Breier, J.I.; Plenger, P.M.; Brookshire, B.L.; Wheless, J.W.; Thomas, A.B.; Papanicolaou, A.C.; Willmore, L.J. Effects of temporal lobe epilepsy on spatial and figural aspects of memory for a complex geometric figure. *Journal of the International Neuropsychological Society* 2:53, 1996.

50. 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, Illinois, 1996.
51. Papanicolaou, A.C. Magnetoencephalographic mapping of the P300 and of CNV sources. *International Journal of Psychophysiology* 18:87-159, 1994.
52. 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. *Epilepsia* 37 (Suppl. 5):197, 1996.
53. Brookshire, B.L.; Breier, J.I.; Fletcher, J.M.; Plenger, P.M.; Wheless, J.W.; Thomas, A.B.; Papanicolaou, A.C.; Willmore, L.J. Cognitive profiles of adults with temporal lobe epilepsy deficits. *Epilepsia* 37(Suppl. 5):128, 1996.
54. Plenger, P.M.; Breier, J.I.; Brookshire, B.L.; Wheless, J.W.; Thomas, A.B.; Papanicolaou, A.C.; Willmore, L.J. Enhancing the discrimination of left temporal lobe epilepsy during the intracarotid sodium amobarbital procedure. *Epilepsia* 37 (Suppl. 5):133, 1996.
55. Zouridakis, G., Simos, P.G., Papanicolaou, A.C. Functional organization of the auditory cortex: evidence from whole-head MEG. 15th Annual Conference on Biomedical Engineering Research, Houston, p.46, 1997.
56. Zouridakis, G., Simos, P.G., Papanicolaou, A.C. Intraoperative electrophysiological monitoring. 15th Annual Conference on Biomedical Engineering Research, Houston, p.168, 1997.
57. Zouridakis, G., Papanicolaou, A.C. Evidence for hemispheric functional organization of the auditory cortex. *Annals of Biomedical Engineering*, 25:S40, 1997.
58. Breier, J.I.; Brookshire, B.L.; Fletcher, J.M.; Plenger, P.M.; Wheless, J.W.; Thomas, A.B.; Papanicolaou, A.; 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.
59. Plenger, P.M.; Breier, J.I.; Mullani, N.; Wheless, J.W.; Thomas, A.B.; Papanicolaou, A.; 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.
60. 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.
61. Kramer, L.A., Wheless, J.W., Papanicolaou, A.C., Yeakley, J.W., Hankins, L.L. Magnetic resonance imaging in the evaluation and treatment of epilepsy. *Radiology*, 205P, 1997.
 62. Zouridakis, G., Simos, P.G., Breier, J.I., Papanicolaou, A.C. Assessment of functional hemispheric asymmetries in a visual language task via MEG. 16th Annual Conference on Biomedical Engineering Research, Houston, p.118, 1998.
 63. 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.
 64. Fuchs, K.; Breier, J.I.; Brookshire, B.L.; Wheless, J.W.; Thomas, A.B.; Papanicolaou, A.; Willmore, L.J. The relationship between memory and language performance during the intracarotid amobarbital procedure. *Journal of the International Neuropsychological Society* 4(1):73, 1998.
 65. Fuchs, K.; Breier, J.I.; Brookshire, B.L.; Wheless, J.W.; Thomas, A.B.; Papanicolaou, A.; Willmore, L.J. Language laterality affects Wada test performance. *Journal of the International Neuropsychological Society* 4(1):19, 1998.
 66. Papanicolaou, A.C., Simos, P.G., Breier, J.I., Zouridakis, G. Language mapping with magnetoencephalography. *Journal of the International Neuropsychological Society* 7:S211, 1998.
 67. Papanicolaou, A.C., Simos, P.G., Breier, J.I., Zouridakis, G. Language mapping with magnetoencephalography (MEG). *Neuroimage* 7: S178, 1998.
 68. Zouridakis, G.; Simos, P.G.; Breier, J.I.; Papanicolaou, A.C. Cerebral dominance assessment using magnetoencephalography. *Biomagnetism*, 1998.
 69. 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.
 70. Breier, J.I., Simos, P.G., Zouridakis, G., Papanicolaou, A.C. Reliability of MEG lateralization of receptive language areas. *Epilepsia* 39 (Suppl. 6):143, 1998.
 71. 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. 17th Annual Conference on Biomedical Engineering Research, Houston, 1999.

72. Zouridakis, G. Simos, P.G., Breier, J.I., Maggio, W.W., Gormley, W.B., Wheless, J.W., Constantinou, J.E.C., Papanicolaou, A.C. Language mapping. 17th Annual Conference on Biomedical Engineering Research, Houston, 1999.
73. Papanicolaou, A.C., Simos, P.G., Breier, J.I., Zouridakis, G., Constantinou, J.C., Wheless, J.W., Maggio, W.W. Mapping the receptive language cortex. Society for Neuroscience Abstracts, 25(2): 1635, 1999
74. 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 the International Neuropsychological Society 5:135, 1999.
75. 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.
76. Barron, B., Lamki, L., Wheless, J., Bhosale, P., Papanicolaou, A., Simos, P., Su, J. Localization of Epileptogenic Foci: The Utility of Magnetoencephalography (MEG) and Brain SPECT. Clin. Nucl. Med. 24(3): 214, 1999.
77. 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.
78. 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.
79. 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.
80. 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.
81. 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, 1999.
82. Zouridakis G., Papanicolaou A.C., Simos P.G., Kataki M. The mapping of the receptive language-specific cortex using MEG. Abstracts of the Second Conference on Biomedical Engineering in Greece, Chania, Greece, 1999.

83. Papanicolaou, A.C., Simos, P.G., Breier, J.I., Wheless, J.W., Maggio, W.W. Mechanisms for reading words and pseudowords: Insights from functional imaging and electrocortical stimulation. *Journal of the International Neuropsychological Society*, In Press.
84. 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(Suppl. 2): 211, February 2000.
85. Breier, J.I., Simos, P.G., Wheless, J.W., Constantinou, J.E.C., Baumgartner, J.E., Venkataraman, V., Papanicolaou, A.C. Language dominance in children as determined by magnetic source imaging and the intracarotid amobarbital procedure: A comparison. *Ann. Neurol.*, 48(3):515-516, 2000.
86. Wheless, J.W., Breier, J.I., Simos, P.G., Constantinou, J.E.C., Baumgartner, J.E., Venkataraman, V., Papanicolaou, A.C. A comparison of language dominance in children as determined by magnetic source imaging and the intracarotid amobarbital procedure. *Epilepsia*, 41(Suppl. 7):81, 2000.
87. Simos, P.G., Breier, J.I., Wheless, J.W., Maggio, W.W., and Papanicolaou, A.C. Mechanisms for reading words and pseudowords: Insights from functional imaging and electrocortical stimulation. *Journal of the International Neuropsychological Society*, 6, S380: 2000.
88. Simos, P.G., Breier, J.I., Fletcher, J.M., Foorman, B.R., Mouzaki, A., & Papanicolaou, A.C.: Age-related changes in regional brain activation during phonological decoding and printed word recognition. *Journal of the International Neuropsychological Society*, 6, S388: 2000.
89. Papanicolaou, A.C., Simos, P.G., Breier, J.I., Castillo, E.M., Davis, R.N., Wheless, J. W., Venkataraman, V., Kim, H.L., and Maggio, W.W. MEG: A method comparable to the Wada procedure for language laterality assessment. *Epilepsia* 42 (Suppl. 7):75, 2001.
90. Goldman, A.M., Wheless, J.W., Venkataraman, V., Kim, H.L., Papanicolaou, A.C. Magnetoencephalography mislocalizes interictal epileptogenic activity in mesial temporal epilepsy. *Epilepsia*, 42(Suppl. 7):97, 2001.
91. Ishibashi, H., Simos, P.G., Castillo, E.M., Maggio, W.W., Wheless, J.W., Kim, H.L., Venkataraman, V., Sanders, D.K., Breier, J.I., Zhang, W., Davis, R.N., and Papanicolaou, A.C. Detection and significance of focal, interictal slow wave activity for localization of the primary epileptogenic region using Magnetoencephalography. *Epilepsia*, 42(Suppl. 7):272, 2001.

92. Castillo, E., Davis, R., Simos, P.G., Breier, J.I., Fitzgerald, M., Ishibashi, H., Zhang, W. & Papanicolaou, A.C. Two brain mechanisms mediating different levels of word processing and memory performance. *Journal of the International Neuropsychological Society* 8:163, 2002.
93. Andrew C. Papanicolaou. "MEG Mapping of the Brain Mechanisms of Language". SYMPOSIUM 9: The Use of Different Neuroimaging Modalities to Understand Language and Brain Plasticity: Symposium Chair: Andrew C. Papanicolaou. *International Journal of Psychophysiology*, 45 (1-2) 26, July 2002.
94. Eduardo M. Castillo, James E. Baumgartner, Panagiotis G. Simos, Shirin Sarkari, James W. Wheless, Andrew C. Papanicolaou. Language representation in the "non dominant" hemisphere in children with positive cognitive evolution after tumor surgery in the "dominant" hemisphere. 10th International Symposium on Paediatric Neuro-Oncology. London June 2002.
95. James E. Baumgartner, Eduardo M. Castillo, Panagiotis G. Simos, James W. Wheless, Andrew C. Papanicolaou. Plastic representation of somatosensory function in children with intracranial mass lesions in the vicinity of the central sulcus. 10th International Symposium on Paediatric Neuro-Oncology. London June 2002.
96. Eduardo M. Castillo, Joanne Gamelin, Wenbo Zhang, Panagiotis G. Simos, Andrew C. Papanicolaou. Automated analysis of MEG recordings for hemispheric dominance determinations in a clinical population: a comparison with the "standard" analysis procedure with the Wada test. . BIOMAG Conference, Jena Germany, August 10-14 2002.
97. Eduardo M. Castillo, Panagiotis G. Simos, Joshua Breier, Michele E. Fitzgerald, Shirin Sarkari, Andrew C. Papanicolaou. Insights into memory function using Magnetic Source Imaging. BIOMAG Conference, Jena Germany, August 10-14, 2002.
98. P. Simos, S. Sarkari, E. M. Castillo, J.Fletcher, A. Papanicolaou. Insights into the brain mechanism for reading using MSI and electrocortical stimulation mapping. BIOMAG Conference, Jena Germany, August 10-14, 2002.
99. S. Sarkari, P. Simos, E.M. Castillo, J. Breier, A. Papanicolaou. Presurgical determination of language dominance with Magnetic Source Imaging: Agreement with the Wada procedure. BIOMAG Conference, Jena Germany, August 10-14, 2002.
100. D.L. Molfese, P.G. Simos, E.M. Castillo, A.C. Papanicolaou. Reliability and concurrent validity of alternative source modeling methods: Comparison with invasive brain mapping techniques. BIOMAG Conference, Jena Germany, August 10-14, 2002.

101. P. Simos, S. Sarkari, E. M. Castillo, J. Fletcher, A. Papanicolaou. Distinct spatiotemporal activation profiles in dyslexic children. BIOMAG Conference, Jena Germany, August 10-14, 2002.
102. Hideaki Ishibashi, Panagiotis G. Simos, James W. Wheless, Wenbo Zhang, Howard L. Kim, James E. Baumgartner, Eduardo M. Castillo, William W. Maggio, Vijay Maggio, and Andrew C. Papanicolaou. Magnetoencephalographic features associated with cortical migration disorder. *Epilepsia*, 43(Suppl. 7):76, 2002. Presented at Annual Meeting of American Epilepsy Society, Seattle, Washington. December 6 - 11, 2002.
103. Wenbo Zhang, Panagiotis G. Simos, Hideaki Ishibashi, James W. Wheless, Eduardo M. Castillo, Joshua I Breier, James E. Baumgartner, Andrew C Papanicolaou, MEG Assist Finding Subtle Cortical Dysplasia. *Epilepsia*, 43(Suppl. 7):78, 2002. Presented at Annual Meeting of the American Epilepsy Society, Seattle, Washington. December 6 – 11, 2002
104. Maggio, V., Ng, Y., Simos, P., Papanicolaou, A., Wheless, J. Correlation of ictal magnetoencephalography with ictal electroencephalographic recordings. *Epilepsia*, 43(Suppl. 7):315, 2002. Presented at Annual Meeting of American Epilepsy Society, Seattle, Washington. December 6-11, 2002.
105. Papanicolaou, A., Simos, P., Breier J., Castillo, E., & Davis, R.: Language Mapping with Magnetoencephalography (MEG) Yields Results Comparable to the Wada Test. *Journal of the International Neuropsychological Society*, 8:216-217, 2002.
106. Castillo, E., Davis, R., Simos, P., Breier, J., Ishibashi, H., Zhang, W., & Papanicolaou, A. Dynamics of activation in medial temporal lobe structures during encoding and recognition. *Journal of the International Neuropsychological Society*, 8:227, 2002.
107. Castillo, E.M., Simos, P.G., Breier, J.I., Wheless, J.W., Butler, I.J., Billingsley, R.L., Papanicolaou, A.C. Epileptic activity interfering with word processing in landau-kleffer syndrome: the role of the non-affected hemisphere in linguistic deficit manifestation. *Epilepsia*, 44(Suppl. 9):310, 2003. Paper to be presented at the Annual meeting of the American Epilepsy Society, Boston, MA., Dec. 5 – 10, 2003.
108. Papanicolaou, A.C., Simos, P.G., Castillo, E.M., Breier, J.I., Wheless, J.W., Maggio, V., Billingsley, R.L., Sarkari, S., Patariaia, E., Clear, T., Maggio, W.W. MEG is comparable to the Wada procedure for language laterality assessment. *Epilepsia*, 44(Suppl. 9): 251-252, 2003. Paper presented at the Annual meeting of the American Epilepsy Society, Boston, MA., Dec. 5 – 10, 2003
109. Patariaia, E., Simos, P.G., Billingsley, R.L., Castillo, E.M., Sarkari, S., Maggio, V., Wheless, J.W., Fitzgerald, M., Breier, J.I., Papanicolaou, A.C. Contribution of magnetoencephalography to the presurgical determination of the epileptogenic zone in patients with frontal lobe epilepsy. *Epilepsia*, 44(Suppl. 9):252, 2003. Paper presented at the Annual meeting of the American Epilepsy Society, Boston, MA., Dec. 5-10, 2003

110. Castillo, E.M., Breier, J.I., Wheless, J.W., Pataraiia, E., Papanicolaou, A.C. Planning epilepsy surgery when language is compromised: comparisons of MEG-derived maps of activation with the Wada test and with direct electrical stimulation mapping. 6th European Congress on Epileptology. Vienna, Austria, May 30th – June 3rd, 2004.
111. Pataraiia, E., Simos, P.G., Billingsley, R., Castillo, E., McGregor, A., Maggio, W., Gormley, W., Sarkari, S., Breier, J., Fitzgerald, M., and Papanicolaou, A.C. Language Reorganization in Patients with Left Hemisphere Lesions and Mesial Temporal Lobe Epilepsy: A Magnetoencephalography Study 6th European Congress on Epilepsy, Vienna, Austria, May 30th – June 3rd, 2004
112. Castillo, E.M., Simos, P.G., Wheless, J.W., Baumgartner, J.E., Fitzgerald, M.E., Papanicolaou, A.C. Mapping sensorimotor function in patients with perirolandic lesions: a comprehensive MEG protocol. 14th International Conference on Biomagnetism, Boston, August 8-12, 2004.
113. Castillo, E.M., and Papanicolaou, A.C. Cortical representation of dermatomes: MEG-derived maps recorded after tactile stimulation. 14th International Conference on Biomagnetism, Boston, August 8-12, 2004.
114. Pataraiia, E., Castillo, E.M., Simos, P.G., Billingsley- Marshall, R., Fitzgerald, M., Sarkari, S., Breier, J., and Papanicolaou, A.C. Relative merits of MEG for identification of the epileptogenic zone as compared with invasive EEG. BIOMAG, Boston, August 8-12, 2004.
115. Pataraiia, E., Simos, P.G., Billingsley, R., Castillo, E., Sarkari, S., Breier, J., and Papanicolaou, A.C. Comparison of MEG with invasive EEG in Temporal Lobe Epilepsy. 8th Congress of the EFNS, Paris, France, September 4-7, 2004.
116. Castillo, E.M., Breier, J.I., Wheless, J.W., Baumgartner, J.E., Pataraiia, E., Papanicolaou, A.C. Is linguistic function still there after multiple subpial transactions over Wernicke's area? American Epilepsy Society, 58th Annual Meeting, New Orleans, December 3-8, 2004.
117. Pataraiia, E., Billingsley-Marshall, R.L., Castillo, E.M., Breier, J.I., Simos, P.G., Sarkari, S., Fitzgerald, M., Clear, T., and Papanicolaou, A.C. Organization of Receptive Language-Specific Cortex Before and After Left Temporal Lobectomy. American Epilepsy Society, 58th Annual Meeting, New Orleans, December 5-8, 2004.
118. Breier, J.I., Simos, P.G., Castillo, E.M., Pataraiia, E., Billingsley, R.L., Wheless, J.W., and Papanicolaou, A.C. Abnormal Activation of Language Cortex in Patients With Chronic Seizures and Academic Achievement Deficit. American Epilepsy Society, 58th Annual Meeting, New Orleans, December 5-8, 2004.
119. Castillo, E.M., Breier, J.I., Wheless, J.W., Slater, J.D., Tandon, N., Baumgarther, J.E., McManis, M.H., and Papanicolaou, A.C. Contributions of Direct Cortical Stimulation

and MEG Recordings to Identify “Essential” Language Cortex. American Epilepsy Society and American Clinical Neurophysiology Society Joint Annual Meeting, Washington DC, December 2-6, 2005.

120. Pataria, E., Simos, P.G., Billingsley-Marshall, R.L., Castillo, E.M., Breier, J.I., Sarkari, S., Papanicolaou, A.C. Assessment of the Localization Accuracy of Magnetoencephalography in Temporal Lobe Epilepsy – Comparison with Invasive EEG. American Epilepsy Society and American Clinical Neurophysiology Society Joint Meeting, Washington DC, December 2-6, 2005.
121. Slater, J.D., McManis, M.H., Clarke, D., Perkins, F.F., McGregor, A.L., Wheless, J.W., Breier, J.I., Castillo, E.M., and Papanicolaou, A.C. Magnetic Source Localization in Patients with Idiopathic Generalized Epilepsies. American Epilepsy Society and American Clinical Neurophysiology Society Joint Annual Meeting, Washington DC, December 2-6, 2005.
122. Breier, J. I., Maher, L., Castillo, E. M., Novak, B., Papanicolaou, A. Neurophysiological Changes in Receptive Language Cortex with Age Using Magnetoencephalography. (Abstract) Journal of the International Neuropsychological Society (in press).
123. Castillo EM, Breier JI, Wheless JW, Slater JD, Tandon N, Baumgartner JE, McManis MH, Papanicolaou AC. Contributions of direct cortical stimulation and MEG recordings to identify "essential" language cortex. *EPILEPSIA* 46: 324-324 Suppl. 8, 2005
124. Hasan, K.M., Fletcher, J.M., Ewing-Cobbs, L., Sankar, A., Eluvathingal, T.J., Kramer, L.A., Ashtari, M., Juranel, J., Sarkari, S., Papanicolaou, A.C., A multi-scale whole-brain optimized diffusion tensor imaging of Dyslexics at 3.0T. In press

PRESENTATIONS

Invited Presentations:

1. Papanicolaou, A.C. Cerebral specialization for linguistic operations. State University of New York in Binghamton; Department of Linguistics; November 14, 1976.
2. Papanicolaou, A.C. Neuroelectric correlates of language processing. State University of New York in Binghamton; Departments of Psychology and Linguistics; November 14, 1976.
3. Molfese, D.L.; Papanicolaou, A.C.; Hess, T.M. Neuroelectric correlates of specific word meanings in adults. Conference on Evoked Brain Potentials and Behavior; Downstate Medical Center; New York; May 19, 1977.

4. Papanicolaou, A.C. The neuropsychology of Henri Bergson. The Broca Centennial Conference; Lake Monhok, New York; July 10, 1980.
5. Papanicolaou, A.C. Evoked potential applications in neurosurgery. American Psychological Association; Toronto, Canada; August 24, 1984.
6. Papanicolaou, A.C. Reorganization of cerebral function following lesions to the left hemisphere. Traumatic Brain Injury Conference, sponsored by the National Institute on Disability and Rehabilitation Research (NIDRR); Washington, D.C.; November 2-4, 1987.
7. Papanicolaou, A.C. Hemispheric dominance shift in recovery from aphasia. New Medico Rehabilitation Center; New Orleans, Louisiana; June 15, 1988.
8. Papanicolaou, A.C. Mechanisms of recovery from aphasia. New Medico Rehabilitation Facility; Tyler, Texas; March 10, 1988.
9. Papanicolaou, A.C. Principles of magnetoencephalography. 7th Annual Conference on Biomedical Engineering Research; Houston, Texas; February 17-18, 1989.
10. Papanicolaou, A.C.; Baumann, S.; Rogers, R.; Saydjari, C.; Amparo, E.G.; Eisenberg, H.M. Localization of cortical auditory responses using magnetoencephalography and magnetic resonance imaging. 7th Annual Conference on Biomedical Engineering Research; Houston, Texas; February 17-18, 1989.
11. Papanicolaou, A.C. Imaging of brain function. Psychology Conference, Symposium on Psychophysiological Methods. University of Athens, May 16, 1991.
12. Papanicolaou, A.C. The potential and limits of functional brain imaging. Address delivered at the University of Crete and the University of Patras, Greece, Sept. 1991.
13. Rogers, R.L.; Papanicolaou, A.C.; Basile, L.F.H. Magnetoencephalographic study of the P300 demonstrates two distinct sources during infrequent visual stimulation. Biomedical Engineering Research. 10th Annual Houston Conference, Houston, Texas, March 19-20, 1992.
14. Papanicolaou, A.C. Functional brain imaging through Magnetoencephalography. Memphis State University, September 1992.
15. Papanicolaou, A.C. The rationale and uses of magnetoencephalography. Texas Center for Superconductivity. University of Houston, Sept. 17, 1993.
16. Zouridakis, G., Papanicolaou, A.C. Intraoperative Monitoring. Bioengineering Research Center, University of Houston, 1995.

17. Papanicolaou, A.C. Imaging of Brain Functions. 11th Conference of the Hellenic Society for Neurosciences; November 3, 1995, Metsovo, Greece.
18. Papanicolaou, A.C. Possibilities for Neuropsychological Assessment with Magnetoencephalography. International Neuropsychological Society Conference, Veldhoven, The Netherlands, June 21, 1996 .
19. Papanicolaou, A.C. Functional Brain Mapping through MEG. Psychiatry Grand Rounds, UTMB-Galveston, October 8, 1996.
20. Papanicolaou, A.C. Five Lectures on Applications of Functional Brain Imaging, University of Seville, Spain. December 1996.
21. Imaging Cognition. University of Houston, April 4, 1997.
22. Brain Images and the Human Mind. Public Lecture at Rice University. Hellenic Professional Society, April 13, 1997.
23. Papanicolaou, A.C. Functional Imaging Application to Brain Injury Research. Second World Congress on Brain Injury. Seville, Spain, May 14, 1997.
24. Papanicolaou, A.C. Language and Memory Mapping Using Magneto-encephalographic Technology. Houston Neuropsychological Society, January 8, 1998.
25. Papanicolaou, A.C. Functional Brain Mapping through MEG. Tumor Conference. The University of Texas - M. D. Anderson. Houston, Texas, May 28, 1998.
26. Papanicolaou, A. C. Functional Brain Mapping through MEG. Grand Rounds. The University of Texas Medical Branch. Galveston, Texas, June 10, 1998.
27. Papanicolaou, A.C. Mapping the Language Cortex. 11th International Conference on Biomagnetism. Sendai, Japan, August, 1998.
28. Papanicolaou, A.C. Magnetoencephalography and Some Applications to Developmental Psychology. Biennial Meeting of the Society for Research in child Development, Albuquerque, New Mexico, April 15, 1999.
29. Papanicolaou, A.C. Functional Brain Mapping: Principles and Applications in Neurosurgery and Cognitive Neurosciences. Keynote address. The 14th conference of the Hellenic Society for Neurosciences. Volos, Greece, May 14, 1999.
30. 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 Noninvasive Functional Source Imaging within the Human Brain and Heart; Zagreb, Croatia; September 3-7, 1999.

31. Papanicolaou, A.C. Workshop on Clinical Applications of MEG. 2nd Annual Symposium on Noninvasive Functional Source Imaging within the Human Brain and Heart; Zagreb, Croatia, September 3-7, 1999.
32. Papanicolaou, A.C. Insights into Brain Function and Neural Plasticity using Magnetic Source Imaging and Invasive Mapping Techniques. Workshop on “Biological and Social Determinants of Child Development”; Baker Institute at Rice University and the University of Texas – Houston Medical School, Houston, Texas, January 19, 2000.
33. Papanicolaou, A.C. Functional Brain Imaging through MEG: Applications to Cognitive Neurosciences and to Neurosurgery. Neuroscience Seminars. Brain Research Institute, University of Florida Medical School; Gainesville, Florida, January 21, 2000.
34. Papanicolaou, A.C. MEG Applications to Presurgical Mapping and Dyslexia. MEG Symposium at The Hospital for Sick Children, Toronto, January 17, 2000.
35. Papanicolaou, A.C. Advances in Magnetoencephalography: Brain Sciences Center, University of Minnesota Medical School, Minneapolis, January 18, 2000.
36. Papanicolaou, A.C. Functional Imaging Through MEG: Principles and Applications. Mental Science Institute, Houston, Texas, February 3, 2000.
37. Papanicolaou, A.C. “Magnetoencephalography”. Department of Neurology. Grand Rounds. University of Texas – Houston, Medical School, Houston, Texas, March 17, 2000.
37. Papanicolaou, A.C. “Magnetic Source Imaging of the Epileptic Focus and of Functional Cortex”. Epilepsy Update 2000. University of Texas – Houston, Medical School, Houston, Texas, May 6, 2000.
38. Papanicolaou, A.C. “Lectures on Dyslexia”. Department of Education, Republic of Cyprus. September 6-9, 2000.
39. Papanicolaou, A.C. “Magnetoencephalography: A Tool for Imaging Brain Mechanisms of Higher Functions”. Department of Psychiatry and Behavioral Sciences Lecture Series. University of Texas – Houston, Texas, September 27, 2000.
40. Papanicolaou, A.C. “Neuroimaging studies of dyslexic children”. International Dyslexia Association – Houston Branch – Houston, Texas, October 14, 2000.
41. Papanicolaou, A.C. “Applications of MEG to Cognitive Neurosciences”. 1st Congress of the Greek Association of Psychophysiology. Thessaloniki, June 7, 2001.
42. Papanicolaou, A.C. “Lectures on Neuroimaging”. Graduate program of Cognitive Sciences. University of Athens. May 28-30, 2001.

43. Papanicolaou, A.C. "Neuroimaging the Dyslexic Brain" Houston Branch of the International Dyslexia Association. Houston, Texas. September 29, 2001.
44. Papanicolaou, A.C. "Applications of Magnetoencephalography in Clinical Neurology." Department of Neurology. University of Athens. October 5, 2001.
45. Papanicolaou, A.C. "Principles and Applications-Tutorial on MEG & MEG Applications in Epilepsy." Second Brain Conference 2001, Athens Greece. October 17-20, 2001.
46. Papanicolaou, A.C. "Neurophysiology of Affect." Department of Methodology and History of Science. University of Athens. October 24, 2001.
47. Papanicolaou, A.C. "Presurgical Language Mapping." Department of Neurosurgery, Neurology and Radiology. University of Wisconsin, Madison. November 19, 2001.
48. Papanicolaou, A.C. Special Killam Lecture "Magnetoencephalography: Its Contribution to Clinical Neurology and to Cognitive Neurosciences." Cognitive Neurosciences Seminar. McGill University Montreal Canada. November 29, 2001.
49. Papanicolaou, A.C. Five Lectures on Applications of Functional Brain Imaging, University of Seville, Spain. December 2001.
50. Papanicolaou, A.C. "Functional Imaging." University of Texas Medical School, Houston, Texas. February 18, 2002.
51. Papanicolaou, A.C. "Current MEG Research." Brain Injury Program. The Institute for Rehabilitation and Research (TIRR). Houston Texas, February 21, 2002.
52. Papanicolaou, A.C. "MEG Update." Grand Rounds Department of Neurology, University of Texas Medical School. Houston, Texas. November 22, 2002.
53. Papanicolaou, A.C. "Therapeutic applications of Neuropeptides upon neuropsychiatric disorders." Athens Brain Conference 2002. Athens, Greece. May 9, 2002.
54. Papanicolaou, A.C. "Functional brain imaging with MEG with examples from the study of dyslexia." Athens Brain Conference 2002. Athens, Greece. May 9, 2002.
55. Papanicolaou, A.C. Applications of MAGNETOENCEPHALOGRAPHY to Cognitive Neuroscience. Perspectives on Developmental Cognitive Neuroscience Conference, Brown University, Providence, Rhode Island. May 16-17, 2002.
56. Papanicolaou, A.C. "Neuroimaging." Neurobiology Seminar Series Department of Psychiatry, University of Texas Medical School-Mental Science Institute. Houston, Texas. May 29, 2002.

57. Papanicolaou, A.C. "Early Development and Plasticity of Neurophysiological processes involved in reading." National Dyslexia Research Foundation Conference 2002. Kona, Hawaii. June 12 – 15, 2002.
58. Papanicolaou, A.C. "New Diagnostic Modalities: Magnetoencephalography for Functional Mapping and Epilepsy Surgery." The Fifteenth Annual Epilepsy Symposium. University of Texas Health Science Center-Houston, Texas, July 27, 2002.
59. Andrew C. Papanicolaou. "MEG Mapping of the Brain Mechanisms of Language." SYMPOSIUM 9: The Use of Different Neuroimaging Modalities to Understand Language and Brain Plasticity: Symposium Chair: Andrew C. Papanicolaou. International Organization of Psychophysiology. 11th World Congress of Psychophysiology July 29 – August 3, 2002.
60. Andrew C. Papanicolaou. "BIOMAG 2002 13th International Conference on Biomagnetism." Jena, Germany, August 10-14, 2002.
61. Andrew C. Papanicolaou. "Contributions of MEG to Neurolinguistics." BIOMAG 2002 Satellite Symposium. Leipzig, Germany, August 15, 2002.
62. Papanicolaou, A.C. "Functional Recovery and Brain Plasticity." The 16th Annual William Spencer, M.D. Lectureship. TIRR (The Institute of Rehabilitation and Research) Houston, Texas, October 18, 2002.
63. Papanicolaou, A.C. "Brain and Languages: The Scientific Challenge to Reading Education." National Dyslexia Research Foundation Conference. Johannesburg, South Africa. September 30 – October 4, 2002.
64. Papanicolaou, A.C. "First International Workshop on Magnetoencephalography." Introduction to Magnetoencephalography: Principles and Applications. Houston, Texas. November 7-9, 2002.
65. Papanicolaou, A.C. "Implications of Modern Neurosciences for Enduring Metaphysical Problems." University of Athens, Greece. April 16, 2003.
66. Papanicolaou, A.C. "Dyslexia." 2nd Hellenic Congress of Greek Association of Psychophysiology. Aristotle University of Thessaloniki, Greece. April 18-20, 2003.
67. Papanicolaou, A.C. Lecture on Theories and Emotions. University of Seville, Spain. March 10-11, 2003.
68. Papanicolaou, A.C. "MEG Mapping: An alternative to the WADA procedure." MEG Workshop, Erlangen, May 2-3, 2003.
69. Papanicolaou, A.C. "Biological Basis of Emotion." El Escorial, Spain, August 4-8, 2003.

70. Reite, M. & Papanicolaou, A.C. "Introduction to MEG." EEG & Clinical Neuroscience, 5th Annual Conference, Houston, TX. September 17-21, 2003.
71. Papanicolaou, A.C. National Symposium on Learning Disabilities in English Language Learners. Washington, DC, October 14-15, 2003.
72. Papanicolaou, A.C. The 54th Annual Conference of the International Dyslexia Association Symposium. Imaging the Brain: A New Tool for Overcoming Dyslexia – How Functional Imaging Informs Us About the Neural Basis and Treatment of Dyslexia. "Brain Imaging in Normal and Impaired Reading: A Developmental-Educational Perspective." San Diego, California, November 12-15, 2003.
73. Papanicolaou, A.C. The 54th Annual Conference of the International Dyslexia Association Symposium. Implications of Brain Imaging Research for Instruction Aimed at Orthographic, Phonological and Morphological Word Forms, Levels of Language, Attention/Executive Functions, Working Memory, and Timing and Fluency. "Creating Precise Phonological Word Forms w/ Phonographics and Practicing Orthographic Word Forms through Reading Naturally: Teaching Changes the Brain" San Diego, California, November 12-15, 2003.
74. Papanicolaou, A.C. 1st International Congress on Brain and Behavior. Thessaloniki, Greece, November 20-23, 2003.
75. Papanicolaou, A.C. "Experience and Matter." University of Athens, Athens, Greece, March 3, 2004.
76. Papanicolaou, A.C. "Neuroimaging Studies of Brain Mechanisms of Language." Rice University Linguistics Colloquium, Houston, Texas, September 9, 2004.
77. Papanicolaou, A.C. American Clinical Neurophysiology Society. Clinical Neurophysiology for the 21st Century. "Clinical Controversy: Can MEG and fMRI Replace the Wada Test?" Montreal, Canada, October 1, 2004.
78. Papanicolaou, A.C. Texas Pediatric Neurology Update 2004. "New Diagnostic Tools: Magnetoencephalography (MEG) and Magnetic Source Imaging (MSI)." Austin, TX, November 5, 2004.
79. Papanicolaou, A.C. "Brain, Mind and Culture: Modern Insights into 2,500 year old riddles." Limassol, Cyprus, November 29 - December 3, 2004.
80. Papanicolaou, A.C. UTMSH Department of Psychiatry & Behavioral Science Lecture Series. "Clinical Applications of Magnetoencephalography." Houston, TX, January 12, 2005.

81. Papanicolaou, A.C. "Magnetoencephalographic Mapping of Cerebral Mechanisms of Language." Boston University, Boston, Massachusetts, March 25, 2005.
82. Papanicolaou, A.C. "Brain and consciousness: The dephic society series." National Research Institute, Athens, Greece, April 14, 2005.
83. Papanicolaou, A.C. "What aspects of experience can functional neuroimaging be expected to reveal." The first conference of the International and Multidisciplinary Brain Dynamics and Cognition Network. Izmir, Turkey, May 14-18, 2005.
84. Papanicolaou, A.C. "MEG studies: An update." Grand Rounds-Neurosurgery, University of Texas – Houston, Medical School, Houston, Texas, April 7, 2005.
85. Papanicolaou, A.C. "Can Magnetoencephalography replace the WADA test?" 26th International Epilepsy Congress. Paris, France, August 28-September 1, 2005.
86. Papanicolaou, A.C. "Cortical Reorganization: Clinical and Physiologic Correlates of Recovery." American Academy of Physical Medicine & Rehabilitation 2005 Annual Assembly. Philadelphia, Pennsylvania, October 26-27, 2005
87. Papanicolaou, A.C. "Clinical uses of magnetoencephalographic mapping of the brain mechanisms of language." 26th International Congress of Applied Psychology. Athens, Greece, July 16-21, 2006.
88. Papanicolaou, A.C. "Imaging brain signs of experiences: Possibilities and limitations." Conference and Cultural Center at the University of Patras. Patras, Greece, June 10, 2006.
89. Papanicolaou, A.C. "Neural system mediating human emotions." 7th European Conference on Epileptology. Helsinki, Finland, July 2-6, 2006.
90. Papanicolaou, A.C. "Affective valence-specific spatio-temporal brain activation profiles: A MEG study." 7th European Conference on Epileptology. Helsinki, Finland, July 5, 2006.
91. Papanicolaou, A.C. "Presurgical MEG mapping of the brain mechanisms of language." The 2006 Guangzhou International Workshop on Glioma and Minimally Invasive Functional Neurosurgery. Guangzhou, China, April 9-10, 2006.
92. Papanicolaou, A.C. "Clinical applications of magnetoencephalography." 2006 NCI Workshop for Clinical MEG, Beijing NCI Science and Technology Group, Beijing, China, April 7, 2006.
93. Papanicolaou, A.C. "MEG Live: How to analyze and localize functionally eloquent cortex and epileptic discharges." American Clinical Neuropsychological Society, Chicago, Illinois, November 1-5, 2006.

94. Papanicolaou, A.C. "The contributions of MEG to cognitive neuroscience." University of Houston Colloquium, Houston, Texas, August 31, 2006.
95. Papanicolaou, A.C. "Questioning the "gold standards" of brain mapping." International Society of Brain Electromagnetic Topography, Chieti, Italy, September 27-30, 2006.
96. Papanicolaou, A.C. "Lecture series on MEG and cognitive neurosciences, National University of Athens, Department of History and Philosophy of Sciences, Athens, Greece, October 1-14, 2006.
97. Papanicolaou, A.C. " MEG studies of dyslexia." Pediatric MEG update Meeting, Hospital for Sick Children, Toronto, Ontario, Canada, October 30, 2006.
98. Papanicolaou, A.C. "MEG: understanding the process of recovery from stroke", Rehabilitation Solutions XXII, Houston, Texas, November 1, 2006
99. Papanicolaou, A. C. Workshop co-chair, "Meg Live: How to analyze and localize functionally eloquent cortex and epileptic discharges" American Clinical Neurophysiology Society Annual Meeting, Chicago, Il., November 1-5, 2006
100. Papanicolaou, A. C. MEG/MSI Special Interest Group, Speaker, 1st Annual American Regional Epilepsy Conference, San Diego, California, December 1-5, 2006
101. Papanicolaou, A C. What Functional Neuroimaging should, and what it should not be expected to Reveal, the 1st European Congress of the International Neuropsychiatric Association and the 2nd Mediterranean Congress of the World Federation of Societies of Biological Psychiatry, Athen, Greece, December 7-11, 2006

Peer-Reviewed Presentations:

1. Papanicolaou, A.C.; Molfese, D.L. Evoked potential components related to handedness, processing strategies, and stimulus features. Midwestern Psychological Association Annual Conference; Chicago, Illinois; May 7, 1977.
2. Papanicolaou, A.C.; Molfese, D.L. Latent components of evoked potentials related to phonological and semantic features of verbal stimuli. 93rd Meeting of The Acoustical Society of America; University Park, Pennsylvania; June 10, 1977.
3. Papanicolaou, A.C. Intracerebral dynamics in speech perception. International Neuropsychological Society Conference; Minneapolis, Minnesota; February 4, 1978.

4. Papanicolaou, A.C. Evoked potential correlates of cognitive and linguistic operations. Texas Psychological Association Annual Conference; Houston, Texas; November 5, 1981.
5. Papanicolaou, A.C. Regional cerebral asymmetries during language processing. International Neuropsychological Society Annual Conference; Atlanta, Georgia; February 4, 1981.
6. Papanicolaou, A.C.; Levin, H.S.; Eisenberg, H.M. Evoked potential correlates of verbal encoding following closed head injury. Academy of Aphasia; London, Ontario, Canada; October 12, 1981.
7. Papanicolaou, A.C.; Eisenberg, H.M. Evoked potential correlates of covert articulation. Neuropsychology of Language Annual Conference; Niagara Falls, Ontario, Canada; March 2, 1982.
8. Papanicolaou, A.C.; Levin, H.S.; Eisenberg, H.M. Evoked potential indices of hemispheric specialization in cognitive tasks. American Psychological Association Annual Conference; Washington, D.C.; August 24, 1982.
9. Papanicolaou, A.C.; Levin, H.S.; Eisenberg, H.M.; Moore, B.D. Evoked potential indices of selective hemispheric engagement in phonetic and affective tasks. Annual Meeting of the Academy of Aphasia; New Plaz, New York; October 4, 1982.
10. Papanicolaou, A.C.; Levin, H.S.; Eisenberg, H.M.; Moore, B.D. Hemispheric specialization for cognitive tasks in normal subjects and brain damaged patients: A probe evoked potentials paradigm. International Neuro-psychological Society European Conference; Deauville, France; June 17, 1982.
11. Papanicolaou, A.C.; Levin, H.S.; Eisenberg, H.M.; Moore, B.D. P-300 latency correlates of early recovery from closed head injury. International Neuro-psychological Society European Conference; Lisbon, Portugal; June 15, 1983.
12. Papanicolaou, A.C.; Schmidt, A.L.; Moore, B.D.; Eisenberg, H.M. Cerebral activation profiles for arithmetic and visuospatial tasks. International Neuropsychological Society Annual Meeting; Mexico City, Mexico; February 4, 1983.
13. Loring, D.W.; Papanicolaou, A.C.; Eisenberg, H.M. Cortical evoked potentials in closed head injury. Southwestern Psychological Association; New Orleans, Louisiana; April 19, 1984.
14. Papanicolaou, A.C. An overview of the rationale and the range of applications of the probe paradigm. International Neuropsychological Society; Houston, Texas; February 4, 1984.

15. Papanicolaou, A.C. Bergson and his relevance to modern science. Bergson and Modern Science Conference; Galveston, Texas; February 9-11, 1984.
16. Papanicolaou, A.C. Evoked potentials measure delayed information processing in post-traumatic amnesia. American Association of Neurological Surgeons Annual Meeting; San Francisco, California; April 8-12, 1984.
17. Papanicolaou, A.C. The probe evoked potentials paradigm: Rationale and applications in neuropsychology--a symposium. International Neuropsychological Society; Houston, Texas; February 4, 1984.
18. Papanicolaou, A.C.; Levin, H.S.; Eisenberg, H.M. Evoked potential correlates of post-traumatic amnesia after head injury. Houston Conference on Neurotrauma; Houston, Texas; May 4, 1984.
19. Papanicolaou, A.C.; Loring, D.W.; Eisenberg, H.M. Habituation vs. refractory period hypotheses in the two-tone evoked potential paradigm. International Neuropsychological Society European Conference; Aachen, West Germany; June 13, 1984.
20. Papanicolaou, A.C.; Loring, D.W.; Eisenberg, H.M. Temporal pattern effects on cortical evoked potentials. International Neuropsychological Society European Conference; Aachen, West Germany; June 13, 1984.
21. Deutsch, G.; Papanicolaou, A.C.; Eisenberg, H.M. CBF gradient changes elicited by visual stimulation and visual memory tasks. International Neuropsychological Society Eighth European Conference, Copenhagen, Denmark; June 12-15, 1985.
22. Loring, D.W.; Papanicolaou, A.C.; Eisenberg, H.M. Recovery cycle of auditory evoked potentials in head injury. International Neuropsychological Society; San Diego, California; February 6-9, 1985.
23. Papanicolaou, A.C. The conceptual foundations of neuropsychology. Symposium on Neuropsychology as an Emerging Discipline. Southwestern Psychological Association; Austin, Texas; April, 1985.
24. Papanicolaou, A.C.; Loring, D.W.; Eisenberg, H.M.; Contreras, F.L. Brainstem potentials in comatose head injury patients. International Neuropsychological Society Eighth European Conference, Copenhagen, Denmark; June 12-15, 1985.
25. Papanicolaou, A.C.; Loring, D.W.; Raz, N.; Eisenberg, H.M. Effects of stimulus intensity on the P-300. International Neuropsychological Society Eighth European Conference, Copenhagen, Denmark; June 12-15, 1985.
26. Papanicolaou, A.C.; Raz, N.; Loring, D.W.; Eisenberg, H.M. Suppression of brainstem evoked responses during speech production. International Neuropsychological Society; San Diego, California; February 6-9, 1985.

27. Deutsch, G.; Papanicolaou, A.C.; Loring, D.W.; Eisenberg, H.M. Left hemisphere blood flow during acoustic, phonetic and semantic target tasks. International Neuropsychological Society, Denver, Colorado; February 4, 1986.
28. Papanicolaou, A.C.; Deutsch, G.; Loring, D.W.; Eisenberg, H.M. Spectral EEG and rCBF measures of language-specific hemispheric activation. Annual Conference on the Neuropsychology of Language (BABBLE), Niagara Falls, Ontario; March 28-29, 1986.
29. Papanicolaou, A.C.; Loring, D.W.; Eisenberg, H.M. Evoked potential correlates of hemispheric asymmetries during a speech shadowing task. International Neuropsychological Society, Denver, Colorado; February 4, 1986.
30. Papanicolaou, A.C.; Moore, B.D.; Mahurin, R.; Levin, H.S.; Eisenberg, H.M. Electrophysiological data suggest right hemisphere role in recovery from aphasia. International Neuropsychological Society European Conference, Veldhoven, The Netherlands; June 23, 1986.
31. Deutsch, G.; Papanicolaou, A.C.; Bourbon, W.T.; Eisenberg, H.M. Visuospatial tasks compared via activation of regional cerebral blood flow. International Neuropsychology Society Meeting, Washington, D.C.; February, 1987.
32. Moore, B.; Papanicolaou, A.; Eisenberg, H.M. Right hemisphere role in recovery from aphasia: probe evoked potential and dichotic listening evidence. International Neuropsychological Society 15th Annual Meeting; February, 1987.
33. Papanicolaou, A.C.; Wilson, G.F.; De Rego, P.; Davis, I.; Eisenberg, H.M. Magnetoencephalography to the study of hemispheric specialization for cognitive operations. International Neuropsychological Society 1987 Meeting, Barcelona, Spain; July 4, 1987.
34. Deutsch, G.; Papanicolaou, A.C. Cerebral blood flow during cognitive tasks in recovering stroke patients. International Neuropsychology Society 16th Annual Meeting, New Orleans, Louisiana; January 27-30, 1988.
35. Papanicolaou, A.C. Discussant Symposium. Brainstem auditory evoked responses. International Neuropsychology Society 16th Annual Meeting, New Orleans, Louisiana; January 27-30, 1988.
36. Papanicolaou, A.C.; Moore, B.D. Effects of selective attention on somatosensory evoked potentials. International Neuropsychology Society 16th Annual Meeting, New Orleans, Louisiana; January 27-30, 1988.
37. Papanicolaou, A.C.; Moore, B.D.; Deutsch, G.; Levin, H.S.; Eisenberg, H.M. Evidence for right hemisphere involvement in recovery from aphasia. 40th Annual Meeting, American Academy of Neurology, Cincinnati, Ohio; April 17-23, 1988.

38. Papanicolaou, A.C.; Moore, B.D.; Levin, H.S.; Eisenberg, H.M. Evoked potential and dichotic listening evidence for right hemisphere involvement in recovery from aphasia. Academy of Aphasia, Montreal, Canada; October 16-18, 1988.
39. Baumann, S.; Rogers, R.; Papanicolaou, A.C. Replicability for localization of the P1, N1 and P2 components of the auditory evoked response in an unselected group of subjects. 7th International Conference on Biomagnetism, New York, New York; August, 1989.
40. Busch, C.; Wilson, G.; Orr, C.; Papanicolaou, A.C. Crossmodal interaction of auditory stimulus presentation on the visual evoked magnetic response. 7th International Conference on Biomagnetism, New York; August, 1989.
41. Moore, B.D.; Bloom, D.; Papanicolaou, A.C. Cortical potential shifts during response preparation differentiate fast from slow responding normals and head injured subjects. International Neuropsychological Society, Vancouver, Canada; February 8-11, 1989.
42. Papanicolaou, A.C.; Baumann, S.B.; Rogers, R.L.; Saydjari, C.; Amparo, E.G. Eisenberg, H.M. Validation of MEG localization against the MRI. International Neuropsychological Society; Antwerp, Belgium; July, 1989.
43. Papanicolaou, A.C.; Moore, B.D.; Bloom, D.; Gary, H.E. Contingent negative variation and evoked potential correlates of performance in reaction time tasks. International Neuropsychological Society, Vancouver, Canada; February 8-11, 1989.
44. Papanicolaou, A.C.; Baumann, S.B.; Rogers, R.L.; Saydjari, C.; Amparo, E.G.; Eisenberg, H.M. Localization of cortical auditory responses using MEG and MRI. 7th Annual Conference on Biomedical Engineering Research, Houston, Texas, February, 1989.
45. Rogers, R.L.; Papanicolaou, A.C.; Baumann, S.; Saydjari, C.; Eisenberg, H.M. Non-stationary dynamics of sequential magnetic dipole changes associated with N100 auditory evoked responses. 7th International Conference in Biomagnetism, New York, New York; August, 1989.
46. Wilson, G.; Busch, C.; Papanicolaou, A.C.; Oliver, C.; Orr, C. Cortical resource allocation during mental rotation determined by magneto- and electro-encephalography. 7th International Conference on Biomagnetism, New York, New York; August, 1989.
47. Baumann, S.; Papanicolaou, A.C.; Rogers, R.L. Magnetoencephalographic localization of the P300 evoked response. American Geriatric Society, Atlanta, Georgia, May 17-20, 1990.
48. Eisenberg, H.M.; Papanicolaou, A.C.; Rogers, R.L.; Baumann, S.B. Localization of epileptic foci by analysis of magnetic fields. Texas Surgical Society, Fall Meeting; 1990.

49. Papanicolaou, A.C.; Rogers, R.L.; Baumann, S.B.; Eisenberg, H.M. MEG localization of sensory response sources. American Society of Neuroimaging; March 13-18, 1990.
50. Papanicolaou, A.C.; Rogers, R.L.; Baumann, S.B.; Saydjari, C.; Eisenberg, H.M. Source localization of auditory responses using magnetoencephalography and magnetic resonance imaging. International Neuropsychological Society; Kissimmee, Florida; February 17, 1990.
51. Papanicolaou, A.C.; Rogers, R.L.; Baumann, S.B.; Eisenberg, H.M. Characterization of the P300 sources using magnetoencephalography. 4th International Evoked Potentials Symposium, Toronto, Canada; 1990.
52. Papanicolaou, A.C.; Rogers, R.L.; Baumann, S.B.; Alagarsamy, S.; Eisenberg, H.M. Magnetoencephalography localization of the P-300. INS European Conference; 1990.
53. Rogers, R.L.; Papanicolaou, A.C.; Baumann, S.B.; Saydjari, C.; Eisenberg, H.M. Neuromagnetic mapping of dynamic processing in the auditory cortex. International Neuropsychological Society; Kissimmee, Florida; February 17, 1990.
54. Rogers, R.L.; Baumann, S.B.; Papanicolaou, A.C. Neuromagnetic studies of P3. Biomedical Engineering and Neuroscience Group. University of Houston, Houston, Texas; November, 1990.
55. Papanicolaou, A.C.; Eisenberg, H.M. Magnetoencephalographic localization of interictal spike sources. Society of University Surgeons, Galveston, Texas; February, 1991.
56. Baumann, S.B.; Papanicolaou, A.C.; Levin, H.S.; Bertolino, L.A.; Rogers, R.L.; Masel, B.E. Auditory steady state responses in subjects with Alzheimer's Disease. 8th International Conference on Biomagnetism, Munster, Federal Republic of Germany; August 18-24, 1991.
57. Papanicolaou, A.C.; Baumann, S.B.; Rogers, R.L. Source estimation of omitted tone evoked magnetic fields. 8th International Conference on Biomagnetism, Munster, Federal Republic of Germany; August 18-24, 1991.
58. Rogers, R.L.; Papanicolaou, A.C.; Baumann, S.B.; Eisenberg, H.M. Neuromagnetic evoked visual fields following infrequent stimulus omissions during visual stimulation. 8th International Conference on Biomagnetism, Munster, Federal Republic of Germany; August 18-24, 1991.
59. Rogers, R.L.; Papanicolaou, A.C.; Baumann, S.B.; Eisenberg, H. Neuromagnetic studies indicate two distinct sources corresponding to the visual P3 evoked response. International Neuropsychological Society, 20th Annual Meeting, San Diego, California; February 5-8, 1992.

60. Papanicolaou, A.C. (Chair) Brain imaging and neuropsychology: Functional or dysfunctional? Symposium during International Neuropsychological Society, 20th Annual Meeting, San Diego, California; February 5-8, 1992.
61. Papanicolaou, A.C.; Rogers, R.L.; Basile, L.F.H.; Baumann, S.B.; Eisenberg, H.M. Magnetoencephalography reveals two distinct sources associated with the P300 during visual oddball paradigm. International Neuropsychological Society, 14th European Conference, Durham, England; July 8-11, 1992.
62. Rogers, R.L.; Papanicolaou, A.C.; Basile, L.F.H. Magnetoencephalographic study of the P300 demonstrates two distinct sources during infrequent visual stimulation. Biomedical Engineering Research, 10th Annual Houston Conference, Houston, Texas; March 19-20, 1992.
63. Basile, L.F.H.; Rogers, R.L.; Bourbon, W.T.; Papanicolaou, A.C. Task-specific slow fields from human frontal cortex. Biomag '93 Vienna; Aug. 15-21, 1993.
64. Rogers, R.L.; Basile, L.F.H.; Papanicolaou, A.C.; Bourbon, W.T. Evoked magnetic fields in extrastriate visual cortex during motion detection. Biomag '93 Vienna; Aug. 15-21, 1993.
65. Papanicolaou, A.C.; Bourbon, W.T.; Plenger, P.M. The effect of transcranial magnetic stimulation on the perception of speech sounds. International Neuropsychological Society Sixteenth European Conference, Angers, France, 1994.
66. Breier, J.I.; Plenger, P.M.; Wheless, J.W.; Thomas, A.B.; Brookshire, B.L.; Curtis, V.L.; Papanicolaou, A.C.; Willmore, L.J. Differential effects of early onset seizure activity on figural and spatial memory in patients with temporal lobe epilepsy. Annual Meeting of the American Epilepsy Society, Baltimore, MD, 1995.
67. Plenger, P.M.; Breier, J.I.; Wheless, J.W.; Thomas, A.B.; Brookshire, B.L.; Papanicolaou, A.C.; Thomas, A.B.; 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, 1995.
68. 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 for re-organization of spatial and figural memory following early seizure activity. American Epilepsy Society, 1995.
69. Papanicolaou, A.C.; Basile, L.F.H. Functional mapping of the human frontal lobes through MEG. First International Conference on Functional Mapping of the Human Brain, Paris, June 27-30, 1995.
70. Basile, L.F.H.; Simos, P.G.; Tarkka, I.M.; Brunder, D.G.; Papanicolaou, A.C. Task-specific magnetic fields from the left human frontal cortex. Tenth International Conference in Biomagnetism 96, Albuquerque, NM.

71. Simos, P.G.; Basile, L.F.H.; Papanicolaou, A.C.; Source localization of the N400 response in a sentence-reading paradigm using evoked magnetic fields and magnetic resonance imaging. Tenth International Conference in Biomagnetism 96, Albuquerque, NM.
72. Breier, J.I.; Plenger, P.M.; Brookshire, B.L.; Wheless, J.W.; Thomas, A.B.; Papanicolaou, A.C.; Willmore, L.J. 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.
73. Plenger, P.M.; Breier, J.I.; 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.
74. Plenger, P.M.; Breier, J.I.; Wheless, J.W.; Brookshire, B.L.; Papanicolaou, A.C.; Thomas, A.B.; Willmore, L.J. Sensitivity and specificity of measure of executive functioning in an epilepsy. Submitted to AES Annual Meeting.
75. 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.
76. 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.
77. Zouridakis, G., Papanicolaou, A.C. Evidence for hemispheric functional organization of the auditory cortex. Annual Fall Meeting, Biomedical Engineering Society, San Diego, California, 1997.
78. G. Zouridakis, P.G. Simos, Papanicolaou, A.C. Functional Organization of the Auditory Cortex: Evidence From Whole-Head MEG. Fifteenth Annual Houston Conference on Biomedical Engineering Research, February 13, 1997.
79. G. Zouridakis, P.G. Simos, Papanicolaou, A.C. Intraoperative Electro-physiological Monitoring. Fifteenth Annual Houston Conference on Biomedical Engineering Research, February 14, 1997.
80. Fuchs, K.; Breier, J.I.; Brookshire, B.L.; Wheless, J.W.; Thomas, A.B.; Papanicolaou, A.; Willmore, L.J. The relationship between memory and language performance during the

- intracarotid amobarbital procedure. Platform presentation to be presented at the annual meeting of the American Epilepsy Society, Boston, MA; December, 1997.
81. Zouridakis, G., Breier, J.I., Papanicolaou, A.C. Language mapping via magnetoencephalography. Houston Psychological Society, January 1998.
 82. Fuchs, K.; Breier, J.I.; Brookshire, B.L.; Wheless, J.W.; Thomas, A.B.; Papanicolaou, A.; Willmore, L.J. Language laterality affects Wada test performance. Platform presentation to be presented at the annual meeting of the International Neuropsychological Society, Honolulu, Hawaii, February, 1998.
 83. Zouridakis, G., Simos, P.G., Breier, J.I., Papanicolaou, A.C. Assessment of functional hemispheric asymmetries in a visual language task via MEG. 16th Annual Conference on Biomedical Engineering Research, Houston, Texas, April 1998.
 84. Kramer, L.; Gupta, R.G.; Hatfield, G.A.; Wheless, J.; Papanicolaou, A. Magnetic Resonance Imaging in the Evaluation of Epilepsy. Scientific Exhibit presented at the Annual meeting of the American Society of Neuroradiology, Philadelphia, Pennsylvania, May, 1998.
 85. Papanicolaou, A.; Simos, P.; Breier, J.; Zouridakis, G. Language Mapping with Magnetoencephalography (MEG). 4th International Conference on Functional Mapping of the Human Brain, Montreal, Quebec, Canada, June, 1998.
 86. Papanicolaou, A.C. Simos, P.G., Breier, J.I., Zouridakis, G. Language mapping with magnetoencephalography (MEG). 21st INS Meeting, July, 1998.
 87. 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, 1998.
 88. Papanicolaou, A.C.; Breier, J.I.; Gormley, W.; Simos, P.G.; Wheless, J.W.; Constantinou, J.C.; Willmore, L.J. Comparison of language mapping using extra- and intraoperative electrocortical stimulation and magnetoencephalography. 52nd Annual Meeting of the American Epilepsy Society, December 1998.
 89. Breier, J.I.; Simos, P.G.; Zouridakis, G.; Papanicolaou, A.C. Reliability of MEG lateralization of receptive language areas. 52nd Annual Meeting of the American Epilepsy Society, December 1998.
 90. Papanicolaou, A.C.; Simos, P.G.; Breier, J.I.; Zouridakis, G. Language mapping with magnetoencephalography. Twenty-First Annual International Neuro-psychological Society Meeting, Budapest, Hungary; July 1998.

91. 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 1998.
92. 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. Poster presented at the Annual Meeting of the International Neuropsychological Society, February, 1998.
93. Papanicolaou, A.C.; Simos, P.G.; Breier, J.I.; Zouridakis, G. Mapping of language specific cortex with MEG. 11th International Conference on Biomagnetism, Biomag98, August, 1998.
94. Zouridakis, G., Simos, P.G., Breier, J.I., Maggio, W.W., Gormley, W.B., Wheless, J.W., Constantinou, J.E.C., Papanicolaou, A.C. Language Mapping. 17th Annual Conference on Biomedical Engineering Research, Houston, Texas, 1999.
95. 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. Poster presented at the 17th Annual Houston Conference on Biomedical Engineering Research, February 10-13, 1999.
96. 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.
97. 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 1999 meeting of the Rocky Mountain Association.
98. Barron, B., Lamki, L., Wheless, J., Bhosale, P., Papanicolaou, A., Simos, P., Su, J. Localization of Epileptogenic Foci: The Utility of Magnetoencephalography (MEG) and Brain SPECT. 44th Annual Meeting of the Southwestern Chapter, Society of Nuclear Medicine, Santa Fe, NM, March 1999. (Oral Presentation) Clin. Nucl. Med 24(3): 214, 1999.
99. Kramer, L.A., Gupta, R.G., Yeakley, J.W., Papanicolaou, A. Magnetic Resonance Imaging in the Evaluation and Treatment of Epilepsy. 99th Annual Meeting, American Roentgen Ray Society, New Orleans, Louisiana, May 9-14, 1999.
100. 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.

101. Papanicolaou, A.C.; Simos, P.; Zouridakis, G.; Breier, J.I.; Gormley, W.B.; Constantinou, J.E.; Wheless, J.W.; Maggio, W.W. Mapping the Language Cortex with MSI. 23rd International Epilepsy Congress; Prague, Czech Republic, September 12-17, 1999.
102. 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. 23rd International Epilepsy Congress; Prague, Czech Republic, September 12-17, 1999.
105. Papanicolaou, A.C. Applications of MEG to Cognitive Development., Inter-Institute Invitational Conference: National Institute of Child Health and Human Development and National Institute of Neurological Disorders and Stroke. Leasburg, Virginia, September 30, 1999.
106. 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 29th Annual Meeting, Miami, Florida, October 1999.
107. Papanicolaou, C.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, Miami Beach, Florida, October 23-28, 1999.
108. Simos, P.G.; Fletcher, J.; Breier, J.I.; Bergman, 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, Miami, Beach, Florida, October 23-28, 1999.
109. Mullani, N.A., Van Horn, G., Papanicolaou, A., Hassenbush, S., Lamki, L.M., Barron, B.J., wilde, M., Kim, E., Gould, K.L. Brain Blood Flow and Metabolism Imaging of Parkinson's Disease Patients Pre and Post Pallidotomy – Preliminary Results. Radiological Society of North America, Chicago, IL, November, 1999. (Scientific Paper).
110. Barron, B.J., Lamki, L.M., Bhosale, P., Papanicolaou, A., Wheless, J., Simos, P. Clinical Utility of Brain SPECT and Magnetoencephalography (MEG) in the Localization of Epileptogenic Foci. Radiological Society of North America, Chicago, IL, November 1999. (Scientific Exhibit).
111. 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.

112. Papanicolaou, A.C., Evidence for Dyslexia in MEG Neuroimaging, National Foundation for Functional Brain Imaging Conference; Albuquerque, NM, December 10-11, 1999.
113. 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.
114. 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. 23rd Mid Year Annual Meeting of the International Neuropsychological Society; Brussels, Belgium; July 12-15, 2000.
115. 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. 23rd Mid Year Annual Meeting of the International Neuropsychological Society; Brussels, Belgium; July 12-15, 2000.
116. 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. 28th Annual Meeting of the International Neuropsychological Society, Denver, Colorado, February 2000.
117. Zouridakis G., Simos P.G., and Papanicolaou A.C. Functional Organization of the Auditory Cortex: Evidence From Whole-Head Magnetoencephalography, Eighteenth Annual Conference on Biomedical Engineering Research in Houston, 2000.
118. Breier, J.I., Simos, P.G., Wheless, J.W., Constantinou, J.E.C., Baumgartner, J.E., Venkataraman, V., Papanicolaou, A.C. Language Dominance in Children as Determined by Magnetic Source Imaging and the Intracarotid Amobarbital Procedure: A Comparison. Presented at the 29th Annual Meeting of the Child Neurology Society, St. Louis, MO. October 27, 2000.
119. Wheless, J.W., Breier, J.I., Simos, P.G., Constantinou, J.E., Baumgartner, J.E., Venkataraman, V., Papanicolaou, A.C. Language Dominance in Children as Determined by Magnetic Source Imaging and the Intracarotid Anobarbital Procedure: A Comparison. Presented at the 54th Annual meeting of the American Epilepsy Society, December 4, 2000, Los Angeles, CA.
120. Castillo, E.M., Davis, R.N., Simos, P.G., Breier, J.I., and Papanicolaou, A.C. Is the Left Superior Temporal Gyrus Specialized for Speech Processing? An Investigation Using Magnetoencephalography. Nineteenth Annual Houston Conference on Biomedical Engineering Research, February 8-9, 2001.

121. Davis, R.N., Castillo, E.M., Simos, P.G., Breier, J.I., and Papanicolaou, A.C. Mapping of Receptive Language Cortex in English-Spanish Bilinguals Using Magnetoencephalography. Nineteenth Annual Houston Conference on Biomedical Engineering Research, February 8-9, 2001.
122. Davis, R.N., Castillo, E.M., Simos, P.G., Breier, J.I., and Papanicolaou, A.C. Language mapping using MSI: An overview. Poster presented at the Sixth Annual Public Forum for Brain Awareness Week, Houston, TX. March 2001.
123. Papanicolaou, A.C., Simos, P.G., Breier, J.I., Castillo, E.M., Davis, R.N., Wheless, J. W., Venkataraman, V., Kim, H.L., and Maggio, W.W. MEG: A method comparable to the Wada procedure for language laterality assessment. The Annual Meeting of the American Epilepsy Society and American Clinical Neurophysiology Society. Philadelphia, PA. December 3 & 5, 2001.
124. Ishibashi, H., Simos, P.G., Castillo, E.M., Maggio, W.W., Wheless, J.W., Kim, H.L., Venkataraman, V., Sanders, D.K., Breier, J.I., Zhang, W., Davis, R.N., and Papanicolaou, A.C. Detection and significance of focal, interictal slow wave activity for localization of the primary epileptogenic region using Magnetoencephalography. The Annual Meeting of the American Epilepsy Society and American Clinical Neurophysiology Society. Philadelphia, PA. December 3 & 5, 2001.
125. Goldman, A.M., Wheless, J.W., Venkataraman, V.J., Kim, H.L., and Papanicolaou, A.C. Magnetoencephalography Mislocalizes Interictal Epileptogenic Activity In Mesial Temporal Lobe Epilepsy. The Annual Meeting of the American Epilepsy Society and American Clinical Neurophysiology Society. Philadelphia, PA. November 30-December 5, 2001.
126. Castillo, E.M., Davis, R.N., Simos, P.G., Breier, J.I., Ishibashi, H., Zhang, W., and Papanicolaou, A.C. Dynamics of activation in the medial temporal lobe structures during encoding and recognition. Thirtieth Annual Meeting of the International Neuropsychological Society. Toronto, Ontario, February 13-16, 2002.
127. Castillo, E.M., Davis, R.N., Simos, P.G., Breier, J.I., Fitzgerald, M.E., Ishibashi, H., Zhang, W., and Papanicolaou, A.C. Two brain mechanisms mediating different levels of word processing and memory performance. Thirtieth Annual Meeting of the International Neuropsychological Society. Toronto, Ontario, February 13-16, 2002.
128. Papanicolaou, A. C., Simos, P. G., Breier J. I., Castillo, E. M., & Davis, R. N. Language mapping with magnetoencephalography (MEG) yields results comparable to the Wada test. Thirtieth Annual Meeting of the International Neuropsychological Society. Toronto, Ontario, February 13-16, 2002.
129. Hideaki Ishibashi, M.D., Ph.D., Panagiotis G. Simos, Ph.D., James W. Wheless, M.D., Wenbo Zhang, M.D., Ph.D., Howard L. Kim, M.D., James E. Baumgartner, M.D., Eduardo M. Castillo, Ph.D., William W. Maggio, M.D., Vijay Maggio, M.D., Joshua I

- Breier, Ph.D., Andrew C Papanicolaou, Ph.D. Magnetoencephalographic features of cortical developmental disorders. AES (the American Epilepsy Society) 2002 Annual Meeting, December 6-11, Seattle.
130. Wenbo Zhang, M.D., Ph.D., Panagiotis G. Simos, Ph.D., Hideaki Ishibashi, M.D., Ph.D., James W. Wheless, M.D., Eduardo M. Castillo, Ph.D., Joshua I Breier, Ph.D., James E. Baumgartner, M.D., Andrew C Papanicolaou, Ph.D. MEG-Assisted Identification of Subtle Cortical Dysplasia. AES (the American Epilepsy Society) 2002 Annual Meeting, December 6-11, Seattle.
 131. Vijay Maggio, M.D., Yu-tze Ng, M.D., Panagiotis G. Simos, Ph.D., Andrew C Papanicolaou, Ph.D., James W. Wheless, M.D. Correlation of Ictal Magnetoencephalography with Ictal Electroencephalographic Recordings. AES (the American Epilepsy Society) 2002 Annual Meeting, December 6-11, Seattle.
 132. Papanicolaou, A.C., Breier, J.I., Patarraia, E., Billingsly, R.L., Castillo, E.M., Sarkari, S., Simos, P.G. Replacement of Intracarotid Amobarbital Testing with MEG. MEG Workshop, May 2-3, 2002, Erlangen.
 133. Patarraia, E., Simos, P.G., Wheless, J., Maggio, V., Maggio, W., Molfese, D.L., Papanicolaou, A.C. Assessment of the localization accuracy of Magnetoencephalography in the presurgical determination of the epileptogenic zone. MEG Workshop, May 2-3, 2002, Erlangen.
 134. Breier, J.I., Castillo, E., Boake, C., Billingsley, R., Maher, L.M., Noser, E., Francisco, G., Papanicolaou, A.C. Maps of Receptive Language Function in Patients with Chronic Aphasia after Stroke using Magnetoencephalography. The 32nd Annual Meeting of the International Neuropsychological Society, February 4-7, 2004, Baltimore, Maryland.
 135. Castillo, E.M., Simos, P.G., Wheless, J.W., Baumgartner, J.E., Breier, J.I., Sarkari, S., Fitzgerald, M.E., Papanicolaou, A.C. Mapping sensorimotor function in patients with perirolandic lesions: a comprehensive MEG protocol. 14th International Conference on Biomagnetism, August 8-12, 2004, Boston, Massachusetts.
 136. Castillo, E.M., and Papanicolaou, A.C. Cortical representation of dermatomes: MEG-derived maps recorded after tactile stimulation. 14th International Conference on Biomagnetism, August 8-12, 2004, Boston, Massachusetts.
 137. Patarraia, E., Castillo, E.M., Simos, P.G., Billingsley-Marshall, R.L., Sarkari, S., Breier, J.I., Papanicolaou, A.C. Relative merits of MEG for identification of the epileptogenic zone as compared with invasive EEG. 14th International Conference on Biomagnetism, August 8-12, 2004, Boston, Massachusetts.
 138. Simos, P.G., Sarkari, S., & Papanicolaou, A.C. Early development of neurophysiological processes involved in normal reading and reading disability. 14th International Conference on Biomagnetism, August 8-12, 2004, Boston, Massachusetts.

139. Katsaloulis, P., Simos, P., Francis, D., Papanicolaou, A., Kakadiaris, I., Theoharis, T. 3D visualization of MEG activation records within a semi-transparent talairach model brain. Paper to be presented at the (GMVAG) 1st International Conference on Geometric Modeling, Visualization & Graphics in conjunction with 8th Joint Conference on Information Sciences (JCIS), July 21-26, 2005, Salt Lake City, Utah.
140. Slater, J. D., McManis, M. H., Clarke, D., Perkins, F. F., McGregor, A. L., Wheless, J. W., Breier, J. I., Castillo, E. M., Papanicolaou, A. C. Magnetic source localization in patients with idiopathic generalized epilepsies. American Epilepsy Society and the American Clinical Neurophysiology Society Joint Annual Meeting, December 2-6, 2005, Washington, D.C.
141. Frye, R. E., Witzel, T., Ahlfors, S., Hamalainen, M., Liederman, J., Papanicolaou, A., Halgren, E., Dynamic connectivity during syllable perception revealed by Granger causality. 17th Annual Meeting of the International Society for Brain Electromagnetic Topography, September 27-30, 2006, Chieti, Italy.
142. Frye, R.E., McGraw-Fisher, J., Coty, A., Ahlfors, S., Halgren, E., Papanicolaou, A., Liederman, J., Organization of large-scale spatiotemporal networks in young adults with a history of dyslexia. 17th Annual Meeting of the International Society for Brain Electromagnetic Topography, September 27-30, 2006, Chieti, Italy.