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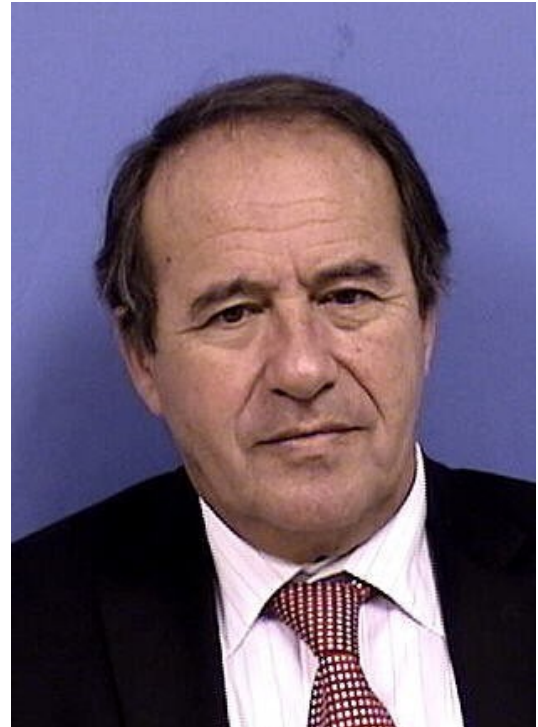
## **CURRICULUM VITAE**

**Andrew C. Papanicolaou**

### **Professor and Chief**

Department of Pediatrics  
Division of Clinical Neurosciences,  
Professor  
Department of Anatomy and Neurobiology  
University of Tennessee  
Co-Director  
Neuroscience Institute  
LeBonheur Hospital

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Memphis TN 38105, USA



### **Director**

Neuropsychology Graduate Program  
Neurology Department  
Aegineteion Hospital  
The National University of Athens  
Athens, GREECE

## **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

(2006-2011)

**Professor**

Department of Pediatrics  
Division of Developmental Pediatrics and  
Departments of Neurosurgery and Neurology  
The University of Texas - Houston Medical School

**Clinical Professor**

Department of Psychology  
University of Houston  
Houston, Texas 77002

**Adjunct Professor**

Department of Linguistics  
Rice University  
Houston, Texas 77005

**Director**

Neuropsychology Graduate Program  
Neurology Department  
The National University of Athens

**Director**

Center for Clinical Neurosciences  
[www.uth.tmc.edu/clinicalneuro](http://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

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

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

(1993-2006)

**Professor** 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).

(1990-1993)

**Professor** 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.

(1986-1990)

**Associate Professor** 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.

(1981-1986)

**Assistant Professor** 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.

(1980-1981)

**Senior Research Associate** 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.

(1978-1980)

**Adjunct Assistant Professor** 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.

(1974-1977)

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

(1972-1974)

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

## HONORS AND AWARDS

Dean's 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, **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 2P50 HD052117-06. National Institutes of Health, \$1,199,865 (12/01/2011 – 11/30/2016).

**Co- Principal Investigator** – “Mission Connect Mild TBI Translational Research Consortium” \$2,684,840, (7/1/2008 – 6/30/13).

**Co- Principal Investigator** - "Robotic-Assisted Rehabilitation Therapy for Motor Weakness after Stroke" \$149,036, (5/01/2007 – 5/01/2009).

**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 N1H. \$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.

President, International Society for the Advancement of Clinical MEG (2008-2010)

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**

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

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

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

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

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

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

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

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

#### **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**

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

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

**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:**

Σύναψις (Psychiatry and Neuroscience Review) (since 2005)

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

Developmental Neuropsychology (since 1993)

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

International Journal of Neuroscience (1987-1996)

**Guest Editor:**

Journal of Neurolinguistics (Spring 2003)

Journal of Clinical Neurophysiology (March/April 2000)

**Ad Hoc Reviewer:**

Cerebral Cortex (1999-Present)

Brain Research Bulletin (1998-Present)

Experimental Brain Research (1993-Present)

Brain and Cognition (1990-Present)

Archives of Neurology (1988-Present)

Electroencephalography and Clinical Neurophysiology (1988-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:**

Chairman: Second biannual conference of the **International Society for the Advancement of Clinical Magnetoencephalography** Athens, Greece. (Sept. 3-5, 2009)

Establishment of the **Graduate Program in Clinical Neuropsychology** at the National University of Athens (2009)

Establishment of the **International Society for the Advancement of Clinical MEG** (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)

### **POST DOCTORAL FELLOWS TRAINED**

Simos, Akis. Department of Neurosurgery, University of Texas Health Science Center, Houston, TX – 1995-1996.

Castillo, Eduardo. Department of Neurosurgery, University of Texas Health Science Center, Houston, TX – 2000-2001.

Maestu, Fernando. Department of Neurosurgery, University of Texas Health Science Center, Houston, TX – 2000-2001.

Ishibashi, Hideaki. Department of Neurosurgery, University of Texas Health Science Center, Houston, TX – 2001-2002.

Zhang, Wenbo. Department of Neurosurgery, University of Texas Health Science Center, Houston, TX – 2001-2003.

Sarkari, Shirin. Department of Neurosurgery, University of Texas Health Science Center, Houston, TX – 2001-2003.

George, Mary Reeni. Department of Neurosurgery, University of Texas Health Science Center,

Houston, TX – 2001-2003.

Patarai, Ekaterina. Department of Neurosurgery, University of Texas Health Science Center, Houston, TX – 2002-2004.

McManis, Mark. Department of Neurosurgery, University of Texas Health Science Center, Houston, TX – 2003-2005.

Men, Disheng. Department of Neurosurgery, University of Texas Health Science Center, Houston, TX – 2004-2006.

Alvarez, Paula. Department of Neurosurgery, University of Texas Health Science Center, Houston, TX – 2004-2006.

Novak, Barbra. Department of Pediatrics, University of Texas Health Science Center, Houston, TX – 2006-2007.

Zhimin, Li. Department of Pediatrics, University of Texas Health Science Center, Houston, TX – 2008-2011.

Hoskinson, Meg. Department of Pediatrics, University of Texas Health Science Center, Houston, TX – 2006-2008

Rezaie, Roozbeh. Department of Pediatrics, University of Texas Health Science Center, Houston, TX – 2008-2011.

Moser, Dana. Department of Pediatrics, University of Texas Health Science Center, Houston, TX – 2009-2011.

## **BIBLIOGRAPHY**

### **Books:**

Papanicolaou, A.C. et al. Functional Brain Imaging in Cognitive Neurosciences. Oxford University Press (scheduled for publication in 2013)

Papanicolaou, A.C. et al. Clinical Magnetoencephalography and Magnetic Source Imaging. Cambridge University Press, (2009)

Papanicolaou, A.C. et al. The Amnesias (Greek Edition) Οι Αμνησίες. Πανεπιστημιακές Εκδόσεις Κρήτης, 2007.

Papanicolaou, A.C. et al. The Amnesias: A Clinical Textbook of Memory Disorders.

Oxford University Press, 2006.

Papanicolaou, A.C. Emoción: Una reconsideración sobre la teoría somática. Monografías de las Revista Española de Neuropsicología, Enero-Junio 2004.

Papanicolaou, A.C. Plato: Critique of Pragmatism. (Πλάτωνος Ρεόντων Έλεγχος) Αθήνα, Εξάντας 2002.

Zouridakis, G., and Papanicolaou, A.C. A Concise Guide to Intraoperative Monitoring, CRC Press, December 2000.

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

Papanicolaou, A.C. Emotion: A reconsideration of the somatic theory. New York: Gordon and Breach and Harwood, 1989.

Papanicolaou, A.C., Gunter, P.A.Y. (Eds.) Bergson and Modern Thought: Towards a Unified Science. New York: Harwood Academic Publishers, 1987.

#### **Articles in newspapers:**

1. Ανδρέας Κ. Παπανικολάου. Η Νευροεπιστήμη χαρτογραφεί τον εγκέφαλο και όχι τις προθέσεις του. ΚΑΘΗΜΕΡΙΝΗ, ειδικές εκδόσεις (Ποιος είμαι). Φεβρουάριος 2007.
2. Ανδρέας Κ. Παπανικολάου. Τι σημαίνει Ελληνισμός Κ. ΚΑΘΗΜΕΡΙΝΗ (Πατριδογνωσία). 20 Απριλίου 2008.
3. Ανδρέας Κ. Παπανικολάου. Αναζητώντας το νου. ΒΗΜΑ ΙΔΕΩΝ. Ιούνιος 2008.
4. Ανδρέας Κ. Παπανικολάου. Ηδονή -οδύνη -παρόρμηση ΒΗΜΑ ΙΔΕΩΝ. Αύγουστος 2009.

#### **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(10):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. *Int J Neurosci*, 24(2):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(6):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(1-2):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. *Int 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. *Int J Psychophysiol*, 3(1):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(2):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(2):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(3-4):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(3-4):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



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110. Zhang, W., Simos, P., Ishibashi, H., Castillo, E.M., Breier, J., Baumgartner, J.E., Wheless, J.W., Papanicolaou, A.C. (2002). Neuroimaging features of epidermal Nervus Syndrome. Meeting of the American Society of Neuroradiology. 2002, ASNR (American Society of Neuroradiology) 40th Annual Meeting, Vancouver, Canada, May 13-17.
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112. 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. (2003). MEG is comparable to the Wada procedure for language laterality assessment. *Epilepsia*, 44(Suppl. 9), 251-252. Paper presented at the Annual meeting of the American Epilepsy Society, Boston, MA., Dec. 5 – 10.
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119. Castillo, E.M., Papanicolaou, A.C. (2004). Cortical representation of dermatomes: MEG-derived maps recorded after tactile stimulation. 14<sup>th</sup> International Conference on Biomagnetism, Boston, August 8-12.
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121. Patariaia, E., Simos, P.G., Billingsley, R., Castillo, E., Sarkari, S., Breier, J., and Papanicolaou, A.C. (2004). Comparison of MEG with invasive EEG in Temporal Lobe Epilepsy. 8<sup>th</sup> Congress of the EFNS, Paris, France, September 4-7.
122. Castillo, E.M., Breier, J.I., Wheless, J.W., Baumgartner, J.E., Patariaia, E., Papanicolaou, A.C. (2004). Is linguistic function still there after multiple subpial transactions over Wernicke's area? American Epilepsy Society, 58<sup>th</sup> Annual Meeting, New Orleans, December 3-8.
123. Patariaia, E., Billingsley-Marshall, R.L., Castillo, E.M., Breier, J.I., Simos, P.G., Sarkari, S., Fitzgerald, M., Clear, T., Papanicolaou, A.C. (2004). Organization of Receptive Language-Specific Cortex Before and After Left Temporal Lobectomy. American Epilepsy Society, 58<sup>th</sup> Annual Meeting, New Orleans, December 5-8.
124. Breier, J.I., Simos, P.G., Castillo, E.M., Patariaia, E., Billingsley, R.L., Wheless, J.W., Papanicolaou, A.C. (2004). Abnormal Activation of Language Cortex in Patients With Chronic Seizures and Academic Achievement Deficit. American Epilepsy Society, 58<sup>th</sup> Annual Meeting, New Orleans, December 5-8.

125. Castillo, E.M., Breier, J.I., Wheless, J.W., Slater, J.D., Tandon, N., Baumgarther, J.E., McManis, M.H., Papanicolaou, A.C. (2005). 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. *Epilepsia*, 46 (Suppl. 8), 324.
126. Pataria, E., Simos, P.G., Billingsley-Marshall, R.L., Castillo, E.M., Breier, J.I., Sarkari, S., Papanicolaou, A.C. (2005). 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. *Epilepsia*, 46 (Suppl. 8), 327.
127. 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. (2005). 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. *Epilepsia*, 46 (Suppl. 8), 327.
128. Breier, J. I., Maher, L., Castillo, E. M., Novak, B., Papanicolaou, A. (2005). Neurophysiological Changes in Receptive Language Cortex with Age Using Magnetoencephalography. *J Int Neuropsychol Society*.
129. Papanicolaou, A.C. (2006). Cerebral mechanism of language: magnetoencephalographic studies. *Annals of General Psychiatry* 2006, 5 (Suppl.1)(28 February 2006).
130. Castillo, E.M., Breier, J.I., Sarkari, S., Slater, J., Papanicolaou, A.C. (2006). Mapping Eloquent Cortex Using MEG: Clinical Findings after 800 Procedures. American Epilepsy Society. 60th Annual Meeting. San Diego, December 2-6.
131. Castillo, E.M., Tarancon, T., Russi, A., Papanicolaou, A.C. (2006). Contributions of MEG to the correct presurgical identification of the epileptogenic tuber. American Epilepsy Society. 60th Annual Meeting. San Diego, December 2-6.
132. Castillo, E.M., Meng, D., Breier, J.I., Pearman, M., Boake, C., Papanicolaou, A.C. (2006). Atypical patterns of somatosensory representation after stroke. *Biomag 2006 - 15th International Conference on Biomagnetism*. August 20 - 26, Vancouver, BC, Canada.
133. Castillo, E.M., Men, D., Breier, J., Boake, C., McManis, M., Pearlman, M., Papanicolaou, A.C. (2006). Does slow oscillatory activity reflect cortical diaschisis in subcortical stroke? *Biomag 2006 - 15th International Conference on Biomagnetism*. August 20 - 26, Vancouver, BC, Canada.

134. Castillo, E., Sarkari, S., McManis, M., Papanicolaou, A.C. (2006). Transcallosal connectivity during touch perception in children with spina bifida. International Neuropsychological Society meeting (INS) From Plasticity to Rehabilitation. Zurich, Switzerland, July 26-30.
135. 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. (In Press). A multi-scale whole-brain optimized diffusion tensor imaging of Dyslexics at 3.OT. ISMRM.
136. Slater, J. D., Darnall, C. K., Kalamangalam, G.P., Li, Z., Passaro, A., Papanicolaou, A.C. (2007). Stability of Magnetic Source Imaging of Receptive Language at Varying Levels of Alertness. 61st Annual Meeting of the American Epilepsy Society, Philadelphia, PA, November 30-December 4.
137. Castillo, EM., A. Passaro, A., Li, Z, Slater, J., Papanicolaou, AC. Patterns of spike propagation in typical and atypical variants of benign Rolandic epilepsy. American Epilepsy Society. 61th Annual Meeting. Phyladelphia, December 2-6, 2006. *Epilepsia* 0 Suppl. 0 (Abst. 2.223;), 2007
138. Slater, J.D., Darnell, C.K., Kalamangalam, G.P., Li, Z., Passaro, A., Papanicolaou, A.C. (2007). Stability of Magnetic Source Imaging of Receptive Language at Varying Levels of Alertness. American Epilepsy Society 61<sup>st</sup> Annual Meeting, Philadelphia, Pa., November 30-December 4.
139. Castillo, EM. Slater, JI., Papanicolaou, AC. (2007) Modeling MEG signals: clinical validity of estimates for epilepsy evaluation. Special interest groups: Magnetoencephalography. American Epilepsy Society. 61th Annual Meeting. Philadelphia, December 2-6.
140. Castillo, EM., Men, D., Garza, H., Boake, C., Li, Zhimin., Passaro, A., Papanicolaou, AC. (2009) Changes in cortical oscillatory activity after stroke: a follow-up MEG study. International Neuropsychological Society meeting, INS. Atlanta, Georgia February 11-14.
141. Pollonini, L., Patidar, U., Situ, N., Rezaie, R., Papanicolaou, A.C., Zouridakis, G., Functional Connectivity Networks in the Autistic and Healthy Brain Assessed using Granger Causality. 32<sup>nd</sup> Annual International Conference of the IEEE Engineering in Medicine and Biology Society, August 31 – September 4, 2010, Buenos Aires, Argentina, 1:1730-1733, 2010.

## **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. Papanicolaou, A.C. "Imaging Cognition". University of Houston, April 4, 1997.
22. Papanicolaou, A.C. "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 Magnetoencephalographic 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 14<sup>th</sup> 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". 2<sup>nd</sup> 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. 2<sup>nd</sup> 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.
38. 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.
  39. Papanicolaou, A.C. “Lectures on Dyslexia”. Department of Education, Republic of Cyprus. September 6-9, 2000.
  40. 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.
  41. Papanicolaou, A.C. “Neuroimaging studies of dyslexic children”. International Dyslexia Association – Houston Branch – Houston, Texas, October 14, 2000.
  42. Papanicolaou, A.C. “Applications of MEG to Cognitive Neurosciences”. 1<sup>st</sup> Congress of the Greek Association of Psychophysiology. Thessaloniki, June 7, 2001.
  43. Papanicolaou, A.C. “Lectures on Neuroimaging”. Graduate program of Cognitive Sciences. University of Athens. May 28-30, 2001.
  44. Papanicolaou, A.C. “Neuroimaging the Dyslexic Brain” Houston Branch of the International Dyslexia Association. Houston, Texas. September 29, 2001.
  45. Papanicolaou, A.C. “Applications of Magnetoencephalography in Clinical Neurology.” Department of Neurology. University of Athens. October 5, 2001.
  46. Papanicolaou, A.C. “Principles and Applications-Tutorial on MEG & MEG Applications in Epilepsy.” Second Brain Conference 2001, Athens Greece. October 17-20, 2001.
  47. Papanicolaou, A.C. “Neurophysiology of Affect.” Department of Methodology and History of Science. University of Athens. October 24, 2001.
  48. Papanicolaou, A.C. “Presurgical Language Mapping.” Department of Neurosurgery, Neurology and Radiology. University of Wisconsin, Madison. November 19, 2001.
  49. Papanicolaou, A.C. Special Kill am Lecture “Magnetoencephalography: Its Contribution to Clinical Neurology and to Cognitive Neurosciences.” Cognitive Neurosciences Seminar. McGill University Montreal Canada. November 29, 2001.

50. Papanicolaou, A.C. "Five Lectures on Applications of Functional Brain Imaging", University of Seville, Spain. December 2001.
51. Papanicolaou, A.C. "Functional Imaging." University of Texas Medical School, Houston, Texas. February 18, 2002.
52. Papanicolaou, A.C. "Current MEG Research." Brain Injury Program. The Institute for Rehabilitation and Research (TIRR). Houston Texas, February 21, 2002.
53. Papanicolaou, A.C. "MEG Update." Grand Rounds Department of Neurology, University of Texas Medical School. Houston, Texas. November 22, 2002.
54. Papanicolaou, A.C. "Therapeutic applications of Neuropeptides upon neuropsychiatric disorders." Athens Brain Conference 2002. Athens, Greece. May 9, 2002.
55. Papanicolaou, A.C. "Functional brain imaging with MEG with examples from the study of dyslexia." Athens Brain Conference 2002. Athens, Greece. May 9, 2002.
56. Papanicolaou, A.C. "Applications of MAGNETOENCEPHALOGRAPHY to Cognitive Neuroscience". Perspectives on Developmental Cognitive Neuroscience Conference, Brown University, Providence, Rhode Island. May 16-17, 2002.
57. Papanicolaou, A.C. "Neuroimaging." Neurobiology Seminar Series Department of Psychiatry, University of Texas Medical School-Mental Science Institute. Houston, Texas. May 29, 2002.
58. 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.
59. 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.
60. Papanicolaou, A.C. "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. 11<sup>th</sup> World Congress of Psychophysiology July 29 – August 3, 2002.
61. Papanicolaou, A.C. "BIOMAG 2002 13<sup>th</sup> International Conference on Biomagnetism." Jena, Germany, August 10-14, 2002.

62. Papanicolaou, A.C. "Contributions of MEG to Neurolinguistics." BIOMAG 2002 Satellite Symposium. Leipzig, Germany, August 15, 2002.
63. Papanicolaou, A.C. "Functional Recovery and Brain Plasticity." The 16<sup>th</sup> Annual William Spencer, M.D. Lectureship. TIRR (The Institute of Rehabilitation and Research) Houston, Texas, October 18, 2002.
64. 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.
65. Papanicolaou, A.C. "First International Workshop on Magnetoencephalography." Introduction to Magnetoencephalography: Principles and Applications. Houston, Texas. November 7-9, 2002.
66. Papanicolaou, A.C. "Implications of Modern Neurosciences for Enduring Metaphysical Problems." University of Athens, Greece. April 16, 2003.
67. Papanicolaou, A.C. "Dyslexia." 2<sup>nd</sup> Hellenic Congress of Greek Association of Psychophysiology. Aristotle University of Thessaloniki, Greece. April 18-20, 2003.
68. Papanicolaou, A.C. "Lecture on Theories and Emotions". University of Seville, Spain. March 10-11, 2003.
69. Papanicolaou, A.C. "MEG Mapping: An alternative to the WADA procedure." MEG Workshop, Erlangen, May 2-3, 2003.
70. Papanicolaou, A.C. "Biological Basis of Emotion." El Escorial, Spain, August 4-8, 2003.
71. Reite, M. & Papanicolaou, A.C. "Introduction to MEG." EEG & Clinical Neuroscience, 5th Annual Conference, Houston, TX. September 17-21, 2003.
72. Papanicolaou, A.C. National Symposium on Learning Disabilities in English Language Learners. Washington, DC, October 14-15, 2003.
73. Papanicolaou, A.C. The 54<sup>th</sup> 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. 1<sup>st</sup> 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 21<sup>st</sup> 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. Castillo, E.M., Wheless, J.W., Papanicolaou, A.C. "MEG: Outcome studies". Special interest groups. American Epilepsy Society. 58th Annual Meeting. New Orleans, December 3 - 8, 2004.
81. Castillo, E.M., Wheless, J.W., Papanicolaou, A.C. "Clinical Workshop: Magnetoencephalography". Annual meeting American Clinical Neurophysiology Society, Montreal, Canada, September, 2004.
82. Castillo, E.M., Breier, J.I., Wheless, J.W., Patariaia, 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". 6<sup>th</sup> European Congress on Epileptology. Vienna, May 30<sup>th</sup> -June 3rd..2004.
83. Papanicolaou, A.C. UTMSH Department of Psychiatry & Behavioral Science Lecture Series. "Clinical Applications of Magnetoencephalography." Houston, TX, January 12, 2005.
84. Papanicolaou, A.C. "Magnetoencephalographic Mapping of Cerebral Mechanisms of Language." Boston University, Boston, Massachusetts, March 25, 2005.
85. Papanicolaou, A.C. "Brain and consciousness: The dephic society series." National

Research Institute, Athens, Greece, April 14, 2005.

86. 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.
87. Papanicolaou, A.C. "MEG studies: An update." Grand Rounds-Neurosurgery, University of Texas – Houston, Medical School, Houston, Texas, April 7, 2005.
88. Papanicolaou, A.C. "Can Magnetoencephalography replace the WADA test?" 26<sup>th</sup> International Epilepsy Congress. Paris, France, August 28-September 1, 2005.
89. 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
90. Papanicolaou, A.C. "Clinical uses of magnetoencephalography mapping of the brain mechanisms of language." 26<sup>th</sup> International Congress of Applied Psychology. Athens, Greece, July 16-21, 2006.
91. 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.
92. Papanicolaou, A.C. "Neural system mediating human emotions." 7<sup>th</sup> European Conference on Epileptology. Helsinki, Finland, July 2-6, 2006.
93. Papanicolaou, A.C. "Affective valence-specific spatio-temporal brain activation profiles: A MEG study." 7<sup>th</sup> European Conference on Epileptology. Helsinki, Finland, July 5, 2006.
94. 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.
95. Papanicolaou, A.C. "Clinical applications of magnetoencephalography." 2006 NCI Workshop for Clinical MEG, Beijing NCI Science and Technology Group, Beijing, China, April 7, 2006.
96. 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.

97. Papanicolaou, A.C. "The contributions of MEG to cognitive neuroscience." University of Houston Colloquium, Houston, Texas, August 31, 2006.
98. Papanicolaou, A.C. "Questioning the "gold standards" of brain mapping." International Society of Brain Electromagnetic Topography, Chieti, Italy, September 27-30, 2006.
99. 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.
100. Papanicolaou, A.C. " MEG studies of dyslexia." Pediatric MEG update Meeting, Hospital for Sick Children, Toronto, Ontario, Canada, October 30, 2006.
101. Papanicolaou, A.C. "MEG: understanding the process of recovery from stroke", Rehabilitation Solutions XXII, Houston, Texas, November 1, 2006.
102. 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.
103. Papanicolaou, A. C. "MEG/MSI Special Interest Group", Speaker, 1<sup>st</sup> Annual American Regional Epilepsy Conference, San Diego, California, December 1-5, 2006.
104. Papanicolaou, A. C. "What Functional Neuroimaging should, and what it should not be expected to Reveal", the 1<sup>st</sup> European Congress of the International Neuropsychiatric Association and the 2<sup>nd</sup> Mediterranean Congress of the World Federation of Societies of Biological Psychiatry, Athens, Greece, December 7-11, 2006.
105. Papanicolaou, A. C. 35<sup>th</sup> Annual International Neurological Meeting, Portland, Oregon, February 7 – February 10, 2007.
106. Papanicolaou, A.C. "Neuroimaging in Psychiatry" Grand Rounds. Dept. of Psychiatry, Baylor College of Medicine, Houston, Texas, March 28, 2007.
107. Papanicolaou, A.C. 33<sup>rd</sup> Annual Panhellenic Medical Congress, Athens, Greece, May 2, 2007.
108. Papanicolaou, A.C. "Applications of MEG to the Study of Language and its Disorders" 9<sup>th</sup> European Conference on Psychological Assessment in Thessaloniki, Greece, May 3-6, 2007.
109. Papanicolaou, A.C. "Pre-surgical mapping with MEG." Brain Tumor Conference. M.D. Anderson Cancer Center, Houston, Texas, May 15, 2007.



110. Papanicolaou, A.C., 4-D Neuroimaging Annual International Users Group, Denver, Colorado, June 6-9, 2007.
111. Papanicolaou, A.C., "Reading and the Brain". National Center for Reading First Technical Assistance, Regional Reading First Directors' Meeting, Seattle, WA Oct. 30, 2007.
112. Papanicolaou, A.C., "Neuroimaging and the quest for brain signs of consciousness". Hellenic Society of Neurosciences, Thessaloniki, November 30, 2007.
113. Papanicolaou, A.C., "Critical issues in the applications of Neuroimaging to Cognitive Neurosciences". 3<sup>rd</sup> International Brain and Behavior Congress, Thessaloniki, November 30, 2007.
114. Papanicolaou, A.C., "Open challenges in MEG." 2008 IBIS retreat, University of Houston, Houston, TX, March 8, 2008.
115. Papanicolaou, A.C., "Clinical Applications of MEG". Ohio State Grand Rounds, Ohio State University, Columbus, Ohio, August 7, 2008.
116. Papanicolaou, A.C., "Applications of MEG in clinical practice". INA-WFSBP Congress 2008, Athens, Greece, October 16, 2008.
117. Papanicolaou, A.C., "Clinical Applications of MEG". ECON2008 9<sup>th</sup> Joint Annual Conference of the Indian Epilepsy Association and the India Habitat Center, 4-D Neuroimaging, New Delhi, India, October 18-20, 2008.
118. Papanicolaou, A.C., "Presurgical functional brain mapping with MEG: Rationale and consequences." Inaugural Symposium, Universite de la Mediterranee, Marseille, France, October 29, 2008.
119. Papanicolaou, A.C., "Viable alternatives to the WADA procedure." SEEEG/WCNS Annual Meeting, Park City, Utah, March 27, 2009.
120. Papanicolaou, A.C., "Genetics and Neurobiology of Reading Disability" Symposium, Society for Research in Child Development, Denver, CO, April 3, 2009.
121. Castillo, EM., Men, D., Garza, H., Boake, C., Li, Zhimin., Passaro, A., Papanicolaou, AC. Normalization of mu Rhythms and improvement in motor function after stroke. International Neuropsychological Society meeting, INS. Atlanta, Georgia February 11-14, 2009.

122. Papanicolaou, A.C. "MEG Assessment of hemispheric dominance for language : towards replacing the WADA procedure, 24th Annual Mtg. of Japan Biomagnetism & Bioelectronmagnetics, May 27-29, 2009.
123. Papanicolaou, A.C., "Functional Neuroimaging in Cognitive Psychology and Neurosciences" Rice Cog Tea, Houston, TX, September 30, 2009.
124. Papanicolaou, A.C., "The Range and the Limits of Functional Neuroimaging". The Brain: Function, Imaging and Repair GAIA Centre Athens, Greece, October 19-21, 2009.
125. Papanicolaou, A.C., "Consciousness and its Measures". NeuroMath Workshop Human Brain Dynamics, Limassol, Cyprus, November 29-December 1, 2009.
126. Papanicolaou, A.C., "Contributions of MEG to the Study of Developmental Disorders". Brain-Behavior GEP Talk at TCH, Houston, Texas, March 2, 2010.
127. Papanicolaou, A.C., "Use of MEG in Presurgical Funtional Brain Mapping". BIOMAG 2010 Satellite Event, Interactive Workshop: "MEG in Clinical Practice", Dubrovnik, Croatia, March 28, 2010.
128. Papanicolaou, A.C., "The Frontier of Functional Brain Imaging". Daedalus-BIOVISION International Conference. Bibliotheca Alexandrina. Alexandria, Egypt, April 14, 2010.
129. Papanicolaou, A.C., "Presurgical Language Mapping in Epilepsy". 4<sup>th</sup> Asian Epilepsy Surgery Congress, Taipei, Taiwan, September 3-5, 2010.
130. Papanicolaou, A.C., Castillo, E.M., "Defining the Relation between the Irritative Ictal Onset Zones: an MEG/iEEG Study". 4<sup>th</sup> Asian Epilepsy Surgery Congress, Taipei, Taiwan, September 3-5, 2010.
131. Papanicolaou, A.C., "MEG:Present and Future". Chang Gung University Memorial Hospital, Taipei, Taiwan, September 3<sup>rd</sup> , 2010.
132. Papanicolaou, A.C., "Techniques of Language Mapping in Epilepsy". Institute of Brain Science, National Yang-Ming University, Taipei, Taiwan, September 3-5, 2010.
133. Papanicolaou, A.C., Castillo, E.M., "Simultaneous Recordings of Interictal Discharges Through MEG and Subdural Electrodes (iEEG)". 29<sup>th</sup> International Congress of Clinical Neurophysiology, Kobe, Japan, October 28-November 1, 2010.

134. Papanicolaou, A.C., "Presurgical Language Lateralization". 29<sup>th</sup> International Congress of Clinical Neurophysiology, Kobe, Japan, October 28-November 1, 2010.
135. Papanicolaou, A.C., "the role of Magnetoencephalography in research on Child Development" CANDLE Brain Awareness Week conference, Memphis, TN March 22, 2012.
136. Papanicolaou, A.C., Applications of MEG in Psychiatric research. Department of Psychiatry Grand Rounds. The University of Tennessee Medical School. March 27, 2012.
137. Papanicolaou, A.C. Detection of Autism through resting and task-related neuronal networks. Dup15q Alliance meeting . Boston, August 9-10, 2012

**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 Plaza, 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 Neuropsychological 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.
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