

Panagiotis Simos, Ph.D.

Date of Birth: November 9, 1967

Current Position: Professor of Developmental Neuropsychology
Department of Psychology, University of Crete, Greece

Education

University of Crete, Department of Social Studies	B. A.-Major in Psychology(1990)
Southern Illinois University	M.A. in Psychology (1993)
Southern Illinois University	Ph.D. in Experimental Psychology- Biopsychology (1995)
University of Texas-Houston, Medical School	Post-doctoral Fellowship in Clinical Neurophysiology (1996)

Academic Positions

1991-1995	Research Assistant, Department of Psychology, Southern Illinois University.
1995-1996	Post-doctoral Fellow, Department of Neurosurgery, University of Texas-Houston.
1996-2001	Assistant Professor, Department of Neurosurgery, The University of Texas-Houston, Medical School,
2001-2003	Associate Professor, Department of Neurosurgery, The University of Texas-Houston, Medical School.
2003-2008	Associate Professor, Department of Psychology, University of Crete, Greece.
2003-2004	Director, Graduate Program in Clinical Psychology, Department of Psychology, University of Crete, Greece.
2004-2005	Director, Graduate Programs in School and Health Psychology, Department of Psychology, University of Crete, Greece.
2004-2005 & 2008-2009	Vice Chairman, Department of Psychology, University of Crete, Greece.
2008-present	Professor, Department of Psychology, University of Crete, Greece.

EDITORIAL POSITIONS

Associate Editor: Psychology (Greece)

Editorial Board member, Developmental Neuropsychology

Ad hoc reviewer:

Aging, Neuropsychology and Cognition, Biological Psychiatry, Brain, Brain and Cognition, Brain and Language, Brain Research, Brain Research Bulletin, Cerebral Cortex, Clinical Neurophysiology, Cognitive Brain Research, Epilepsia, Experimental Brain Research, Journal of Clinical Psychiatry, Journal of Cognitive Neuroscience, Journal of the International Neuropsychological Society, Journal of Neuropsychology, Learning and Memory, Learning Disabilities Quarterly, Learning Disabilities: A Contemporary Journal, Neuropsychologia, Neuroreport, Neuroimage, Neuroscience, Proceedings of the National Academy of Sciences, Biological Psychology, Clinical EEG and Neuroscience, Contemporary Psychology (Book Review)

Israel Science Foundation (Grant Reviews)

Academy of Finland (Grant Reviews)

Special Emphasis Review Panel, Child Development and Behavior Branch at the National Institute of Child Health and Human Development (2002)

Biobehavioral & Behavioral Sciences Subcommittee, Child Development and Behavior Branch at the National Institute of Child Health and Human Development (2004)

Medical Research Council (UK; 2004)

National Science Foundation (2009)

Ad hoc committee member, Evaluation Committee of Private Universities, Republic of Cyprus, 2010-11

Ad hoc evaluator of National grants for Doctoral Research “Heracleitos”, Ministry of Education, Greece, 2009

Ad hoc evaluator of National grants for College Practica, Ministry of Education, Greece, 2009

FEDERAL/NATIONAL GRANTS AWARDED

Co-PI Project PA2, Applied Neuroscience and Neurobehavioral Research Center, Research Promotion Foundation, Republic of Cyprus & European Regional Development Fund. June 2010- June 2014. Direct Costs €27,000.

Co-Investigator - A coordinated International and Multidisciplinary action on the experience of time (TIMELY). European Cooperation in the field of Scientific and Technical Research (COST), EU RTD Framework Programme.

Principal Investigator – EPEAEK Program, "Development and Standardization of Screening Measures for Attention and Executive Functions for Elementary School Children", Greek Ministry of Education (Greece), Direct Costs €200,000 (7/20/06 – 12/31/07).

Principal Investigator - RFA-NS-02-011, "Integration of MSI/fMRI Studies of Reading". RFA-NS-02-011 National Institute of Neurological Disorders and Stroke, Direct costs \$978,681 (9/30/02 - 6/30/05).

Principal Investigator - RO1 HD30885, "Biological and Behavioral Variation in the Language Development of Spanish-Speaking Children" Project 6. National Institute of Child Health and Development. Direct costs \$785,000 (09/01/01 –08/31/05).

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

Co-Investigator – RO1 HD38346-01, "Brain Activation Profiles in Dyslexia: A MEG Study" National Institute of Child Health and Development. Total award: \$1,685,813 (7/01/2000 – 6/30/2004).

Co-Investigator - RO1 NS37941-01, "Contributions of MEG to the Surgical Management of Epilepsy." National Institute of Neurological Disorders and Stroke. Total award: \$2,674,447 (12/01/1999 – 11/30/2003).

Co-Investigator - REC-9979968, "Early Development of Reading Skills: A Cognitive Neuroscience Approach." Project 2: "Brain Mapping with MEG." National Science Foundation. Total award: \$1,035,062 (10/1/99-9/30/02).

Invited talks and conference scientific committee member

Scientific Committee Member, MEG.Applications Conference Xylocastro, Greece September, 2005.

Scientific Committee Member, 2nd Biannual of the International Society for the Advancement of Clinical Magnetoencephalography (ISACM), Athens, Greece, September, 2009.

The International Dyslexia Association, 52nd Annual Conference, Albuquerque, New Mexico, October 24-27, 2001 “Aberrant Brain Activation Profiles In Kindergarten Children At Risk For Dyslexia”

Houston Branch of the International Dyslexia Association, Pathways to Potential V, October 14 2000, Houston, Texas “Neuroimaging Studies of Dyslexic Children”

Society for Research in Child Development Symposium on Developmental Neurobiology of Oral and Written Language, April 24-27 2003, Tampa, Florida. “Early development and plasticity of neurophysiological processes involved in reading”

Interdisciplinary Language and Cognition program, Northwestern University, Evanston, Illinois, March 3, 2003 "Functional brain imaging in normal and impaired reading: A developmental perspective”

The Netherlands Organization for Scientific Research Workshop on Prevention, intervention, and treatment of developmental dyslexia, Amsterdam, The Netherlands, November 20-21, 2003 “Brain Imaging in Normal and Impaired Reading – A Developmental-Educational Perspective“

University of Alabama, Medical School, Comprehensive Epilepsy Program, Birmingham, Alabama. Guest Lecture Series, March 25, 2003 “MEG Applications: Pre-Surgical Mapping of Sensory-Motor & Language Functions”

Houston Neuropsychological Society. Key Note Address, 1999

PUBLICATIONS IN INTERNATIONAL PEER-REVIEWED JOURNALS

(>1860 citations in Scopus [excluding citations by all co-authors])

1. Simos, P.G., Sideridis, G., & Mouzaki, A. Chatzidaki, A., & Tzevelekou, M. Vocabulary growth in second language among immigrant school-aged children in Greece. *Journal of Psycholinguistic Research*, in press.
2. Panou, T., Simos, P., Mastorodemos, V., Papadaki, E., & Plaitakis, A. Verbal episodic memory for passages in relapsing remitting multiple sclerosis: Proactive interference or serial position effects? *Behavioral Neurology*, in press
3. Simos, P.G., Rezaie, R., & Fletcher, J.M., Juranek, J., Papanicolaou, A.C. (2011). Neural correlates of sentence reading in children with reading difficulties. *Neuroreport*, 22, 674-8.
4. Protopapas, A., Sideridis, G., & Mouzaki, A. Simos, P.G., & Morgan, P. (2011). Matthew Effects in Reading Comprehension: Myth or Reality? *Journal of Learning Disabilities*, 44, 402-20.
5. Simos, P.G., Papanicolaou, A.C., Castillo, E.M., Juranek, J., Cirino, P., Rezaie, R., & Fletcher, J.M. (2011). Brain mechanisms for reading and language processing in spina bifida meningomyelocele: A combined magnetic source- and structural magnetic resonance imaging study. *Neuropsychology*, 25, 590-601.
6. Rezaie, R., Simos, P.G., Fletcher, J.M., Cirino, P., Vaughn, S., & Papanicolaou, A.C. (2011). Temporo-parietal brain activity as a longitudinal predictor of response to educational interventions among middle school struggling readers. *Journal of the International Neuropsychological Society*, 17, 875-85.
7. Simos, P., Sideridis, G.D., Protopapas, A., & Mouzaki, A. (2011). Psychometric Evaluation of a Receptive Vocabulary Test for Greek Elementary Students. *Assessment for Effective Intervention*, Epub July 18, DOI: 10.1177/1534508411413254.
8. Rezaie, R., Simos, P.G., Fletcher, J.M., Juranek, J., Cirino, P., Li, Z., Passaro, A.D., & Papanicolaou, A.C. (2011). The timing and strength of regional brain activation associated with word recognition in children with reading difficulties. *Frontiers in Behavioral Neuroscience*, 5(45), 1-12.
9. Rezaie, R., Simos, P.G., Fletcher, J.M., Cirino, P., Vaughn, S., & Papanicolaou, A.C. Engagement of temporal lobe regions predicts response to educational interventions in adolescent struggling readers. *Developmental Neuropsychology*, in press.
10. Simos, P.G., Rezaie, R., Fletcher, J.M., Juranek, J., Passaro, A.D., Li, Z., Cirino, P., & Papanicolaou, A.C. (2011). Functional disruption of the brain mechanism for reading: Effects of comorbidity and task difficulty among children with developmental learning problems. *Neuropsychology*, 24, 520-534.
11. Rezaie, R., Simos, P.G., Papanicolaou, A.C., Castillo, E.M., Moser, D.C., Passaro, A.D., & Fletcher, J.M. (2011). Time course of electromagnetic activity associated with detection of rare events. *Neuroreport*, 22, 136-140.

12. Tsiaras, V., Simos, P.G., Rezaie, R., Sheth, B.R., Garyfallidis, E., Castillo, E.M., & Papanicolaou, A.C. (2011). Extracting Biomarkers of Autism from MEG based Resting State Functional Connectivity Networks. *Computers in Biology and Medicine*, *Epub May 16*.
13. Vourkas, M., Micheloyannis, S., Simos, P.G., Rezaie, R., Fletcher, J.M., Cirino, P.T., & Papanicolaou, A.C. (2011). Dynamic task-specific brain network connectivity in children with severe reading difficulties. *Neuroscience Letters*, *488*, 123-128.
14. Simos, P.G., Kasselimis, D., & Mouzaki, A. (2011). Age, gender, and education effects on vocabulary measures in Greek. *Aphasiology*, *25*, 492-504.
15. Simos, P.G., Kasselimis, D., & Mouzaki, A. (2011). Effects of demographic variables and health status on brief vocabulary measures in Greek. *Aphasiology*, *25*, 475-491.
16. Tsirka, V., Simos, P.G., Vakis, A., Vourkas, M., Arzoglou, V., Syrmos, N., Stavropoulos, S., & Micheloyannis, S. (2010). Material-specific difficulties in episodic memory tasks in mild traumatic brain injury. *International Journal of Neuroscience*, *120*, 184-91.
17. Tsirka, V., Simos, P.G., Vakis, A., Kanatsouli, K., Vourkas, M., Erimaki, S., Pachou, E., Stam, C.J., & Micheloyannis, S. (2011). Mild traumatic brain injury: Graph-model characterization of brain networks for episodic memory. *International Journal of Psychophysiology*, *79*, 89-96.
18. Protopapas, A., Simos, P.G., Sideridis, G., & Mouzaki, A. The components of the simple view of reading: A confirmatory factor analysis. *Reading Psychology*, *in press*.
19. Protopapas, A., Mouzaki, A., Sideridis, G., Kotsolakou, A., & Simos, P.G. The role of vocabulary in the context of the simple view of reading. *Reading and Writing Quarterly*, *in press*.
20. Sideridis, G. & Simos, P.G. (2010). What is the Actual Correlation Between Expressive and Receptive Measures of Vocabulary? Approximating the Sampling Distribution of the Correlation Coefficient Using the Bootstrapping Method. *International Journal of Educational and Psychological Assessment*, *5*, 117-133.
21. Panou, T., Simos, P., Mastorodemos, V., Fassaraki, Ch., Plaitakis, A. Variables affecting memory deficits in relapsing-remitting multiple sclerosis. (2009). *Internet Journal of Neurology* *11* (1)
(http://www.ispub.com/journal/the_internet_journal_of_neurology/volume_11_number_1_5/article/variables_affecting_memory_deficits_in_relapsing_remitting_multiple_sclerosis.html)
22. Simos, P.G., Pugh, K., Mencl, E., Frost, S., Fletcher, J.M., Sarkari, S., & Papanicolaou, A.C. Temporal course of word recognition in skilled readers: A magnetoencephalography study. *Behavioral Brain Research*, *197*, 45-54, 2009.
23. Simos PG, Kanatsouli, K., Fletcher JM, Sarkari S, Juranek, J., Cirino, P., Passaro, A., & Papanicolaou AC. Aberrant spatiotemporal activation profiles associated with math difficulties in children: A magnetic source imaging study. *Neuropsychology*, *22*, 571-584, 2008.
24. Pazo-Avarez, P., Castillo, E., Juraken, J., Passaro, A.D., & Papanicolaou, A.C. MEG correlates of bimodal encoding of faces and persons' names. *Brain Research*, *1230*, 192-201, 2008.

25. Pachou, E., Vourkas, M., Simos, P.G., Smit, D., Stam, C.J., Tsirka, V., Micheloyannis, S. Working memory in schizophrenia: An EEG study using power spectrum and coherence analysis to estimate cortical activation and network behavior. *Brain Topography*, 21, 128-137, 2008.
26. Simos PG, Fletcher JM, Sarkari S, Billingsley RL, Denton C, & Papanicolaou AC. Altering the brain circuits for reading through intervention: a magnetic source imaging study. *Neuropsychology*, 21, 485-96, 2007.
27. 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*, 40, 37-48, 2007.
28. Billingsley-Marshall, RL., Clear, T, Mencl, W. E., Simos, P.G., Swank, PR, Men, D., Sarkari, S., Castillo, E.M., & Papanicolaou, A.C. A Comparison of functional MRI and Magnetoencephalography for receptive language mapping. *Journal of Neuroscience Methods*, 161, 306-13, 2007.
29. Protopapas, A., Sideridis, G., Mouzaki, A., & Simos, P.G. Development of lexical mediation in the relationship between reading comprehension and word reading skills in Greek. *Scientific Studies of Reading*, 11, 165-197, 2007.
30. Merrifield, W.S., Simos, P.G., Papanicolaou, A.C., Philpott, L.M., & Sutherling, W.M. Hemispheric language dominance in MEG: Sensitivity, specificity and data reduction techniques. *Epilepsy and Behavior*, 10, 120-8, 2007.
31. Sideridis, G., Mouzaki, A., Simos, P.G., & Protopapas, A. Classification of students with reading comprehension difficulties: The roles of motivation, affect, and psychopathology. *Learning Disabilities Quarterly*, 29, 159-180, 2006.
32. Lee D, Simos P, Sawrie SM, Martin RC, Knowlton RC. Dynamic brain activation patterns for face recognition: a magnetoencephalography study. *Brain Topography*, 18, 19-26, 2006.
33. Amoiridis G, Tzagournissakis M, Christodoulou P, Karampekios S, Latsoudis H, Panou T, Simos P, Plaitakis A. Patients with horizontal gaze palsy and progressive scoliosis due to ROBO3 E319K mutation have both uncrossed and crossed central nervous system pathways and perform normally on neuropsychological testing. *Journal of Neurology Neurosurgery & Psychiatry*, 77, 1047-53, 2006.
34. Simos, PG, Sarkari, S, Clear, T, Billingsley-Marshall, RL, & Papanicolaou AC. Estimates of neurophysiological activity in Wernicke's area: Reproducibility of complementary measures using magnetoencephalography. *Clinical Neurophysiology*, 116, 2381-91, 2005.
35. Lee D, Sawrie SM, Simos PG, Killen J, Knowlton RC. Reliability of language mapping with magnetic source imaging in epilepsy surgery candidates. *Epilepsy & Behavior*, 8, 742-9, 2006.
36. Katsaloulis, P., Theoharis, T., Simos, P.G., Papanicolaou, A.C., Francis, D., Kakadiaris, I. Visualization and co-Registration of multiple MEG activation records over a 3D Talairach model brain. *International Journal of Computer Graphics and CAD/CAM*, 1, 1-6, 2005.

37. Papanicolaou, A.C., Castillo, E.M., Billingsley-Marshall, RL, Patariaia, E., & Simos, P.G. A Review of Clinical Applications of Magnetoencephalography. *International Review of Neurobiology*, 68, 223-47, 2005.
38. Simos, P.G. Fletcher, JM, Sarkari S, Billingsley, RL, Denton C., & Papanicolaou, A.C. Magnetic Source Imaging studies of dyslexia interventions. *Developmental Neuropsychology*, 30, 591-611, 2006.
39. Breier, J.I., Castillo, E.M., Simos, P.G., Billingsley, R.L., Patariaia, E., Sarkari, S., Wheless, J.M., & Papanicolaou AC. Atypical language representation in patients with chronic seizure disorder and achievement deficits using magnetoencephalography. *Epilepsia*, 46, 540-8, 2005.
40. Papanicolaou AC., Patariaia, E., Billingsley-Marshall, R.L., Castillo, E.M., Wheless, J.M., Swank, P.R., Breier, J.I., Sarkari, S., & Simos, P.G. (2005). Toward the substitution of invasive electroencephalography in epilepsy surgery. *Journal of Clinical Neurophysiology*, 22: 231-237.
41. Micheloyanis, I., Sakkalis, V., Vourkas, M., Stam, J.C., & Simos, P.G. Cortical networks involved in mathematical thinking: Evidence from linear and non-linear analysis of electroencephalographic activity. *Neuroscience Letters*, 373: 212-7, 2005.
42. Patariaia, E., Billingsley-Marshall, R.L., Simos, P.G., Breier, J.I., Sarkari, S., Castillo, E.M., Fitzgerald, M., Clear, T., Papanicolaou, A.C. Organization of receptive language-specific cortex before and after left temporal lobectomy. *Neurology*, 64: 481-7, 2005.
43. Simos, P.G., Fletcher, J.M., Sarkari, S., Billingsley-Marshall, R.L., Francis, D.J., Castillo, E.M., Denton, C. & Papanicolaou, A.C. Early development of neurophysiological processes involved in normal reading and reading disability. *Neuropsychology*, 19, 787-98, 2005.
44. 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.
45. Maestu F, Simos, P.G., Campo, C., Paul, N., Capilla, A., Fernandez, S., Fernández, A., Amo, C., González-Marqués, J., & Ortiz, T. Prefrontal brain magnetic activity: effects of memory task demands. *Neuropsychology*, 19, 301-8, 2005.
46. Patariaia E, Simos PG, Castillo EM, Billingsley-Marshall RL, McGregor AL, Breier JI, Sarkari S, Papanicolaou AC. Reorganization of language-specific cortex in patients with lesions or mesial temporal epilepsy. *Neurology*, 63, 1825-32, 2004.
47. Valaki CE, Maestu F, Simos PG, Zhang W, Fernandez A, Amo C, Ortiz T, Papanicolaou AC. Cortical organization for receptive language functions in Chinese: A Cross-linguistic study using MEG. *Neuropsychologia*, 42, 967-79, 2004.
48. Patariaia, E., Simos, P.G., Billingsley, R.L., Sarkari, S., Castillo, E.M., Swank, P.R., Breier, J.I., Maggio, V., Wheless, J.M., & Papanicolaou AC. Does MEG improve standard noninvasive electrophysiological methods in presurgical epilepsy evaluation? *Neurology*, 62, 943-948, 2004.

49. Papanicolaou AC, Simos PG, Castillo EM, Breier JI, Sarkari S, Pataraiia E, Billingsley RL, Wheless J, Maggio V, Maggio WW. Magnetoencephalography: A non-invasive alternative to the Wada procedure. *Journal of Neurosurgery*, 100, 867-76, 2004.
50. Wheless JW, Castillo E, Maggio V, Kim HL, Breier JI, Simos PG, & Papanicolaou AC. Magnetoencephalography (MEG) and Magnetic Source Imaging (MSI). *Neurologist*, 10, 138-53, 2004.
51. Maestú F, López-Ibor MI, Fernandez A, Simos PG, Rodriguez-Palancas A, Campo P, Amo C, Capilla A, Ortiz T. Profiles of brain magnetic activity during a memory task in Alzheimer's disease and non-demented elderly subjects, with or without depression. *Journal of Neurology, Neurosurgery, & Psychiatry*, 75, 1160-2, 2004.
52. Castillo EM, Simos, P.G., Wheless J, Baumgartner E.J., Breier, J.I., Billingsley. R.L, Sarkari, S., & Papanicolaou, A.C. Integrating sensory and motor mapping in a comprehensive MEG protocol. Clinical validity and replicability. *NeuroImage*, 21, 973-83, 2004.
53. 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, 97-107, 2004.
54. Billingsley. R.L, Simos, P.G., Castillo, E.M., Sarkari, S., & Papanicolaou, A.C. Reliability and validity of functional neuroimaging techniques for identifying language-critical areas in children and adults. *Developmental Neuropsychology*, 26, 541-63, 2004.
55. Billingsley, R.L, Simos, P.G., Castillo, E.M., Sarkari, S., Breier, J.I., Pataraiia, E., & Papanicolaou, A.C. Spatio-temporal cortical dynamics of phonological and semantic fluency. *Journal of Clinical and Experimental Neuropsychology*, 26, 1031-43, 2004.
56. Zhang, W., Simos, P.G., Ishibashi, H., Castillo, E.M., Wheless, J.W., Breier, J.I., Baumgartner, J.E., Fitzgerald, M., Papanicolaou, A.C. The neuroimaging features of epidermal nevus syndrome (A report of three cases). *American Journal of Neuroradiology*, 24, 1468-70, 2003.
57. Zhang, W., Simos, P.G., Ishibashi, H., Castillo, E.M., Wheless, J.W., Breier, J.I., Baumgartner, J.E., Fitzgerald, S., Papanicolaou, A.C. Multimodality neuroimaging evaluation improves detection of subtle cortical dysplasia in seizure patients. *Neurological Research*, 25, 53-57, 2003.
58. Valaki C, Maestu F, Simos PG, Ishibashi H, Fernández A, Amo C, Ortiz T. Do different writing systems involve distinct profiles of brain activation? A Magnetoencephalography study. *Journal of Neurolinguistics*, 16, 429-438, 2003.
59. 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, 448-59, 2003.
60. 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, 593-612, 2003.

61. Micheloyannis S, Vourkas M, Bizas, M, Simos, PG, & Stam CJ. Changes in linear and non-linear EEG measures as a function of task complexity: Evidence for local and distant signal synchronization. *Brain Topography*, 15, 239-247, 2003.

62. Maestú, F., Arrazola, J., Fernández, A., Simos, P.G., Amo, C., Gil-Gregorio, P., Fernandez, S., Rodriguez, R., Papanicolaou, P.G., & Ortiz, T. Do cognitive-patterns of brain magnetic activity correlate with cerebral atrophy in Alzheimer's disease? *Journal of Neurology, Neurosurgery, & Psychiatry*, 74, 208-212, 2003.

63. Maestu, F, Simos, PG, Fernández, A, Amo, C, Paul, N, González-Marqués, J, & Ortiz, T. Modulation of brain magnetic activity by different verbal learning strategies. *NeuroImage*, 20, 1110-1121, 2003.

64. Breier, JI, Simos, PG, Fletcher, JM, Castillo, EM, Zhang, W, & Papanicolaou, AC. Abnormal activation of temporoparietal areas in children with dyslexia during speech processing, *Neuropsychology*, 17, 610-21, 2003.

65. Billingsley RL, Simos PG, Castillo EM, Maestú, F, Sarkari, S, Breier, JI, Papanicolaou AC. Functional brain imaging of language: Criteria for scientific merit and supporting data from magnetic source imaging. *Journal of Neurolinguistics*, 16, 255-275, 2003.

66. Wheless, J.W, Simos, P.G., & Butler, I.J. Language dysfunction in epileptic conditions. *Seminars in Pediatric Neurology*, 9, 218-28, 2002.

67. Simos, P.G., Papanikolaou, E., Sakkalis, E., & Micheloyannis, S. Modulation of gamma-band spectral power by cognitive task complexity. *Brain Topography*, 14, 191-6, 2002.

68. Simos, P.G., Fletcher, J.M., Foorman, B.R., Francis, D.J., Castillo, E.M., Davis, R.N., Fitzgerald, M., Mathes, P.G., Denton, C., & Papanicolaou, A.C. Brain activation profiles during the early stages of reading acquisition. *Journal of Child Neurology*, 17, 159-63, 2002.

69. Simos, P.G., Fletcher, J.M., Bergman, E., Breier, J.I., Foorman, B.R., Castillo, E.M., Davis, R.N., Fitzgerald, M., & Papanicolaou, A.C. Dyslexia-specific brain activation profile become normal following successful remedial training. *Neurology*, 58, 1203-13, 2002.

70. Simos, P.G., Breier, J.I., Fletcher, J.M., Foorman, B.R., Castillo, E.M., & Papanicolaou, A.C. Brain mechanisms for reading words and pseudowords: An integrated approach. *Cerebral Cortex*, 12, 297-305, 2002.

71. Sarkari, S., Simos, P.G., Fletcher, J.M., Castillo, E.M., Breier, J.I., & Papanicolaou, A.C. Contributions of magnetic source imaging to the understanding of dyslexia. *Seminars in Pediatric Neurology*, 9, 227-236, 2002.

72. Papanicolaou, A.C., Simos, P.G., Castillo, E.M., Breier, J.I., & Katz, J.S., & Wright, A.A. The hippocampus and memory of verbal and pictorial material. *Learning and Memory*, 9, 99-104, 2002.

73. Micheloyannis, S., Papanicolaou, E., Bizas, E., Stam, C.J., & Simos, P.G. Ongoing electroencephalographic signal study of simple arithmetic using linear and non-linear measures. *International Journal of Psychophysiology*, *44*, 231-238, 2002.
74. Ishibashi, H., Simos, P.G., Wheless, J.W., Zhang, W., Baumgartner, J.E., Castillo, E.M., & Papanicolaou, A.C. Somatosensory evoked magnetic fields in hemimegalencephaly. *Neurological Research*, *24*, 459-462, 2002.
75. Ishibashi, H., Simos, P.G., J.M., Wheless, J.W., Baumgartner, J., Castillo, E.M., & Papanicolaou, A.C. Localization of ictal and interictal bursting epileptogenic activity in focal cortical dysplasia: Agreement of magnetoencephalography and electrocorticography. *Neurological Research*, *24*, 525-530, 2002.
76. Ishibashi, H., Simos, P.G., 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*, 239-244, 2002.
77. Ishibashi, H., Simos, P.G., J.M., 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 for localization of the primary epileptogenic region using Magnetoencephalography. *Journal of Neurosurgery*, *96*, 724-30, 2002.
78. 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.
79. 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*, 191-210, 2001.
80. 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.
81. Maestú, F., Fernández, A., Simos, P.G., Gil-Gregorio, P., Amo, C., Rodríguez, R., Arrazola, J., & Ortiz, T. Spatio-temporal patterns of brain magnetic activity during a memory task in Alzheimer's disease. *Neuroreport*, *12*, 3917-3922, 2001.
82. Castillo, E.M., Simos, P.G., Venkataraman, V., Breier, J.I., & Papanicolaou, A.C. Mapping of expressive language cortex using Magnetic Source Imaging. *Neurocase*, *7*, 419-422, 2001.
83. Castillo, E.M., Simos, P.G., Davis, R.N., Breier, J.I., Fitzgerald, M., & Papanicolaou, A.C. Levels of word processing and incidental memory: dissociable mechanisms in the temporal lobe. *Neuroreport*, *12*, 3561-3566, 2001.
84. Breier, J.I., Simos, P.G., Wheless, J.W., Constantinou, J.E.C., & Papanicolaou, A.C. Hemispheric language dominance in children determined by magnetic source imaging. *Journal of Child Neurology* *16*, 124-130, 2001.

85. Zouridakis, G., Papanicolaou, A.C., & Simos, P.G. Intraoperative neurophysiological monitoring: Part VI: Cranial surgery. *Journal of Clinical Engineering*, 25, 54-65, 2000.
86. Zouridakis, G., Papanicolaou, A.C., & Simos, P.G. Intraoperative neurophysiological monitoring: Part VII: Artifacts and troubleshooting. *Journal of Clinical Engineering*, 25, 65-72, 2000.
87. 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 non-word reading: A magnetic source imaging study. *Neuroscience Letters*, 290, 61-65, 2000.
88. 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, 2443-7, 2000.
89. Simos, P.G., Breier, J.I., Fletcher, J.M., Wheless, J.W., Maggio, W.W. Gormley, W., Constantinou, J.C., & Kramer, L. Insights into brain function and neural plasticity using Magnetic Source Imaging. *Journal of Clinical Neurophysiology*, 17, 143-162, 2000.
90. 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, 809-816, 2000.
91. 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, 503-510, 2000.
92. Zouridakis, G., Simos, P.G., Breier, J.I., & Papanicolaou, A.C. Magnetic Source Imaging: Introduction and Application Examples. *Journal of Clinical Engineering*, 24, 51-59, 1999.
93. Zouridakis, G., Papanicolaou, A.C., & Simos, P.G. Intraoperative neurophysiological monitoring: Part V: Surgery for spinal disorders. *Journal of Clinical Engineering*, 24, 372-379, 1999.
94. 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.
95. 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 revealed by MEG and intraoperative stimulation mapping. *Neuroreport*, 10, 139-142, 1999.
96. 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, 85-93, 1999.
97. Breier, J.I., Simos, P.G., Zouridakis, G., Wheless, J.W., Wilmore, L.J., Constantinou, J.C., & Papanicolaou, A.C. A MEG study of cortical plasticity. *Neurocase*, 5, 277-284, 1999.
98. 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, 89-97, 1999.

99. 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, 465-476, 1999.
100. Breier, J.I., Simos, P.G., Papanicolaou, A.C., Zouridakis, G., Wilmore, L.J., Wheless, J.W., Constantinou, J.C., & Maggio, W.W. Language dominance determined by magnetic source imaging: A comparison with the Wada Procedure. *Neurology*, 22, 938-945, 1999.
101. Bizas, E., Simos, P.G., Stam, C.J., Arvanitis, S., Terzakis, D. & Micheloyannis, S. EEG correlates of cerebral engagement in reading tasks. *Brain Topography*, 12, 99-105, 1999.
102. Zouridakis, G., Simos, P.G., Breier, J.I., & Papanicolaou, A.C. Functional hemispheric asymmetry assessment in a visual language task using MEG. *Brain Topography*, 11, 57-65, 1998.
103. 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.
104. Zouridakis, G., Papanicolaou, A.C., & Simos, P.G. Intraoperative electrophysiological monitoring. IV. Analysis of evoked activity. *Journal of Clinical Engineering*, 24, 309-319, 1998.
105. Zouridakis, G., Papanicolaou, A.C., & Simos, P.G. Intraoperative electrophysiological monitoring. III. Analysis of spontaneous activity. *Journal of Clinical Engineering*, 23, 223-231, 1998.
106. 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.
107. Simos, P.G., Breier, J.I., Zouridakis, G., & Papanicolaou, A.C. Identification of language-related brain activity using magnetoencephalography. *Journal of Clinical and Experimental Neuropsychology*, 20, 706-720, 1998.
108. 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.
109. Simos, P.G., Breier, J.I., Zouridakis, G., & Papanicolaou, A.C. MEG correlates of categorical-like temporal cue perception in humans. *Neuroreport*, 9, 2475-2479, 1998.
110. Simos, P.G., Breier, J.I., Zouridakis, G., & Papanicolaou, A.C. Magnetic fields elicited by a tone onset time continuum in humans. *Cognitive Brain Research*, 6, 285-294, 1998.
111. Breier, J.I., Simos, P.G., Zouridakis, G., J.C., & Papanicolaou, A.C. Relative timing of cortical activation during a word recognition task. *Journal of Clinical and Experimental Neuropsychology*, 20, 782-790, 1998.
112. Zouridakis, G., Papanicolaou, A.C. & Simos, P.G. Intraoperative electrophysiological monitoring. I. General overview. *Journal of Clinical Engineering*, 22, 316-319, 1997.

113. Zouridakis, G., Papanicolaou, A.C. & Simos, P.G. Intraoperative electrophysiological monitoring. II. Neurophysiological background. *Journal of Clinical Engineering*, 22, 321-327, 1997.
114. Simos, P.G., Molfese, D.L., & Brenden, R.A. Electrophysiological indices of voicing-cue discrimination in the newborn infant: laterality patterns and development. *Brain and Language*, 57, 122-150, 1997.
115. 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. *Brain Research*, 762, 29-39, 1997.
116. Simos, P.G. & Molfese, D.L. Event-related potentials in a two-choice task involving within-form comparisons of pictures and words. *International Journal of Neuroscience*, 90, 233-254, 1997.
117. Simos, P.G. & Molfese, D.L. Electrophysiological responses from a tone onset continuum in the newborn infant. *Neuropsychologia*, 35, 89-98, 1997.
118. 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.
119. Gupta, L., Molfese, D.L., Tammana, R., & Simos, P.G. Non-linear alignment and averaging for estimating the evoked response potential. *IEEE Transactions on Biomedical Engineering*, 43, 1-9, 1996.
120. 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, 31-37, 1996.

PUBLICATIONS IN NATIONAL PEER-REVIEWED JOURNALS

1. Βασιλάκη, Τ. & Σίμος, Π. (2009). Ψυχοκοινωνικές διαστάσεις της σχολικής επίδοσης. *Επιστήμες της Αγωγής*, 1, 129- 146 (Psychosocial aspects of academic achievement. *Educational Sciences [Greece]*).
2. Μουζάκη, Α., Σιδερίδης, Γ., Πρωτόπαπας, Α., & Σίμος, Π. (2007). Διερεύνηση των ψυχομετρικών χαρακτηριστικών μιας δοκιμασίας ορθογραφικής δεξιότητας μαθητών της Β', Γ', Δ', και Ε' τάξης του δημοτικού σχολείου. *Επιστήμες της Αγωγής*, 1, 129- 146. (Psychometric evaluation of a spelling assessment instrument for G2-G5 students. *Educational Sciences [Greece]*).
3. Σιδερίδης, Γ., Μουζάκη, Α., Πρωτόπαπας, Α., & Σίμος, Π. (2008). Ψυχομετρική Διερεύνηση μιας Ορθογραφικής Δοκιμασίας για Μαθητές του Δημοτικού Σχολείου. *Ψυχολογία*, 15, 290-315. (Sideridis, G., Mouzaki, A., Protopapas, A., Simos, P. Psychometric evaluation of a spelling test for elementary school students. *Psichologia [Greece]*).
4. Simos, P.G., Mouzaki, A., & Papanicolaou A.C. (2004). Reading and dyslexia: Contributions from functional brain imaging studies. *Hellenic Journal of Psychology*, 1, 56-79.

5. Valaki C., Maestu F, Simos P, Ortiz, T., & Papanicolaou A.C. (2004). Contributions of Magnetoencephalography to neurolinguistics. Evidence from cross-linguistic studies. *Hellenic Journal of Psychology*, 1: 268-281.
6. Castillo, E.M., Simos, P.G., Davis, R.N., Breier, J.I., Fitzgerald, M.E., & Papanicolaou, A.C. (2003). Temporal dynamics of medial temporal lobe activation during encoding and recognition. *Spanish Review of Neuropsychology*, 5, 99-120.
7. Simos, P.G., Papanicolaou, A.C., Breier, J.I., Fletcher, J.M., Wheless, J.W., Maggio, W.W. & Constantinou, J.C. (2001). Aproximacion a la funcion cerebral a traves de la imagen de fuente magnetica: aplicaciones clinica y experimentales (Insights into Brain Function through Magnetic Source Imaging: A Review of Research and Clinical Applications). *Revista de Neurología*, 34, 871-876.
8. Leon-Carion, J., Simos, P.G., Breier, J.I., & Zouridakis, G., Papanicolaou, A.C. (2002). Imagenes de activacion funcional cerebral a traves de medidas de fuentes magneticas: Aplicaciones de la magnetoencefalografia a la Neuropsicologia (Functional brain imaging through magnetic fields: Applications of Magnetoencephalography in neuropsychology) *Revista de Psicología General y Aplicada (Spain)*, 55, 105-112.
9. Simos, P.G. & Papanicolaou, A.C. (2000). Applications of Magnetoencephalography for imaging brain activation associated with language function. *Psychologia (Greece)*, 7, 239-256.
10. Papanicolaou, A.C., Simos, P.G., Zouridakis, G., & Katakis, M. (1999). Mapping of receptive language mechanisms using magnetoencephalography. *Egephalos (Greece)*, 36, 120-135.
11. Papanicolaou, A.C. & Simos, P.G. (1990). Evoked potential and dichotic listening correlates of right hemisphere involvement in language restitution following left hemisphere injury. *Psychological Issues (Greece)* 3, 5-25.

PSYCHOMETRIC INSTRUMENTS

Papaioannou, S., Mouzaki, A., Sideridis, G., & Simos, P. A math screening instrument for elementary school students. Proceedings of the II Special Education Conference, Athens 2010.

Simos, P. Mouzaki, A., & Sideridis, G. *Test for the Assessment of Executive Functions in the Elementary School*. Hellenic Ministry of Education-EΠΕΑΕΚ, 2007.

Simos, P. Mouzaki, A., & Sideridis, G. *Test for the Assessment of Attention and Concentration in the Elementary School*. Hellenic Ministry of Education-EΠΕΑΕΚ, 2007.

Sideridis, G., Antoniou, F., Simos, P. Mouzaki, A. Raven's Colour Progressive Matrices, Greek Standardization. Topos Publishers, in press.

BOOK CHAPTERS

1. Rezaie, R., Simos, P.G., Fletcher, J.M., Denton, C., & Papanicolaou, A.C. Exploring the neurophysiology of typical and impaired reading ability using magnetic source imaging. In Z.

Breznitz, V. Berninger, and O. Rubinsten. (Eds.), *Listening to many voices: Reading, writing, math and the brain* (Literacy Studies: Perspectives from Cognitive Neurosciences, Linguistics, Psychology, and Education Series), Springer, in press.

2. Simos, P.G., Papanicolaou, A.C., Castillo, E.M., & Buchanan, D.S. (2009). Section 3: Evoked Magnetic Fields. In A.C. Papanicolaou (Ed.), *Clinical Magnetoencephalography and Magnetic Source Imaging*. Cambridge: Cambridge University Press.

3. Simos, P.G., Fletcher, J.M., Sarkari, S., Billingsley, R.L., Denton, C., & Papanicolaou, A.C. (2006). Intensive Reading Instruction: Reading Outcomes Parallel Changes in the Intrinsic Organization of the Brain Circuit for Reading. In G. D. Sideridis & T. A. Citro (Eds.), *Best practices in learning disabilities: Bridging the gap between research and practice*. Boston, MA: LDW.

4. Simos, P.G., Castillo, E.M., & Papanicolaou, A.C. (2009). Clinical Applications of Magnetoencephalography in neurology and neurosurgery. In D. Yoshor and E. Mizrahi (Eds), *Clinical Brain Mapping*. New York: McGraw-Hill.

5. Simos, P.G., Papanicolaou, A.C., & Sarkari, S. (2008). Electromagnetic neural indices of normal and atypical spoken language processing. In M. Mody & E.R. Silliman (Eds), *Brain, behavior, and learning in Language and Reading Disorders*. Guilford Press.

6. Maestú, F., Campo, P., Fernández, A., Simos, P.G., Fernández, S., Gil-Gregorio, P., Ortiz, T. (2006). Contributions of magnetoencephalography in the early diagnosis of Alzheimer's disease. In E.M. Welsh (Ed.), *Trends in Alzheimer's Disease Research*. Nova Science Publishers, pp. 185-200.

7. Denton, C.A., Fletcher, J.M., Simos, P.G., Papanicolaou, A.C., & Anthony, J. (2007). An Implementation of a Tiered Intervention Model: Reading Outcomes and Neural Correlates. In D. Haager, S. Vaughn, & J. K. Klingner (Eds), *Validated Reading Practices for Three Tiers of Intervention*. Baltimore, Maryland: Paul H. Brookes.

8. Dash, P.K., Runyan, J.D., Blum, S., Hebert, A.E., Simos, P.G., & Papanicolaou, A.C. (2006). Putative brain mechanisms of the various memory functions. In A.C. Papanicolaou, *The Amnesias: A clinical textbook of the disorders of memory and their neurophysiological causes*. Oxford University Press.

9. Economou, A., Simos, P.G., & Papanicolaou, A.C. (2006). Age-related memory decline. In A.C. Papanicolaou, *The Amnesias: A clinical textbook of the disorders of memory and their neurophysiological causes*. Oxford University Press.

10. Simos, P.G., Billingsley-Marshall, R.L., Sarkari, S., & Papanicolaou, A.C. (2007). Single-Word Reading: Perspectives from Magnetic Source Imaging. In E. Grigorenko (Ed.), *Single word reading, Cognitive, Behavioral, and Biological Perspectives*. Lawrence Erlbaum Publisher.

11. Billingsley-Marshall, R.L., Simos, P.G., & Papanicolaou, A.C. (2006). Limbic amnesias. In A.C. Papanicolaou, *The Amnesias: A clinical textbook of the disorders of memory and their neurophysiological causes*. Oxford University Press.

12. Papanicolaou, A.C., Simos, P.G., & Sarkari, S. (2005). Brain and Language: Brain imaging of language processing: Magnetoencephalography. In Keith Brown (Ed.), *Encyclopedia of Language and Linguistics*, 2nd edition. pp. 437-444.
13. Papanicolaou, A.C. & Simos, P.G. (2006). Transient global amnesia. In A.C. Papanicolaou (Ed.), *Memory and the Amnesias*. Oxford University Press.
14. Fletcher, J.M., Simos, P.G., Papanicolaou, A.C., & Denton, D. (2004). Neuroimaging in Reading Research. In N.K. Duke & M. Mallette (Eds), *Literacy Research Methodologies*. New York: Guilford Publications, pp. 252-286.
15. Papanicolaou, A.C., Pugh, K.C., Simos, P.G., & Mencl, W.E. (2004). Functional brain imaging: An introduction to concepts and applications. In McCardle and Chhabra (Eds) *The Voice of Evidence: Bringing Research to Classroom Educators*.
16. Papanicolaou, A.C., Simos, P.G., Fletcher, J.M., Foorman, B.F., Castillo, E.M., & Sarkari, S. Early development and plasticity of neurophysiological processes involved in reading. (2003). in B. Foorman (Ed.), *Preventing and Remediating Reading Difficulties: Bringing Science to Scale*. Timonium, MD: York Press.
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. Wheless JW, Venkataraman V, Breier JI, Simos PG, Zouridakis G, Papanicolaou AC. Functional Brain Mapping with Magnetoencephalography (MEG). (2001). In Kayama T (Ed.): *Advanced Technology: Brain Tumor Surgery: Clinical application of advanced technologies*, Japanese Brain Tumor Congress, Japan, 100-115.
19. Wheless JW, Venkataraman V, Kim H, Breier JI, Simos PG, Zouridakis G, Papanicolaou AC. *Assessing Normal Brain Function with Magnetoencephalography (MEG)*, in press.
20. Fletcher, J.M., Simos, P.G., Shaywitz, B.A., Shaywitz, S.E., Pugh, K.R., & Papanicolaou, A.C. (2000). *Neuroimaging, language, and reading: The interface of brain and environment*. Washington DC: Office of Bilingual Education and Minority Languages Affairs.
21. Papanicolaou, A.C., Simos, P.G., & Basile, L.F.H. (1998). Applications of magnetoencephalography to neurolinguistic research. In B. Stemmer & H.A. Whitaker (Eds.), *The Handbook of Neurolinguistics*. Academic Press.
22. Molfese, D.L., Murray, K., Martin, T., Peters, C., Tan, A., Gill, L.A., & Simos, P.G. (1996). Coordinating a research team: maintaining and developing a good working laboratory. In F.T.L. Leong & J. Austin (Eds.), *The Psychology Research Handbook: A Primer for Graduate Students and Research Assistants*. Sage Books.
23. Molfese, D.L., Gill, L.A., Simos, P.G., & Tan, A. (1994). Implications for biological factors on development. In L. DiLalla & S.M. Clancy (Eds.), *The Assessment of Biological Mechanisms Across the Lifespan*. Hillsdale: Erlbaum.

24. Molfese, D. L., Simos, P. G., & Sarkari, S. (1995). Electrophysiological correlates of orthographic and phonological processing using the probe procedure. In G. Berninger (Ed.), *The Varieties of Orthographic Knowledge: Theoretical and Developmental Issues*. Kluwer Academic Publishers.

BOOKS

Simos, P.G. Vision in the brain: Organization and plasticity in the visual system. Lisse, The Netherlands: Swets & Zeitlinger Publishers, 2001.

Simos, P.G. & Komilis, E. Research Methods in Psychology and Cognitive Neuroscience. Athens, Greece: Papazisis, 2003.

SELECTED PROCEEDINGS IN INTERNATIONAL CONFERENCES

1. Kasselimis, D., Cheimariou, S., Potagas, C., Simos, P., Evdokimidis, I., Whitaker, H. (2011). Transcortical sensory aphasia after extensive left perisylvian lesion: A case of mixed dominance. *Procedia - Social and Behavioral Sciences*, 23, pp. 236-237.

2. Pataraiia, E., R. L. Billingsley-Marshall, E. M. Castillo, J. I. Breier, P. G. Simos, S. Sarkari, M. Fitzgerald, T. Clear, A. C. Papanicolaou. Organization of receptive language-specific cortex before and after left temporal lobectomy in *Österreichische Sektion der Internationalen Liga gegen Epilepsie*, 2006; 6 (Sonderheft 1), 2-24.

3. Papanicolaou, A.C., Simos, P.G., Castillo, E.M., Breier, J.I., Wheless, J.W., Maggio, V., Billingsley, R.L., Sarkari, S., Pataraiia, E., Clear, T., Maggio, W.W. MEG is comparable to the Wada procedure for language laterality assessment. *Epilepsia*, 44 (Suppl. 9): 251-252, 2003.

4. 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-Kleffner syndrome: the role of the non-affected hemisphere in linguistic deficit manifestation. *Epilepsia*, 44 (Suppl. 9):310, 2003.

5. Pataraiia, 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.

6. 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. *Journal of the International Neuropsychological Society*, 2002, 8, 216-217.

7. Zhang, W., Simos, P.G., Ishibashi, H., Wheless, J.W., Castillo, E.M., Breier, J.I., Baumgartner, J.E., Papanicolaou, A.C. MEG-Assisted Finding Subtle Cortical Dysplasia, *Epilepsia*, 43 (Suppl. 7):78.
8. Ishibashi, H., Simos, P.G., Wheless, J.W., Zhang, W., Kim, H.L., Baumgartner, J.E., Castillo, E.M., Maggio, W.W., Maggio, V., and Papanicolaou, A.C. Magnetoencephalographic features associated with cortical migration disorder. *Epilepsia*, 43 (Suppl. 7):76.
9. Maggio, V., Ng, Y., Simos, P.G., Papanicolaou A.C., and Wheless, J.W. Correlation of ictal magnetoencephalography with ictal electroencephalographic recordings. *Epilepsia*, 43 (Suppl. 7):315.
10. Castillo, E.M., 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*, 2002, 8, 163.
11. Castillo, E.M., Davis, R., Simos, P., Breier, J., Fitzgerald, M., Ishibashi, H., Zhang, W., & Papanicolaou, A. Two brain mechanisms mediation different levels of word processing and memory performance. *Journal of the International Neuropsychological Society*, 2002, 8, 227.
12. Papanicolaou, A. C., Simos, P.G., Breier, J. I., Castillo, E. M., Davis, R. N., Wheless, J. W., Venkataraman, V., Kim, H. L., & Maggio, W. W. MEG: A method comparable to the Wada procedure for language laterality assessment. *Epilepsia*, 42, 2001 (Suppl 7): 75.
13. Wheless JW, Breier JI., Simos PG, Constantinou JE, Baumgartner JE, Venkataraman V, Papanicolaou AC. Language Dominance in Children as Determined by Magnetic Source Imaging and the Intracarotid Amobarbital Procedure: A Comparison. *Epilepsia*, 2000; 41 (Suppl. 7): 81.
14. Breier JI, Simos PG, Wheless JW, Constantinou JEC, Baumgartner JE, Venkataraman V, Papanicolaou AC. Language Dominance in Children as Determined by Magnetic Source Imaging and the Intracarotid Amobarbital Procedure: A Comparison. *Annals of Neurology*, 2000; 48: 515-516.
15. Maggio WW, Simos PG, Breier JL, Zouridakis G, Gormley WB, Constantinou JEC, Wheless JW, Papanicolaou AC. Speech Mapping with Magnetic Source Imaging: Comparison with Intraoperative Speech Mapping. *Epilepsia*, 1999, 40 (Suppl.2):50.
16. Papanicolaou AC, Simos P, Zouridakis G, Breier JI, Gormley WB, Constantinou JE, Wheless JW, Maggio WW. Mapping the Language Cortex with MSI. *Epilepsia*, 1999, 40 (Suppl.2): 50-51.
17. Maggio WM, Simos PG, Breier JI, Zouridakis G, Gormley WB, Constantinou JEC, Wheless JW, Papanicolaou AC. Magnetic Source Imaging Speech Mapping: Comparison with Intraoperative Speech Mapping; *Epilepsia*, 1999, 40 (Suppl.7): 181.
18. Ishibashi, H., Simos, P.G., Martinez 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*, in press.

19. Simos, P.G., Fletcher, J.M., Castillo, E.M., Foorman, B.R., Davis, R.N., & Papanicolaou, A.C. Aberrant brain activation profiles in kindergarten children at risk for dyslexia. *Society for Neuroscience Abstracts*, in press.
20. 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.
21. 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.
22. 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*, in press.
23. 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.*
24. 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, S2170: 1999.
25. 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.
26. 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, S1635: 1999.
27. Papanicolaou, A.C., Simos, P.G., Breier, J.I., Zouridakis, G., Constantinou, J.C. Wheless, J.W., Maggio, W.W. Applications of MEG to the mapping of the language-specific cortex. *Epilepsia*, 40, 178: 1999.
28. Molfese, D.L., Simos, P.G., Narter, D.B., Modglin, A.A., Ellefson, M.R., VanMatre, A.J., Chambers, E.A. Longitudinal changes in event-related potentials to speech and non-speech stimuli from three to eight years of age. *Abstracts of the Society for Research in Child Development Meeting*, in press.
29. 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. *Clinics of Nuclear Medicine*, 24, 214: 1999.
30. 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, 107-108: 1999.

31. Breier, J.I., Simos, P.G., Zouridakis, G., & Papanicolaou, A.C. Reliability of MEG for the lateralization of receptive language areas. *Epilepsia*, 39, 143: 1999.
32. 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, S153: 1999.
33. Papanicolaou, A.C., Simos, P.G., Breier, J.I., & Zouridakis, G. Language mapping with magnetoencephalography. *Journal of the International Neuropsychological Society*, 4, S211: 1998.
34. Simos, P. G., Molfese, D. L., & Brenden, R. A. Innate Bases for the Perception of Voicing Contrasts: Electrophysiological Correlates. *Journal of the International Neuropsychological Society*, 4, S339: 1995.
35. Papanicolaou, A.C., Simos, P.G., Breier, J.I., & Zouridakis, G. Language mapping with magnetoencephalography (MEG). *Neuroimage*, 7, S178: 1998.
36. Sarkari, S., Molfese, D.L., & Simos, P.G. Electrophysiological correlates of orthographic and phonological processing using the probe procedure. *Journal of the International Neuropsychological Society*, 1, 179-180: 1995.
37. Molfese, D.L., Gill, L.A., & Simos, P.G. Predicting language performance at 5 years from evoked potentials recorded at birth. *Abstracts of the Society for Research in Child Development Meeting*, 10, S169: 1995.
38. Simos, P.G., Peters, C.J., & Molfese, D.L. Discrimination of speech and nonspeech sounds by neonates. *Abstracts of the Society for Research in Child Development Meeting*, 10, S689: 1995.
39. Simos, P.G., Sarkari, S., Castillo, E.M., Fletcher, J., Papanicolaou, A.C. Insights into the brain mechanism for reading using MSI and electrocortical stimulation mapping. In H. Nowak, J. Haueisen, F. Giebler, & R. Huonker (Eds.), *Proceedings of the 13th International Conference on Biomagnetism*, Berlin: VDE Verlag, pp. 456.
40. Simos, P.G., Sarkari, S., Castillo, E.M., Fletcher, J., Papanicolaou, A.C. Distinct spatiotemporal activation profiles in dyslexic children. In H. Nowak, J. Haueisen, F. Giebler, & R. Huonker (Eds.), *Proceedings of the 13th International Conference on Biomagnetism*, Berlin: VDE Verlag, pp. 367-369.
41. Molfese, D.L., Simos, P.G., Castillo, E.M., Papanicolaou, A.C. Reliability and concurrent validity of alternative source modeling methods: Comparison with invasive brain mapping techniques. In H. Nowak, J. Haueisen, F. Giebler, & R. Huonker (Eds.), *Proceedings of the 13th International Conference on Biomagnetism*, Berlin: VDE Verlag, pp. 771-772.
42. Sarkari, S., Simos, P.G., Castillo, E.M., Breier, J.I., Papanicolaou, A.C. Presurgical determination of language dominance with Magnetic Source Imaging: agreement with the Wada procedure. In H. Nowak, J. Haueisen, F. Giebler, & R. Huonker (Eds.), *Proceedings of the 13th International Conference on Biomagnetism*, Berlin: VDE Verlag, pp. 150-151.

43. Castillo, E.M., Gamelin, J., Zhang, W., Simos, P.G., Papanicolaou, A.C. Automated analysis of MEG recordings for hemispheric dominance determinations in a clinical population: a comparison with the "standard" analysis procedure and with the Wada test. In H. Nowak, J. Haueisen, F. Giebler, & R. Huonker (Eds.), *Proceedings of the 13th International Conference on Biomagnetism*, Berlin: VDE Verlag, p. 188.
44. Castillo, E.M., Simos, P.G., Breier, J.I., Fitzgerald, M.E., Sarkari, S., Papanicolaou, A.C. Insights into memory function using Magnetic Source Imaging. In H. Nowak, J. Haueisen, F. Giebler, & R. Huonker (Eds.), *Proceedings of the 13th International Conference on Biomagnetism*, Berlin: VDE Verlag, p. 300.
45. Papanicolaou, A.C., Simos, P.G., Breier, J.I., & Zouridakis, G. Mapping the language cortex. *Biomag '98: Proceedings of the Eleventh International Conference on Biomagnetism*. Springer Verlag.
46. Zouridakis, G., Simos, P.G., Breier, J.I., & Papanicolaou, A.C. Cerebral dominance assessment using magnetoencephalography. *Biomag '98: Proceedings of the Eleventh International Conference on Biomagnetism*. Springer Verlag.
47. 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. *Biomag '96: Proceedings of the Tenth International Conference on Biomagnetism*. Springer Verlag: 2000.
48. Simos, P.G., Breier, J.I., Zouridakis, G., & Papanicolaou, A.C. Identification of language-related brain activity using magnetoencephalography. *Biomag '98: Proceedings of the Eleventh International Conference on Biomagnetism*. Springer Verlag.
49. Basile, L.F.H.; Simos, P.G.; Tarkka, I.M., & Papanicolaou, A.C. Task-specific magnetic fields from the left human prefrontal cortex. *Biomag '96: Proceedings of the Tenth International Conference on Biomagnetism*. Springer Verlag: 1996.

Selected Presentations in International Conferences

1. Rezaie, R., Papanicolaou, A.C., Simos, P.G. (2010). Brain Activation Profiles of Middle School Students as a Function of Response to Intervention. The 2010 International Neuropsychological Society Mid-Year Meeting. International Neuropsychological Society, Krakow, Poland.
2. Protopapas, A., Fakou, K., Drakopoulou, S., Skaloumbakas, C., & Mouzaki, A. (2010). Spelling errors of Greek dyslexic and nondyslexic children in Grades 3-4 and 7-8. 17th Annual Meeting of the Society for the Scientific Study of Reading. Berlin, 7-10 July.
3. Rezaie, R., Simos, P., Fletcher, J., Cirino, P., Li, Z., Passaro, A., Papanicolaou, A.C. (2009). Spatiotemporal Activation Profiles of Word Recognition in Children With Reading Disabilities:

A Distributed Source Modeling Approach. 2nd Biannual of the International Society for the Advancement of Clinical Magnetoencephalography ISACM), Athens, Greece.

4. Sideridis, G., Simos, A., Mouzaki, A. & Protopapas, A. (2009). Growth in reading comprehension by students with low vs high vocabulary ability: Is there evidence of Matthew effects? Παρουσίαση στο 18th Annual World Congress on Learning Disabilities: Increasing Global Awareness & Understanding of Learning Disabilities through Instruction & Best Practices. Burlington, MA: October 28-30.
5. Protopapas, A. Simos, A., Sideridis, G. & Mouzaki, A. (2009). Vocabulary measures in concurrent and longitudinal prediction of reading comprehension. Συμμετοχή στο συμπόσιο "Vocabulary and reading comprehension". Annual Meeting Society for the Scientific Studies of Reading. Boston, MA: June 26.
6. Δ. Σκοτεινού, Π. Σίμος, & Α. Πρωτόπαπας (2008). Διατομικές διαφορές στην παρεμβολή Stroop σε σχέση με την αναγνωστική ικανότητα. 2ο Πανελλήνιο Συνέδριο Γνωστικής Ψυχολογίας. Θεσσαλονίκη, 6–9 Νοεμβρίου.
7. Γ. Σιδερίδης, Π. Σίμος, Α. Μουζάκη, & Α. Πρωτόπαπας (2008). Εξέλιξη της αναγνωστικής κατανόησης από αλλοδαπούς μαθητές/-τριες με χαμηλή ικανότητα λεξιλογίου: Παρουσία του «φαινομένου Ματθαίου». 1ο Πανελλήνιο Συνέδριο Εξελικτικής Ψυχολογίας, Πανεπιστήμιο Αθηνών, 29 Μαΐου–1 Ιουνίου.
8. Simos, P., Sideridis, G., Protopapas, A., & Mouzaki, A. (2008). Growth in reading fluency and comprehension for students with and without reading difficulties: An application of multi-level random coefficient modeling. American Educational Research Association 2008 Annual Meeting : "Research on Schools, Neighborhoods, and Communities: Toward Civic Responsibility". New York, NY: March 23-28.
9. Sideridis, G., Simos, P., & Mouzaki, A. (2007). Motivational and emotional correlates of achievement for students with and without reading problems: A longitudinal study. 16th Annual World Congress on Learning Disabilities: Ensuring Quality Education: Research, Practice, Advocacy. Marlborough, MA: November 1-3.
10. Mouzaki, G. Sideridis, P. Simos, & A. Protopapas (2007). The importance of vocabulary in longitudinal prediction of reading comprehension by word-level skills. 14th Annual Meeting of the Society for the Scientific Study of Reading. Πράγα, Τσεχία, 12–14 Ιουλίου.
11. Mouzaki, G. Sideridis, A. Protopapas, & P. Simos (2006). Growth in reading comprehension over time for students with and without deficits in basic reading skills: An application of latent variable growth modeling. 15th Annual World Congress on Learning Disabilities. Burlington, MA, 26–28 Οκτωβρίου.
12. S. Sarkari, A.C. Papanicolaou, J.M. Fletcher, P.G. Simos. (2006). Neurophysiological Correlates of Developmental Math Disability. 15th Annual World Congress on Learning Disabilities. Burlington, MA, 26–28 Οκτωβρίου.
13. Bali, P., Charitopoulou, S., Mouzaki, A., Protopapas, A., & Sideridis, G. (2006). Vocabulary knowledge and learning difficulties: A study among reading-disabled students,

second-language learners and typical readers in Greek schools. 15th Annual World Congress on Learning Disabilities: Validated Practices: Literacy, Math and Social Behaviour. Boston, MA: October 26-29.

14. Mouzaki, A., Spantidakis, I., & Charitopoulou, S. (2005). The role of oral language development in reading comprehension of good and poor readers: evidence from Greek elementary school students. 14th Annual World Congress on Learning Disabilities: A Multidisciplinary Approach to Learning Disabilities: Integrating Education, Motivation and Emotions. Boston, MA: October 28-29.

15. Protopapas, A. Mouzaki, P. Simos, A. Nikologianni, E. Spanou, & A. Xanthi (2005). Development of text comprehension in elementary grades: Component processes. 27th International School Psychology Association Colloquium. Αθήνα, 13–17 Ιουλίου.

16. Α. Πρωτόπαπας, Π. Σίμος, Α. Μουζάκη, Γ. Σιδερίδης, & Χ. Σκαλούμπακας (2005). Αναγνωστικές δεξιότητες και κατανόηση κειμένου. 10ο Πανελλήνιο Συνέδριο Ψυχολογικής Έρευνας, Ιωάννινα, 1–4 Δεκεμβρίου.

17. Simos, P.G., Sarkari, S., Castillo, E.M., Fletcher, J., Papanicolaou, A.C. *Insights into the brain mechanism for reading using MSI and electrocortical stimulation mapping*. 13th International Conference on Biomagnetism, Biomag2002, August 10-14.

18. Simos, P.G., Sarkari, S., Castillo, E.M., Fletcher, J., Papanicolaou, A.C. *Distinct spatiotemporal activation profiles in dyslexic children*. 13th International Conference on Biomagnetism, Biomag2002.

19. Sarkari, S., Simos, P.G., Castillo, E.M., Breier, J.I., Papanicolaou, A.C. *Presurgical determination of language dominance with Magnetic Source Imaging: agreement with the Wada procedure*. 13th International Conference on Biomagnetism, Biomag2002.

20. Molfese, D.L., Simos, P.G., Castillo, E.M., Papanicolaou, A.C. *Reliability and concurrent validity of alternative source modeling methods: Comparison with invasive brain mapping techniques*. 13th International Conference on Biomagnetism, Biomag2002.

21. Castillo, E.M., Simos, P.G., Breier, J.I., Fitzgerald, M.E., Sarkari, S., Papanicolaou, A.C. *Insights into memory function using Magnetic Source Imaging*. 13th International Conference on Biomagnetism, Biomag2002.

22. Castillo, E.M., Gamelin, J., Zhang, W., Simos, P.G., Papanicolaou, A.C. *Automated analysis of MEG recordings for hemispheric dominance determinations in a clinical population: a comparison with the "standard" analysis procedure and with the Wada test*. 13th International Conference on Biomagnetism, Biomag2002.

23. Zhang W., Simos, P.G., Ishibashi, H., Castillo E.M., Breier J, Baumgartner, J.E, Wheless, J.W., Papanicolaou A.C. *Neuroimaging Features of Epidermal Nevus Syndrome*, 40th Annual Meeting of the American Society of Neuroradiology, Vancouver, Canada, May 13-17, 2002.

24. 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 2002.
25. 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. Paper to be presented at the International Neuropsychological Society 35th Annual Meeting, Toronto, ON, Canada, February 2002.
26. 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 2002.
27. Papanicolaou, A. C., Simos, P.G., Breier, J. I., Castillo, E. M., Davis, R. N., Wheless, J. W., Venkataraman, V., Kim, H. L., & Maggio, W. W. MEG: A method comparable to the Wada procedure for language laterality assessment. Annual Meeting of the American Epilepsy Society and the American Clinical Neurophysiology Society, Philadelphia, PA, November 2001.
28. Ishibashi, H., Simos, P.G., Martinez 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, November 2001.
29. Simos, P.G., Fletcher, J.M., Foorman, B.R., Francis, D.J., Castillo, E.M., Davis, R.N., Fitzgerald, M., Mathes, P.G., Denton, C., & Papanicolaou, A.C. Aberrant brain activation profiles in kindergarden children at risk for dyslexia. Society for Neuroscience 31th Annual Meeting, November 2001.
30. 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.
31. 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.
32. 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. First International Congress on Neuropsychology in the Internet, 1999.

33. 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.
34. Wheless JW, Breier JI., Simos PG, Constantinou JE, Baumgartner JE, Venkataraman V, Papanicolaou AC. 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..
35. Breier JI, Simos PG, Wheless JW, Constantinou JEC, Baumgartner JE, Venkataraman V, Papanicolaou AC. 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, October 27, 2000, St. Louis, MO..
36. 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.* 29th Annual Meeting of the International Neuropsychological Society, July 2000.
37. 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. 29th Annual Meeting of the International Neuropsychological Society, July 2000.
38. 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, February 2000.
39. Papanicolaou AC, Simos PG, Breier JI, Zouridakis G, Constantinou JEC, Wheless JW, Maggio WM. Applications of MEG to the Mapping of the Language-Specific Cortex. Presented at the 53rd Annual Meeting of the American Epilepsy Society, December 8, 1999, Orlando, Fl.
40. Maggio WM, Simos PG, Breier JI, Zouridakis G, Gormley WB, Constantinou JEC, Wheless JW, Papanicolaou AC. Magnetic Source Imaging Speech Mapping: Comparison with Intraoperative Speech Mapping. Presented at the 53rd Annual Meeting of the American Epilepsy Society, December 8, 1999, Orlando, Fl.
41. 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, October 1999.
42. Papanicolaou, A.C., Simos, P.G., Zouridakis, G., Breier, J.I., Gormley, W.B., Constantinou, J.E., Wheless, J.W., & Maggio, W.W. *Mapping the receptive language cortex.* 1999 Annual Meeting, Society of Neuroscience; Miami Beach, Florida; October 23-28, 1999.
43. Maggio WW, Simos PG, Breier JL, Zouridakis G, Gormley WB, Constantinou JEC, Wheless JW, Papanicolaou AC. Speech Mapping with Magnetic Source Imaging: Comparison with

Intraoperative Speech Mapping. Presented at the 23rd International Epilepsy Congress, Prague, Czech Republic, September 1999.

44. Zouridakis G., Papanicolaou A.C., Simos P.G., Kataki M. The mapping of the receptive language-specific cortex using MEG. Second Conference on Biomedical Engineering in Greece, Chania, Greece, 1999.

45. 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.

46. Papanicolaou, A.C., Zouridakis, G., Simos, P., Breier, J.I., Maggio, W.W., Gormley, W.B., Constantinou, J.E.C., Wheless, J.W., Willmore, L.J., Kramer, L. *A comparison of MSI and invasive brain mapping procedures: Normative and Clinical Studies of Language*. 5th International Conference on Functional Mapping of the Human Brain. Dusseldorf, Germany; June 22-26, 1999.

47. Molfese, D.L., Simos, P.G., Narter, D.B., Modglin, A.A., Ellefson, M.R., VanMatre, A.J., & Chambers, E.A. *Longitudinal changes in event-related potentials to speech and non-speech stimuli from three to eight years of age*. Society for Research in Child Development Meeting, April, 1999.

48. Simos, P.G., Breier, J.I., Zouridakis, G., & Papanicolaou, A.C. *MEG correlates of categorical perception of temporal cues for voicing in humans*. 27th Annual Meeting of the International Neuropsychological Society, February 1999.

49. 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, August 28-September 2, 1998.

50. 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 Mapping: Comparison with Intraoperative Speech Mapping*. 1999 Meeting of the Rocky Mountain Association.

51. 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.

52. 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*. 27th Annual Meeting of the International Neuropsychological Society, February 1999.

53. Breier, J.I., Simos, P.G., Zouridakis, G., & Papanicolaou, A.C. *Reliability of MEG lateralization of receptive language areas*. 52th Annual Meeting of the American Epilepsy Society, December 1998.

54. Papanicolaou, A.C., Breier, J.I., Gormley, W., Simos, P.G., Wheless, J.W., Constantinou, J.C., & Wilmore, L.J. *Comparison of language mapping using extra- and intraoperative electrocortical stimulation and magnetoencephalography*. 52th Annual Meeting of the American Epilepsy Society, December 1998.
55. Breier, J.I., Simos, P.G., Zouridakis, G., & Papanicolaou, A.C. *Reliability of MEG lateralization of receptive language areas*. 52th Annual Meeting of the American Epilepsy Society, December 1998.
56. Papanicolaou, A.C., Simos, P.G., Breier, J.I., & Zouridakis, G. *Language mapping with magnetoencephalography*. Twenty-First Annual International Neuropsychological Society Meeting, July 1998.
57. Zouridakis, G., Simos, P.G., Breier, J.I., & Papanicolaou, A.C. *Cerebral dominance assessment using magnetoencephalography*. 11th International Conference on Biomagnetism, Biomag98, August 28-September 2, 1998.
58. 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 28-September 2, 1998.
59. Papanicolaou, A.C., Simos, P.G., Breier, J.I., & Zouridakis, G. *Language mapping with magnetoencephalography*. Fourth International Conference on Functional Mapping of the Human Brain, June 1998.
60. Zouridakis, G., Simos, P.G., & Papanicolaou, A.C. *Assessment of functional hemispheric asymmetries in a visual language task using MEG*. Sixteenth Annual Houston Conference on Biomedical Engineering Research, April 1998.
61. Zouridakis, G., Simos, P.G., & Papanicolaou, A.C. *Functional organization of the auditory cortex: Evidence from whole-head MEG*. Fifteenth Annual Houston Conference on Biomedical Engineering Research, February 1997.
62. Zouridakis, G., Simos, P.G., & Papanicolaou, A.C. *Intraoperative electrophysiological monitoring*. Fifteenth Annual Houston Conference on Biomedical Engineering Research, February 1997.
63. Simos, P.G., Basile, L.F.H., & Papanicolaou, A.C. *Source localization of N400-like negativities in a sentence-reading paradigm using evoked magnetic fields and magnetic resonance imaging*. Tenth International Conference on Biomagnetism: Biomag '96, March 1996.
64. Basile, L.F.H., Simos, P. G., Tarkka, I.M., & Papanicolaou, A.C. *Task-specific magnetic fields from the left human prefrontal cortex*. Tenth International Conference on Biomagnetism: Biomag '96, March 1996.
65. Sarkari, S., Molfese, D.L., & Simos, P.G. *Electrophysiological correlates of orthographic and phonological processing using the probe procedure*. International Neuropsychological Society Meeting, February, 1995.

66. Molfese, D.L., Gill, L.A., & Simos, P.G. *Predicting language performance at 5 years from evoked potentials recorded at birth*. Society for Research in Child Development Meeting, March, 1995.
67. Simos, P.G., Peters, C.J., & Molfese, D.L. *Consonant cue discrimination of speech and nonspeech sounds in newborn infants: Electrophysiological correlates*. Midwestern Psychological Association meeting, May, 1995.
68. Simos, P.G., Molfese, D.L., & Brenden, R.A. *Innate bases for the perception of voicing contrasts: electrophysiological correlates*. International Neuropsychological Society Meeting, February, 1994.
69. Simos, P.G., Molfese, D.L., & Brenden, R.A. *Consonant place discrimination in newborn infants*. Midwestern Psychological Association Meeting, May, 1994.
70. Simos, P.G., Peters, C.J., & Molfese, D.L. *Discrimination of speech and nonspeech sounds by neonates*. Society for Research in Child Development Meeting, May, 1994.
71. Brenden, R. A., Simos, P. G., & Molfese, D. L. *Electrophysiological evidence of innate basis for temporal perception*. Undergraduate Conference, Rockford College, October, 1993.
72. Simos, P.G., Murray, K.L., & Molfese, D.L. *Consonant cue discrimination of speech and nonspeech sounds in 5-year-old children*. SIUC Life Span Development Conference, March, 1993.
73. Simos, P.G., Murray, K.L., & Molfese, D.L. *Bilateral and right hemisphere discrimination of consonant sounds in 5-year-old children*. Midwestern Psychological Association Meeting, April, 1993.
74. Simos, P.G., Clark, B.C, & Molfese, D.L. *Perceptual invariance for consonant and vowel information in newborn infants*. Midwestern Psychological Association Meeting, April, 1992.