

PERSONAL DETAILS

Surname: Zygouris

Name: Nikolaos

Father's Name: Christos

Place of Birth: Athens

Date of Birth: July 26th, 1980

E-Mail: nzygouris@uth.gr

Position (Title): Assistant Professor in Neuropsychological Assessment of Children and Adolescents with Digital Technologies.

Director of the Laboratory “Digital Neuropsychological Assessment”

EDUCATIONAL QUALIFICATIONS

2005-2010 PhD from the Department of Special Education, School of Humanities, University of Thessaly. Thesis "The use of Event Related Potentials in evaluating the rehabilitation of children and adolescents with anxiety and depression," with honors (10).

1999 – 2004 Graduation from the Department of Psychology, Faculty of Social Sciences, University of Crete.

2014 rTMS Training Completion, Temerty Center for Therapeutic Brain Intervention at the Centre for Addiction and Mental Health, Toronto, Canada.

2010 Transcranial Magnetic Stimulation, Brainclinics Diagnostics, Nijmegen, the Netherlands.

2008 “Event Related Potentials (ERPs) system and related clinical applications” EBNeuro, Neurodiagnostic Specialist, Firenze, Italy

SELECTED PUBLICATIONS

ARTICLES IN INTERNATIONAL AND GREEK JOURNALS

1. Zygouris, N. C., Avramidis, E., Karapetsas, A. V., & Stamoulis, G. I. (2018). Differences in dyslexic students before and after a remediation program: a clinical neuropsychological and event related potential study. *Applied Neuropsychology: Child*, 7(3), 235-244.

2. Fatourou, E., Zygouris, N. C., Loukopoulos, T., & Stamoulis, G. I. (2018). Teaching Concurrent Programming Concepts Using Scratch in Primary School: Methodology and Evaluation. *International Journal of Engineering Pedagogy (iJEP)*, 8(4), 89-105.
3. Zygouris, N. C., Vlachos, F., Dadaliaris, A. N., Oikonomou, P., Stamoulis, G. I., Vavougiou, D., et al. (2017). A Neuropsychological Approach of Developmental Dyscalculia and a Screening Test via a Web Application. *International Journal of Engineering Pedagogy (iJEP)*, 7(4), 51-65.
4. Aggelis, D. E., St Avgoloupis, D., & Zygouris, N. C. (2016). University Students' Perceptions of the Environmental Issue and its Solution. *Asian Journal of Education and e-Learning (ISSN: 2321-2454)*, 4(04).
5. Zygouris, N.C & Karapetsas, A.V. (2015) Loneliness. Current scientific data, *Encephalos*, 52, 1-3.
6. Karapetsas, A.V., Karapetsas, V.A., Zygouris, N.C. & Fotis, A., I. (2015). Internet addiction and loneliness, *Encephalos*, 52, 4 – 9.
7. Zygouris, N.C., Dermitzaki, I. & Karapetsas, A.V. (2015). Differences in brain activity of children with higher mental abilities. An Event Related Potentials study using the latency of P300 and N100 waveforms, *International Journal of Developmental Neuroscience*, 47, 118 – 119.
8. Karapetsas, A.V., Laskarakis, E.R.M. & Zygouris, N.C. (2014). Assessment of musical audibility in children with learning disabilities, *Journal of Music education*, 12, 56- 72.
9. Karapetsas, A.V., Karapetsas, V.A., Zygouris, N.C. & Fotis, A.I. (2014) Internet Gaming Addiction. Reasons, Diagnosis, Prevention and Treatment. *Encephalos*, 51, 10 – 14.
10. Karapetsas, AB, Fotis, A. & Zygouris, NC, (2012). Youths and internet addiction: Research frequency approach to the phenomenon. *Encephalos*, 49, 2, 67-72.
11. Zygouris, N. 2011. Event Related Potentials in depressed children and adolescents. Prolonged P300 latency and abnormal brain asymmetry. *Neuroscience Letters*, 500, 20 – 21.

12. Karapetsas, AB & Zygouris, NC, (2011). The Use of Event Related Potentials prognosis, diagnosis and rehabilitation of children with dyslexia. *Encephalos*, 43.3, 118-127.
13. Karapetsas, AB, Laskaraki, E. & Zygouris, NC (2011). The effect of music education in the memory function of school age children. *Tribune of Social Sciences*, IL (60), 79-98.
14. Karapetsas, A.V. & Zygouris, N.C. (2008). Charting the maturation of the prefrontal lobes at school aged children and adolescents, using Event Related Potentials. *Annals of General Psychiatry*, 7,1, 355
15. Karapetsas AB & Zygouris, NC, (2007). The effects of nicotine on performance of memory and electrophysiological configuration of P300 waveform. *Psychology (special issue devoted to neuropsychology)*, 14 (2) 127-142.
16. Karapetsas AB & Zygouris, NC, (2006). The use of Event Related Potentials in the evaluation of children and adolescents with depression. *Encephalos*, 43.3 113-121.

SELECTED ARTICLES IN INTERNATIONAL PROCEEDINGS

1. Zygouris, N. C., Mpotsoglou K., Dadaliaris, Dimitriou, G., Tsontsios D, Vavougiou D.& Stamoulis, G.I. **Screening executive functions of preschool children via a web application**, In *International Conference on Interactive Collaborative Learning*. Springer, Cham, accepted
2. Striftou A., Zygouris, N.C. & Stamoulis, G.I **Web delivered reading improvement battery of tasks**, In *International Conference on Interactive Collaborative Learning*. Springer, Cham, accepted
3. Fatourou E., Zygouris N.C., Loukopoulos A., Stamoulis G.I., Vavougiou D. (2020) More Than Structured Programming in Primary School Syllabus. In: Auer M., Hortsch H., Sethakul P. (eds) *The Impact of the 4th Industrial Revolution on Engineering Education. Advances in Intelligent Systems and Computing*, vol 1135. Springer, Cham
4. Zygouris, N. C., Vlachos, F., Dadaliaris, A. N., Karagos, E., Oikonomou, P., Striftou, A.& Stamoulis, G. I. (2018, September). New Tasks for a Dyslexia Screening Web Application. In *International Conference on Interactive Collaborative Learning* (pp. 263-271). Springer, Cham.

5. Yfanti, T., Zygouris, N. C., Chondropoulos, I., & Stamoulis, G. I. (2018, September). Internet Addiction and Anxiety among Greek Adolescents: An Online Survey. In *International Conference on Interactive Collaborative Learning* (pp. 813-823). Springer, Cham.
6. Soula, M., Zygouris, N. C., & Stamoulis, G. I. (2018, September). Depressive Symptomatology of University Students via a Web Application. In *International Conference on Interactive Collaborative Learning* (pp. 514-519). Springer, Cham.
7. Papadopoulos, P. K., Zygouris, N. C., Koziri, M. G., Loukopoulos, T. & Stamoulis, G. I. (2017, November). Mobivoke: A Mobile System Architecture to Support off School Collaborative Learning Process. In *Interactive Mobile Communication, Technologies and Learning* (pp. 587-592). Springer, Cham.
8. Fatourou, E., Zygouris, N.C., Loukopoulos, T., & Stamoulis, G. I. (2017, September). Evaluation of Early Introduction to Concurrent Computing Concepts in Primary School. In *International Conference on Interactive Collaborative Learning* (pp. 543-552). Springer, Cham.
9. Zygouris, N. C., Stamoulis, G. I., Vlachos, F., Vavougiou, D., Dadaliaris, A. N., et al., (2017, April). Screening for Disorders of Mathematics via a web application. In *Global Engineering Education Conference (EDUCON), 2017 IEEE* (pp. 502-507). IEEE.
10. Zygouris, N. C., Striftou, A., Dadaliaris, A. N., Stamoulis, G. I., Xenakis, A. C., & Vavougiou, D. (2017, April). The use of Lego mindstorms in elementary schools. In *Global Engineering Education Conference (EDUCON), 2017 IEEE* (pp. 514-516). IEEE.
11. Zygouris, N. C., Vlachos, F., Dadaliaris, A. N., Oikonomou, P., Stamoulis, G. I., Vavougiou, D. & Striftou, A. (2016, September). The implementation of a web application for screening children with dyslexia. In *International Conference on Interactive Collaborative Learning* (pp. 415-423). Springer, Cham.
12. Zygouris, N. C., Vlachos, F., Dadaliaris, A. N., Stamoulis, G. I., Vavougiou, D., Nerantzaki, E., & Striftou, A. (2015, September). Learning difficulties screening web application. In *Interactive Collaborative Learning (ICL), 2015 International Conference on* (pp. 650-654). IEEE.

BOOK

Rigas A.V. & Zygouris, N.C. (2017) **Social and Clinical Neuropsychological Interventions for people with Special Needs**, Gutenberg, Athens

CHAPTERS IN BOOKS

1. Zygouris, N.,C. (2017) Dysgraphia: In Rigas, A.V. & Zygouris N.C. (eds). **Social and Clinical Neuropsychological Interventions for people with Special Needs**, Gutenberg, Athens, pp. 74-82.
2. Zygouris N.C., Dermitzakis, I., et al., (2017) Gifted Children: Neuropsychological assessment in Greek Students, In Rigas, A.V. & Zygouris N.C. (eds). **Social and Clinical Neuropsychological Interventions For people with Special Needs**, Gutenberg, Athens, pp. 159 – 176
3. Panagiotakopoulou I.A. & Zygouris N.C. (2017) Educational and Neuropsychological Interventions in Speech Disorders In Rigas, A.V. & Zygouris N.C. (eds). **Social and Clinical Neuropsychological Interventions For people with Special Needs**, Gutenberg, Athens, pp. 177 – 193.
4. Zygouris N.C. (2017) Use of Computer in dyslexia screening. In Rigas, A.V. & Zygouris N.C. (eds). **Social and Clinical Neuropsychological Interventions For people with Special Needs**, Gutenberg, Athens, pp. 217 – 232.
5. Zygouris, N.C. (2017) Neuropsychological rehabilitation. In Rigas, A.V. & Zygouris N.C. (eds). **Social and Clinical Neuropsychological Interventions For people with Special Needs**, Gutenberg, Athens, pp. 260 – 280
6. Zygouris et al., (2017) Neuropsychological techniques of assessment and rehabilitation of children with anxiety. σε παιδιά με Αγχώδεις Διαταραχές. In Rigas, A.V. & Zygouris N.C. (eds). **Social and Clinical Neuropsychological Interventions For people with Special Needs**, Gutenberg, Athens, pp. 260 – 280.
7. Karapetsas AB & Zygouris, NC, Language disorders rehabilitation, **in Contemporary Issues in Neurolinguistics: speech pathology, Evaluation, Diagnosis and Rehabilitation**. P. 181-219, Laboratory of Neuropsychology Publications, University of Thessaly, Volos, 2013
8. Karapetsas AB & Zygouris, NC, Electrophysiological techniques in the diagnosis of Language disorders, **in Contemporary Issues in neurolinguistics: speech pathology, Evaluation, Diagnosis and**

- Rehabilitation.** p. 152-180, Laboratory of Neuropsychology Publications, University of Thessaly, Volos, 2013
9. Karapetsas AB & Zygouris, N.C. Electrophysiological disorders in developmental dyslexia using Event Related Potentials: The role of P300 waveform in **Clinical Child Neuropsychology**. Amaryllis Malegiannaki, Lambros Messina, Panagiotis Papathanasopoulos, Editors, pp. 43-65, Publications Gotsis, Patra, 2012.
 10. Karapetsas AB & Zygouris, N.C. Neuropsychology of Learning Disabilities: Early detection and therapeutic intervention in **Clinical Neuropsychology. Prognosis, diagnosis, assessment, rehabilitation and therapy**. pp 195-221, Laboratory of Neuropsychology Publications, University of Thessaly, Volos, 2011.
 11. Karapetsas AB & Zygouris NC Event Related Potentials as an assessment tool in clinical neuropsychology in **Clinical Neuropsychology. Prognosis, diagnosis, assessment, rehabilitation and therapy**. pp 84-133, Laboratory of Neuropsychology Publications, University of Thessaly, Volos, 2011.
 12. Karapetsas AB & Zygouris NC The offer of Event Related Potentials in Clinical Neuropsychology, the **Scientific Analects, Anniversary Volume for 20 years University of Thessaly**. University of Thessaly, pp. 87-99.

SELECTED PRESENTATIONS IN INTERNATIONAL AND GREEK SCIENTIFIC CONFERENCES

1. Zygouris, N. C., Mpotsoglou K., Dadaliaris, Dimitriou, G., Tsontsios D, Vavougiou D.& Stamoulis, G.I. **Screening executive functions of preschool children via a web application**, In *International Conference on Interactive Collaborative Learning*. Accepted
2. Striftou A., Zygouris, N.C. & Stamoulis, G.I **Web delivered reading improvement battery of tasks**, In *International Conference on Interactive Collaborative Learning*. Accepted
3. Zygouris N.C. & Vlachos, F, **Neurophysiological evaluation of educational intervention in students with Dyslexia**, 1st Panhellenic Conference of the Neuropsychology of Hellenic Psychological Association, Patras, accepted

4. Zygouris N.C. & Vlachos, F, **Electrophysiological evaluation of intervention in children and adolescents with anxiety disorder**, 1st Panhellenic Conference of the Neuropsychology of Hellenic Psychological Association, Patras, accepted
5. Zygouris, N. C., Vlachos, F., Dadaliaris, A. N., Karagos, E., Oikonomou, P., Striftou, A. & Stamoulis, G. I. (2018, September). **New Tasks for a Dyslexia Screening Web Application**. In *International Conference on Interactive Collaborative Learning* (pp. 263-271). Springer, Cham.
6. Yfanti, T., Zygouris, N. C., Chondropoulos, I., & Stamoulis, G. I. (2018, September). **Internet Addiction and Anxiety Among Greek Adolescents: An Online Survey**. In *International Conference on Interactive Collaborative Learning* (pp. 813-823). Springer, Cham.
7. Soula, M., Zygouris, N. C., & Stamoulis, G. I. (2018, September). **Depressive Symptomatology of University Students Via a Web Application**. In *International Conference on Interactive Collaborative Learning* (pp. 514-519). Springer, Cham.
8. Papadopoulos, P. K., Zygouris, N. C., Koziri, M. G., Loukopoulos, T., & Stamoulis, G. I. (2017, November). **Mobivoke: A Mobile System Architecture to Support off School Collaborative Learning Process**. In *Interactive Mobile Communication, Technologies and Learning* (pp. 587-592). Springer, Cham.
9. Fatourou, E., Zygouris, N. C., Loukopoulos, T., & Stamoulis, G. I. (2017, September). **Evaluation of Early Introduction to Concurrent Computing Concepts in Primary School**. In *International Conference on Interactive Collaborative Learning* (pp. 543-552). Springer, Cham.
10. Zygouris, N. C., Stamoulis, G. I., Vlachos, F., Vavougiou, D., Dadaliaris, A. N., et al., (2017, April). **Screening for Disorders of Mathematics via a web application**. In *Global Engineering Education Conference (EDUCON), 2017 IEEE* (pp. 502-507). IEEE.
11. Zygouris, N. C., Striftou, A., Dadaliaris, A. N., Stamoulis, G. I., Xenakis, A. C., & Vavougiou, D. (2017, April). The use of Lego mindstorms in elementary schools. In *Global Engineering Education Conference (EDUCON), 2017 IEEE* (pp. 514-516). IEEE.

12. Charalambides, E., Zygouris, NC, Karapetsas,, B & Chatzieleftheriou, M. ***Anxiety disorders and cognitive functions: A neuropsychological research approach***, 22th National Congress of Psychiatry applications, 10 - April 13, 2014, Ioannina.
13. Zygouris, NC, Karapetsas, AB, Kriekoukis, M. & Dermitzaki E. ***The association's Standard Progressive Matrices with modern electrophysiological techniques: A survey based on neuropsychological assessment of children with high intelligence***. 22th National Congress of Psychiatry applications, 10 - April 13, 2014, Ioannina.
14. Karapetsas, AB, Zygouris, NC & Chatzieleftheriou MG, ***Pilot study of new assessment test in the detection of dyslexia***, 14th Panhellenic Conference of Psychological Research, 15 - 19/5, 2013, Alexandroupolis.
15. Zygouris, NC, Karapetsas, AB, Chatzieleftheriou; MG, Tsontzora, NE & Rigopoulou, WS ***The use of diagnostic techniques to identify auditory type of dyslexia in schoolchildren aged 6-12 years***, 14th Panhellenic Conference of Psychological Research, 15 - 19/5, 2013, Alexandroupolis.
16. Zygouris, NC, ***A Neuropsychological battery of tests in the assessment of children with dyslexia***, 3rd National Conference of Special Education, 11 - 04.14.2013, Athens.
17. Zygouris, NC, ***Electrophysiological techniques to evaluate the rehabilitation of children and adolescents with dyslexia. A research using the P300 waveform***, 3rd Panhellenic Conference of Developmental Psychology, 17-20 May, 2012.
18. Karapetsas, AB, Zygouris, NC & Volikakis, E.S.I., ***Using neuropsychological techniques in the evaluation of children with dyslexia***, 3rd Panhellenic Conference of Developmental Psychology, 17-20 Μαΐου, 2012.
19. Zygouris, NC, ***The use of Event Related Potentials in detecting gifted children***, 3rd National Conference of Science Education, 2-5 Ιουνίου, 2011.
20. Zygouris, NC, ***The contribution of imaging tools of brain activity in the assessment of anxiety disorders in children and adolescents. Research protocol using Event Related Potentials***, 13th Panhellenic Conference of Psychological Research, 25-29 May, 2011.

21. Zygouris, NC., *Electrophysiological identification of dyslexia: case studies from the laboratory to the classroom*, 2nd National Conference of Special Education, 15 - April 18, 2010, Athens.
22. Zygouris, NC, *The contribution of electrophysiology in the diagnosis of mood disorders in children and adolescents. Display results research protocol*, 12th Panhellenic Conference of Psychological Research, 14-17 May 2009 Volos.
23. Zygouris, NC, *Evaluation of visual attention using Event Related Potentials (ERPs)*, 13th International - 2nd World Conference of the APPAC, 20 - 23 May, Athens, Greece.

MEMBER OF INTERNATIONAL AND GREEK SCIENTIFIC ORGANIZATIONS

Hellenic Psychological Association

Society of Applied Neuroscience

Stress and Anxiety Research Society

European Association for Research on Adolescence

Hellenic Neuropsychological Association

International Association of Online Engineering

International Society for Engineering Pedagogy

Reviewer in Scientific Journals

Annals of General Psychiatry

Medical Imaging Process & Technology

International Journal of Engineering Pedagogy

IEEE World Engineering Education Conference

IEEE Global Engineering Education Conference (EDUCON)

International Conference on Interactive Collaborative Learning

International Conference on Interactive Mobile Communication, Technologies and Learning

Australian Journal of Learning Difficulties

