

Styliadis Charis

Neuroscience of Cognition and Affection group, Medical Physics Laboratory, School of Medicine, Faculty of Health Sciences, Aristotle University of Thessaloniki (AUTH), PO Box 376, 54124, Thessaloniki, Greece, Tel: +306942618582, email: styliadis@hotmail.com, skype: styliadis

Narrative report

I am an electronic engineer and postdoctoral researcher at the Medical Physics Laboratory of the Medical School of the Aristotle University of Thessaloniki (AUTH). I completed my BEng in Electronic Engineering with Medical Electronics at the University of Kent, UK, my MSc in Telecommunications and Computer Network Engineering at South Bank University, UK, and my PhD in Medical Informatics at AUTH, Greece. I have ten years of experience in magnetoencephalography (MEG) and electroencephalography (EEG), and a solid background in neuroscience, neurophysiology, and biomedical engineering. I received superb training in MEG technology at the laboratory for Human Brain Dynamics, RIKEN, BSI, in Japan. Throughout my doctoral training, I studied using MEG and EEG the emotional processing in cognitively healthy and pathological (mild cognitive impairment) aging as well as in the young population. I have been actively involved in the collection, preprocessing and analysis of neurophysiological data of cognitively healthy and cognitively declined populations across the entire lifespan. My research interests focus on emotional processing and emotional wellbeing, cognitive aging, developmental and degenerative disorders, and training-induced plasticity. I have a demonstrated record of accomplished and productive research projects in affective and cognitive neuroscience, funded by the European Union and the General Secretariat for Research & Technology, leading to 19 peer-reviewed articles in scientific journals, 2 book chapters and more than 30 contributions in international conferences with posters and oral presentations, while a figure of my work has been selected as the cover for a high impact scientific journal.

Education

- 2011-2015** **PhD** in Medicine
School of Medicine, Faculty of Health Sciences, AUTH, Greece
Thesis: Spatiotemporal analysis of the emotional processing in healthy and pathologic elderly individuals who have undergone cognitive and physical training
Supervisor: Panagiotis Bamidis
- 2000-2002** **MSc** in Telecommunications & Computer Network Engineering
School of Electrical, Electronic & Information Engineering, South Bank University, UK
MSc Project: Investigations into bandwidth restriction and data transfer rates of Asymmetric Digital Subscriber Lines (ADSL)
- 1997-2000** **BEng** in Electronic Engineering with Medical Electronics
School of Electrical & Electronic Engineering, University of Kent, UK
BEng Project: Nasal Anemometer. Development of a clinical instrument for use in speech therapy

Research experience

- 2016-today** **Postdoctoral Research Associate**
Medical Physics Laboratory, School of Medicine, Faculty of Health Sciences, AUTH
Main activities and responsibilities:
- Research on training-induced plasticity (cortical reorganization) in Developmental (Down's Syndrome) and Degenerative (Parkinson's Disease) disorders
 - Member of the Human Affectome Project team aiming to develop an integrated, holistic model for human emotion
 - Research on emotional processing in healthy aging as well as patients with mild cognitive impairment (MCI) and depression
 - Research on emotional face processing of adolescents with Autism Spectrum Disorder (ASD) in collaboration with Boston's Children's Hospital, USA and Hospital for Sick

Children, Canada

2012-2015

Research Associate/Co-Investigator

Medical Physics Laboratory, School of Medicine, Faculty of Health Sciences, AUTH

Main activities and responsibilities:

- Research on emotional processing in healthy aging and MCI patients
- Identify the indices of training-induced plasticity in MCI patients following combined computerized physical and cognitive training

2008-2012

Research Associate/Investigator

Lab of Medical Informatics, School of Medicine, Faculty of Health Sciences, AUTH

Main activities and responsibilities:

- Research on emotional processing in healthy adults
- Spatiotemporal MEG analysis

2007-2008

Visiting Technician

Laboratory for Human Brain Dynamics, Brain Science Institute (BSI), Institute of Chemical and Physical Research (RIKEN), Saitama, Japan

Main activities and responsibilities:

- Education in MEG methods and applications using a 151-channel CTF whole head MEG system (VSM MedTech Ltd.)
- Use of 3D Head and Electrode Digitizer (Fastrak Polhemus) for coregistration
- MEG data collection

2006-2007

Research Associate

Lab of Medical Informatics, School of Medicine, Faculty of Health Sciences, AUTH

Main activities and responsibilities:

- Education in EEG methods and applications

Teaching experience

2017-2018

Fellow, Lecturer

Introduction to Biomedical Technology (IAO263), School of Medicine, Faculty of Health Sciences, AUTH

Lectures: Affective Computing; Brain Computer Interfaces; Biomedical Technologies for Elderly Care; Neurofeedback; Multidisciplinary tools for smoking cessation; Neuroimaging and Nanoscience

Level: Undergraduate

Duration: 1 semester

2017- today

Guest Lecturing

Biomedical signal processing (IIB004), Inter-Faculty, AUTH

Lecture: Spatiotemporal MEG analysis

Level: Post-Graduate

Duration: 2 hours

Supervisor: Anthony Aletras

2014-today

Guest Lecturing

Complex Systems and Networks, Inter-Faculty, AUTH

Lecture: Affective Computing

Level: Post-Graduate

Duration: 2 hours

Supervisor: Panagiotis Bamidis

Guest Lecturing

Nanosciences and Nanotechnologies, Inter-Faculty, AUTH

Lecture: Neuroimaging and Nanoscience

Level: Post-Graduate

Duration: 2 hours
Supervisor: Panagiotis Bamidis

Professional experience in private sector

2004-2005 **Engineer of biomedical technology**
N. Papapostolou LTD, Medical Equipment Center, Thessaloniki, Greece

Military service

2003-2004 **Sergeant of Supply and Transportation Directorate**
Hellenic army

Funding

2019-2022 **European Commission, Information Society and Media Directorate General, HORIZON 2020**

Acronym: **HOPE**

Project Description: Automatic detection and localization of High frequency Oscillation in Paediatric Epilepsy

Project's objective: HOPE aims to optimize the detection and quantification of high frequency (>80Hz) brain electromagnetic activity using non-invasive techniques (MEG and EEG) for the pre-surgical diagnosis of epilepsy and in particular for the best possible detection of the epileptogenic zone of medically refractory epilepsy

Role: Co-Investigator (PIs: Klados Manousos, Panagiotis Bamidis)

2016-today **Neuroqualia**

Acronym: **Human Affectome Project**

Project Description: A global multidisciplinary collaboration in affective neuroscience to advance our understanding of human feelings, motivations, and related behaviors

Project's objective: This project aims in developing an integrated, holistic model for human emotion

Role: Co-Investigator - Member of the 'Happiness' taskforce (PIs: Rebecca Levin Siltan, Leroy Lowe)

2015-2018 **European Commission, Information Society and Media Directorate General, HORIZON 2020**

Acronym: **SmokeFreeBrain**

Project Description: Multidisciplinary tools for improving the efficacy of public prevention measures against smoking

Project's objective: SmokeFreeBrain aimed to address the effectiveness of a multi-level variety of interventions for smoking cessation in high risk target groups

Role: Coordinator of pharmacological intervention (PI: Panagiotis Bamidis)

2012-2015 **General Secretariat for Research & Technology, Reinforcement of the interdisciplinary and/or inter-institutional research and innovation THALES**

Acronym: **STHENOS**

Project Description: Interdisciplinary research in affective computing for biological activity recognition in assistive environments

Project's objective: This project aimed in the development of pervasive human-centered systems with the ability to understand the human state in assistive environments using audiovisual and biological signals to enable an interaction mainly based on synthetic audiovisual information

Role: Co-Investigator - Responsible for the analysis and interpretation of the EEG data for the neuroscientific approach to affective computing (PI: Ilias Maglogiannis)

2009-2012 **European Commission, Information Society and Media Directorate General**

Acronym: **LLM** (Long Lasting Memories)

Project Description: Develop and evaluate a unified solution for cognitive and physical health and the independent living of elder people

Project's objective: This project aimed in investigating the training-induced plasticity in healthy and pathological (mild cognitive impairment) aging as a result of physical exercise occurring in the context of cognitive challenges and correlating the cortical activations to indices of wellbeing (i.e. emotion)

Role: Co-Investigator - Responsible for the analysis and interpretation of the EEG data recorded from cognitively healthy and cognitively impaired elderlies (PI: Panagiotis Bamidis)

2006-2008

General Secretariat for Research & Technology, Transnational collaboration between Greece and Japan

Acronym: **AFFECTION**

Project's description: Multichannel physiological measurements for the adaptation of human-computer interface using emotions-induced experimental paradigms

Project's objective: This project aimed in the spatiotemporal investigation with MEG and EEG of emotional processing in human healthy adults while passively viewing affective pictorial stimuli

Role: Investigator - Responsible for the collection, analysis and interpretation of the MEG data (PI: Panagiotis Bamidis)

Co-authoring of other funded projects

INADVANCE: Patient-centred pathways of early palliative care, supportive ecosystems and appraisal standard. H2020, 2018/0223

Relief: Recovering life Wellbeing through Pain self-management Techniques involving ICT - H2020-PHC-2015-single-stage

Currently unfunded projects

2016-today

Affective Cerebellum, Personal collaboration with Boston's Children's Hospital, USA and Hospital for Sick Children, Canada

Project Description: Research on emotional face processing of adolescents with Autism Spectrum Disorder (ASD)

Project's objective: This projects aims in the investigation of the role of cerebellar abnormalities in the emotional dysfunction of ASD

Role: Co-Investigator - Responsible for the analysis and interpretation of the MEG data recorded from the ASD adolescents (PIs: Christos Papadelis, Margot Taylor)

2016-today

LifeSpanNeuroPlasticity

Project Description: The evolution of neuroplasticity along the lifespan of pathological population groups and its relation to cognitive and/or physical training

Project's objective: This project aims in investigating the training-induced plasticity (cortical reorganization) in Developmental (Down's Syndrome) and Degenerative (Parkinson's Disease) disorders

Role: Co-Investigator - Responsible for the collection, analysis and interpretation of the EEG data recorded from the pathological populations (PI: Panagiotis Bamidis)

Publications in peer reviewed journals

[Google scholar](#) citation count (17/2/2019): 432; h-index: 10

[Scopus](#) citation count (17/2/2019): 273; h-index: 8

Total impact factor (IF): 45.1

2019

1. Alexander, R., Aragon, O., Bookwala, J., Cherbuin, N., Gatt, J.M., Kahrilas, I.J., Kastener, N., Lawrence, A., Lowe, L., Morrison, R.G., Mueller, S.C., Papadelis, C., Polnaszek, K.L., Richter,

S.H., Silton, R.L., **Styliadis, C.** Happiness and wellbeing: A review of human and animal research. *Neuroscience & Biobehavioral Reviews* (**under review**). *authorship is alphabetical

2018

2. **Styliadis, C.**, Ioannides, A. A., Bamidis, P. D., Papadelis, C. (2018). Mapping the Spatiotemporal Evolution of Emotional Processing: An MEG Study Across Arousal and Valence Dimensions. *Frontiers in human neuroscience*, 12, 322. <https://doi.org/10.3389/fnhum.2018.00322>. IF: 2.871
3. Athanasiou, A., Klados, M. A., **Styliadis, C.**, Foroglou, N., Polyzoidis, K., Bamidis, P. D. (2018). Investigating the role of alpha and beta rhythms in functional motor networks. *Neuroscience*, 378, 54-70. doi: [10.1016/j.neuroscience.2016.05.044](https://doi.org/10.1016/j.neuroscience.2016.05.044). IF: 3.382
4. Pandria, N., Athanasiou, A., Terzopoulos, N., Paraskevopoulos, E., Karagianni, M., **Styliadis, C.**, Kourtidou-Papadeli, C, Pataka, A., Lymperaki, A., Bamidis, P. D. (2018). Exploring the neuroplastic effects of biofeedback training on smokers. *Behavioural neurology*. <https://doi.org/10.1155/2018/4876287>. IF: 1.311

2017

5. Adamaszek, M., D'Agata, F., Ferrucci, R., Habas, C., Keulen, S., Kirkby, K. C., ... & **Styliadis, C.**, Verhoeven, J. (2017). Consensus Paper: Cerebellum and Emotion. *The Cerebellum*, 1-25. doi: [10.1007/s12311-016-0815-8](https://doi.org/10.1007/s12311-016-0815-8). IF: 3.199

2016

6. Klados, M.A.*, **Styliadis, C.***, Frantzidis C.A., Paraskevopoulos, E., Bamidis, P. D. (2016). Beta – band functional connectivity is re-organized in MCI after combined computerized physical and cognitive training. *Frontiers in Neuroscience*, 10, 55. <https://doi.org/10.3389/fnins.2016.00055>. *joint first authorship. IF: 3.568

2015

7. **Styliadis, C.**, Ioannides, A. A., Bamidis, P. D., Papadelis, C. (2015). Distinct cerebellar lobules process arousal, valence and their interaction in parallel following a temporal hierarchy. *NeuroImage*. 110, 149-161. <https://doi.org/10.1016/j.neuroimage.2015.02.006>. IF: 5.463
8. **Styliadis, C.***, Kartsidis, P.*, Paraskevopoulos, E., Ioannides, A., Bamidis, P. D. (2015). Neuroplastic Effects of Combined Computerized Physical and Cognitive Training in Elderly Individuals at Risk for Dementia: An eLORETA Controlled Study on Resting States. *Neural Plasticity*, <http://dx.doi.org/10.1155/2015/172192>. *joint first authorship. IF: 3.566

2014

9. **Styliadis, C.**, Ioannides, A. A., Bamidis, P. D., Papadelis, C. (2014). Amygdala responses to valence and its interaction by arousal revealed by MEG. *International Journal of Psychophysiology*, 93(1), 121-33. <https://doi.org/10.1016/j.ijpsycho.2013.05.006>. IF: 2.8828
10. Bamidis, P. D., Vivas, A. B., **Styliadis, C.**, Frantzidis, C., Klados, M., Schlee, W., Siountas, A., Papageorgiou, S. G. (2014). A review of physical and cognitive interventions in aging. *Neuroscience & Biobehavioral Reviews*, 44, 206-20. <https://doi.org/10.1016/j.neubiorev.2014.03.019>. IF: 8.802

2013

11. **Styliadis, C.**, Papadelis, C., Konstantinidis, E., Ioannides, A. A., Bamidis, P. (2013). An MEG compatible system for measuring skin conductance responses. *Journal of neuroscience methods*, 212(1), 114-123. <https://doi.org/10.1016/j.jneumeth.2012.09.026>. IF: 2.025

2011

12. Vassilikos, V., Dakos, G., Chatzizisis, Y. S., Chouvarda, I., Karvounis, C., Maynard, C., Maglaveras, N., Paraskevaidis, S., Stavropoulos, G., **Styliadis, C. I.**, Mochlas, S., Styliadis, I. (2011). Novel non-invasive P wave analysis for the prediction of paroxysmal atrial fibrillation recurrences in patients without structural heart disease: a prospective pilot study. *International Journal of Cardiology*, 153(2), 165-172. <https://doi.org/10.1016/j.ijcard.2010.08.029>. IF: 7.078
13. Pechlivanidis, G., Mantziari, L., Giannakoulas, G., Dimitroula, H., **Styliadis, H.**, Karvounis, H., Styliadis, I. H., Parharidis, G. (2011). Effects of renin-angiotensin system inhibition on right

ventricular function in patients with mild essential hypertension. *Journal of Renin-Angiotensin-Aldosterone System*, 12(3), 358-364. <https://doi.org/10.1177/1470320310391334>. IF: 2.439

14. Soulis, J. V., Fytanidis, D. K., Papaioannou, V. C., **Styliadis, H.**, Giannoglou, G. D. (2011). Oscillating LDL accumulation in normal human aortic arch-shear dependent endothelium. *Hippokratia*, 15(1), 22. PMID: [21607031](https://pubmed.ncbi.nlm.nih.gov/21607031/). IF: 0.525

2010

15. Vassilikos, V. P., Vogas, V., Giannakoulas, G., Mantziari, L., Lekka, I., Dimitrakopoulos, K., Paraskevaïdis, S., Konias, S., Maglaveras, N., Chouvarda, I., **Styliadis, H.**, Styliadis, I. H. (2010). The use of transtelephonic loop recorders for the assessment of symptoms and arrhythmia recurrence after radiofrequency catheter ablation. *Telemedicine and e-Health*, 16(7), 792-798. <https://doi.org/10.1089/tmj.2010.0018>. IF: 1.297
16. Dimitroula, H., Damvopoulou, E., Giannakoulas, G., Dalamanga, E., Dimitroulas, T., Sarafidis, P. A., **Styliadis H.**, Hatzitolios, A., Karvounis, H., Parcharidis, G. (2010). Effects of Renin-Angiotensin System Inhibition on Left Atrial Function of Hypertensive Patients: An Echocardiographic Tissue Deformation Imaging Study. *American journal of hypertension*, 23(5), 556-561. <https://doi.org/10.1038/ajh.2010.4>. IF: 3.129

2008

17. Bamidis, P. D., Konstantinidis, S., Papadelis, C. L., Perantoni, E., **Styliadis, C.**, Kourtidou-Papadeli, C., Kourtidou-Papadeli, C., Pappas, C. (2008). An e-learning platform for Aerospace Medicine. *Hippokratia*, 12(Suppl 1), 15. PMID: [19048088](https://pubmed.ncbi.nlm.nih.gov/19048088/)
18. Mantziari, L., **Styliadis, C.**, Kourtidou-Papadeli, C., Styliadis, I. (2008). Arrhythmias, Sudden Cardiac Death and incapacitation of pilots. *Hippokratia*. *Hippokratia*, 12(Suppl 1), 53. PMID: [19050752](https://pubmed.ncbi.nlm.nih.gov/19050752/)
19. Kourtidou-Papadeli, C., Papadelis, C., Koutsonikolas, D., Boutzioukas, S., **Styliadis, C.**, Guiba-Tziampiri, O. (2008). High altitude cognitive performance and COPD interaction. *Hippokratia*, 12(Suppl 1), 84. PMID: [19048098](https://pubmed.ncbi.nlm.nih.gov/19048098/)

Book chapters

2017

1. Xeferis, S., Konstantinidis, E., Billis, A. S., Antoniou, P. E., **Styliadis, C.**, Paraskevopoulos, E., Kartsidis, P. E., Frantzidis, C. A., Bamidis, P. D. (2017). Early Detection of Dementia: Advances, Challenges, and Future Prospects. In J. Wu (Ed.), *Improving the Quality of Life for Dementia Patients through Progressive Detection, Treatment, and Care* (pp. 74-106). Hershey, PA: IGI Global. doi:[10.4018/978-1-5225-0925-7.ch004](https://doi.org/10.4018/978-1-5225-0925-7.ch004), ISBN13: 9781522509257

2015

2. **Styliadis, C.**, Kartsidis, P., Paraskevopoulos, E. (2015). Neuroimaging approaches for elderly studies. In Bamidis, P. D., Tarnanas, I., Hadjileontiadis, L., Tsolaki, M. (2015). *Handbook of Research on Innovations in the Diagnosis and Treatment of Dementia* (pp. 1-439). Hershey, PA: IGI Global. <http://dx.doi.org/10.4018/978-1-4666-8234-4>.

Conference contributions

2018

1. **Styliadis C.**, Frantzidis, C. (2018). [Sleep macro-architectures during pharmacological smoking cessation interventions](#). 3rd International Conference of the European Network for Smoking and Tobacco Prevention. 14-16 June 2018, Madrid, Spain (**Invited Talk**)
2. Frantzidis C., Gkivogkli P., Plomariti C., Chriskos P., **Styliadis C.**, Karagianni M., Kostakis E., Nday C., Paraskevopoulos E., Pataka A., Kourtidou-Papadeli C., Bamidis P.D. (2018). [How varenicline affects sleep quality and functional connectivity? A polysomnographic evaluation](#). *Tob. Prev. Cessation* 2018;4 (Supplement): A35. doi:[10.18332/tpc/91859](https://doi.org/10.18332/tpc/91859)
3. Pandria N., Athanasiou A., Terzopoulos N., Paraskevopoulos E., Karagianni M., **Styliadis C.**, Kourtidou-Papadeli C., Pataka A., Lymperaki E., Bamidis P.D. (2018). [Does biofeedback training](#)

[promote neuroplastic changes in smokers? A preliminary study](#). 1st Scientific Summit “Tobacco Harm Reduction: Novel products, Research & Policy”. June 8, 2018. Kalithea, Greece.

4. Chalas N., Paraskevopoulos E., Kartsidis P., **Styliadis C.**, Bamidis P. (2018). [An M/EEG analysis pipeline for event related source connectivity estimation](#). World Congress on Medical Physics & Biomedical Engineering IUPESM 2018, 3-8 June, 2018, Prague, Czech Republic
5. Frantzidis C., Gkivogkli P., **Styliadis C.**, Paraskevopoulos E., Chriskos P., Gilou S., Plomariti C., Pandria N., Karagianni M., Fotopoulos D., Ntakakis G., Bamidis P.D., Kourtidou-Papadeli C. (2018). [Recent advances in sleep neuroscience for extreme environments and its terrestrial applications](#). World Congress on Medical Physics & Biomedical Engineering IUPESM 2018, 3-8 June, 2018, Prague, Czech Republic
6. **Styliadis, C.**, Ioannides, A. A., Bamidis, P. D., Papadelis, C. (2018). [Mapping the spatiotemporal evolution of emotional processing](#). The International and European Societies of Magnetoencephalography: 50 Years of MEG. 20-21 April 2018, Poros, Greece

2017

7. Frantzidis C., **Styliadis C.**, Paraskevopoulos E., Gkivogkli P., Chriskos P., Pandrias D., Pandria N., Spachos D., Kartsidis P., Karagianni M., Athanasiou A. Kalamaras G., Panera A, Sidiropoulos S., Kovatsi L.K., Kapoukranidou D., Lyberaki E., Iliadis S., Makedou K., Kourtidou-Papadeli C., Siountas A., Pataka A., Argyropoulou-Pataka P., Bamidis P.D. (2017). [Contemporary methods for smoking cessation, based on neurosciences: The SmokeFreeBrain project](#) (Originally in Greek). 26th Panhellenic Pulmonary Congress. November 9-12, Athens, Greece.
8. Kartsidis, P., **Styliadis, C.**, Karagianni, M., Zilidou, V., Konstantinidis, E., Katsarou, Z., Bostantjopoulou, S., Hadjileontiadis, L. J., Bamidis, P.D. (2017). [Neuroprotective effects of physical activity in Parkinson’s disease: a resting state EEG study on the WebFitForAll efficacy](#). 7th Panhellenic Conference on Biomedical Technologies, 7 April, 2017, Athens, Greece

2016

9. **Styliadis, C.**, Paraskevopoulos, E., Bamidis, P.D. (2016). [Cortical source imaging of emotional processing in physiological and pathological aging](#). Front. Hum. Neurosci. Conference Abstract: SAN2016 Meeting. doi: 10.3389/conf.fnhum.2016.220.00082
10. **Styliadis, C.**, Vivas, A.B., Zacharopoulos, C., Zilidou, V.I., Paraskevopoulos, E., and Bamidis, P.D. (2016). [Valence, and arousal ratings for Hellenic words by young, middle-aged, and older adults](#). Front. Hum. Neurosci. Conference Abstract: SAN2016 Meeting. doi: 10.3389/conf.fnhum.2016.220.00102
11. **Styliadis, C.**, Paraskevopoulos, E., Papageorgiou, S. G., Bamidis, P. D. (2016). [Cortical connectivity of emotional processing changes as a function of cognitive impairment in pathological aging](#). 14th International Athens/Springfield Symposium on Advances in Alzheimer Therapy (AAT), 9-12th March, Athens, Greece
12. Chasiotou, V., **Styliadis, C.**, Romanopoulou, E., Bratsas, C., Bamidis, P.D. (2016). [Statistical evaluation of intentions of adults towards smoking advertisements](#). Front. Hum. Neurosci. Conference Abstract: SAN2016 Meeting. doi: 10.3389/conf.fnhum.2016.220.00098
13. Xefteris, S., **Styliadis, C.**, Romanopoulou, E., Bamidis, P.D. (2016). [Behavioral effects of smoking advertisements on adults’ affective response towards tobacco products](#). Front. Hum. Neurosci. Conference Abstract: SAN2016 Meeting. doi: 10.3389/conf.fnhum.2016.220.00108
14. Billis, A., **Styliadis, C.**, Baka, M., Arfaras, G. Bamidis, P.D. (2016). [Affective neuroscience/computing approaches in evaluating an interactive educational tool to counteract bullying](#). Front. Hum. Neurosci. Conference Abstract: SAN2016 Meeting. doi: 10.3389/conf.fnhum.2016.220.00091

2015

15. **Styliadis, C.**, Paraskevopoulos, E., Bamidis, P. D. (2015). [Cortical connectivity of emotional processing among young and older adults](#). FENS Featured Regional Meeting (FFRM), 7-10th October, Thessaloniki, Greece

16. Bamidis, P. D., **Styliadis, C.**, Paraskevopoulos, E., Frantzidis C. (2015). Analysing data from affective neuroscience protocols. FENS Featured Regional Meeting (FFRM), 7-10th October, Thessaloniki, Greece

2014

17. **Styliadis, C.**, Ioannides, A. A., Bamidis, P. D., Papadelis, C. (2014). [Arousal and valence influence on spatiotemporal patterns of brain activity elicited by visual affective stimuli](#). 19th International Conference on Biomagnetism, BIOMAG, 24-28 August, 2014, Halifax, Canada
18. **Styliadis, C.**, Ioannides, A. A., Bamidis, P. D., Papadelis, C. (2014). [Distinct cerebellar lobules encode arousal and valence in specific time windows: an MEG study](#). Organization for Human Brain Mapping, OHBM, 8-12 June 2014, Hamburg, Germany (**Invited Talk**)
19. **Styliadis, C.**, Ioannides, A. A., Bamidis, P. D., Papadelis, C. (2014). [Segregation of Emotional Function in Subcortical Structures: MEG Evidence](#). In XIII Mediterranean Conference on Medical and Biological Engineering and Computing 2013 (pp. 403-406). Springer International Publishing. doi: 10.1007/978-3-319-00846-2_100
20. Klados, M. A., **Styliadis, C.**, Bamidis, P. D. (2014). [A Short Review on Emotional Recognition Based on Biosignal Pattern Analysis](#). In XIII Mediterranean Conference on Medical and Biological Engineering and Computing 2013 (pp. 787-790). Springer International Publishing. doi: 10.1007/978-3-319-00846-2_195
21. **Styliadis, C.**, Konstantinidis, E., Billis, A., Bamidis, P. (2014). [Employing affection in elderly healthcare serious games interventions](#). In Proceedings of the 7th International Conference on Pervasive Technologies Related to Assistive Environments (p. 32). ACM. doi: 10.1145/2674396.2674456
22. **Styliadis, C.**, Ioannides, A. A., Bamidis, P. D., Papadelis, C. (2014). Sub-regional functional specificity of sub-cortical structures underlying emotional valence and arousal: MEG evidence. SAN Meeting 30 January-2 February 2014, Utrecht, Netherlands

2013

23. **Styliadis, C.**, Klados, M. A., Konstantinidis, E.I., Billis, A., Bamidis, P. D. (2013). [Spatiotemporal activity in affection and its disorders: The STHENOS approach](#). 5th Panhellenic Conference on Biomedical Technologies, 4-6 April, 2013, Athens, Greece
24. Klados, M. A., **Styliadis, C.**, Frantzidis, C., Konstantidis, E., Mpillias, A., Bamidis, P.D. (2013). [Neurofeedback and Affective Disorders](#). 5th Panhellenic Conference on Biomedical Technologies, 4-6 April, 2013, Athens, Greece
25. Billis, A., Papageorgiou, E.I., Frantzidis, C., Konstantinidis, E. I., Astaras, A., Klados, M.A., **Styliadis, C.**, Bamidis, P.D. (2013). [Towards unobtrusive sensor based decision support system for independent living: The case of the USEFIL project](#). 5th Panhellenic Conference on Biomedical Technologies, 4-6 April, 2013, Athens, Greece

2012

26. **Styliadis, C.**, Ioannides, A. A., Bamidis, P. D., Papadelis, C. (2012). [The role of cerebellum in the temporal regulation of emotional processing](#). 18th International Conference on Biomagnetism, BIOMAG, 26-30 August, 2012, Paris, France
27. Lithari, C., Bamidis, P., Fragou, D., **Styliadis, H.**, Braun, C., Papadelis, C. (2012). [Acute alcohol intake affects the emotional responses in human brain](#). 18th International Conference on Biomagnetism, BIOMAG, 26-30 August, 2012, Paris, France
28. **Styliadis, C.**, Papadelis, C., Bamidis, P. D., Ioannides, A. A. (2012). Emotion and cognitive and physical training, 1st Conference on Neuropsychology for the "THIRD AGE", 18-21 October 2012, Thessaloniki, Greece (**Invited Talk**)

2011

29. **Styliadis, C.**, Papadelis, C., Bamidis, P. D., Ioannides, A. A. (2011). Gender differences across valence and arousal. SAN Meeting 5-8 May 2011, Thessaloniki, Greece (**Invited Talk**)
30. **Styliadis, C.**, Papadelis, C., Bamidis, P. D., Ioannides, A. A. (2011). Neuroimaging of emotion on healthy participants. 7th Panhellenic Conference on Alzheimer's Disease and Related Disorders, 16-20 February 2011, Thessaloniki, Greece (**Invited Talk**)

2010

31. **Styliadis, C.**, Papadelis, C., Bamidis, P. D. (2010, January). [Neuroimaging of emotional activation: Issues on Experimental Methodology, Analysis and Statistics](#). In XII Mediterranean Conference on Medical and Biological Engineering and Computing 2010 (pp. 434-437). Springer Berlin Heidelberg. doi: 10.1007/978-3-642-13039-7_109

2008

32. Kourtidou-Papadeli, C., Papadelis, C., Bamidis, P.D., Vlachogiannis, E., **Styliadis, C.**, Perantoni E. (2007). [Cognitive performance of pilots with mild obstructive pulmonary disease under mental stress and hypoxia](#). 5th International Meeting of Aerospace Medicine & 6th Workshop of Clinical Aviation, 29th August - 2nd September, 2007, Skiathos, Greece

Distinctions

Cover in journal: a figure of the paper ‘Distinct cerebellar lobules process arousal, valence and their interaction in parallel following a temporal hierarchy’ was selected by the editorial board of NeuroImage as cover of the journal issue [110](#)

Other scientific activity

Member of scientific organizations and societies

Human Affectome Project, Neuroqualia, Nova Scotia, Canada
Hellenic Society of Biomedical Technology (ELEVIT), Athens, Greece
Neuroscience of Cognition and Affection group (NCA), Thessaloniki, Greece
Group of Applied and Affective Neuroscience (GAAN), Thessaloniki, Greece

Member of conference organizing committee

30th International Symposium on Computer-Based Medical Systems - CBMS 2017, Thessaloniki, Greece
Society for Applied Neuroscience conference 2016, 6-9 October 2016, Corfu, Greece
Society for Applied Neuroscience conference 2011, 5-8 May 2011, Thessaloniki, Greece

Reviewer in scientific journals

PLOS One, Frontiers in Aging Neuroscience, Frontiers in Human Neuroscience, Neuroscience, International journal of Psychophysiology, Psychiatry Research: Neuroimaging

Mentoring

Informal supervision (Supervisor: Panagiotis Bamidis)

PhD students: Panagiotis Kartsidis, Niki Pandria

MSc student: Chrysa Karali

Graduate student: Alexandra Anagnostopoulou, Christonikos Zacharopoulos

Research interests

MEG/EEG, Affective and Cognitive Neuroscience, Emotional Processing and Emotional Wellbeing, Cognitive Aging, Developmental and Degenerative Disorders, Training-Induced Plasticity

Computer skills

BESA (Research, MRI, Statistics), Brainstorm, CTF Software Suite, EEGLAB, SPM (Anatomy, Brain Connectivity Toolbox, Network based Statistics Toolbox), Matlab, SPSS, Neurobs Presentation, Linux, Mac OS, Windows, Microsoft Office, Corel Draw Suite, Photoshop

Languages

Native language: **Greek**

Other language: **English (Certificate of Lower in English)**

| Self-assessment European level (*) | Understanding | | Speaking | | Writing |
|--|---------------|-----------|-----------------------|----------------------|-----------|
| | Listening | Reading | Spoken interaction | Spoken production | |
| English | Excellent | Excellent | Excellent | Excellent | Excellent |

(* *Common European Framework of Reference for Languages*)

References

Christos Papadelis, PhD, Laboratory of Children's Brain Dynamics, Fetal-Neonatal Neuroimaging and Developmental Science Center, Division of Newborn Medicine, Boston Children's Hospital, Harvard Medical School, Boston, MA, United States. christos.papadelis@childrens.harvard.edu

Panagiotis Bamidis, PhD, Neuroscience of Cognition and Affection group, Medical Physics Laboratory, Medical School, Faculty of Health Sciences, AUTH, PO Box 376, 54124, Thessaloniki, GREECE. bamidis@med.auth.gr

Andreas Ioannides, PhD, Laboratory for Human Brain Dynamics, AAI Scientific Cultural Services Ltd., Office 501, Galaxias Building Block A, 33 Arch. Makarios III Avenue, 1065, Nicosia, CYPRUS. a.ioannides@aaiscs.com